

June 22, 2020

Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP)

Natural Heritage Review

2148 Riverside Drive
Jackson, Mississippi 39202
Phone: (601) 576-6000

RE: **Tillman Infrastructure – Centreville / Client #TI-OPP-15700 – Trileaf Project #667672**
1396 Old Hospital Road, Centreville, Mississippi 39631
Wilkinson County, Centreville Quadrangle (USGS)
Latitude: 31° 04' 12.44" N, Longitude: 91° 03' 42.42" W

To Whom It May Concern:

Trileaf Corporation is in the process of completing a NEPA Review at the referenced property. Our client proposes to construct a 310-foot Self-Support Communications Tower, with an overall height of 335-feet, within a 100-foot by 100-foot lease area which will contain an 80-foot by 80-foot fenced area. The project includes a 30-foot wide access/utility easement that extends east from the eastern portion of the lease area for 57 feet before terminating at Old Hospital Road. A 16-foot cattle gate and 12-foot-wide gravel access road will be installed within the access/utility easement. Associated equipment including an equipment cabinet and a generator will be installed within a 15-foot by 20-foot lease space southeast of the tower within the 100-foot by 100-foot lease area. An ice bridge will extend from the equipment cabinet to the tower. The proposed tower compound lease area and the access/utility easement will be located on a sparsely wooded grass field. The antenna will be licensed by the Federal Communications Commission (FCC).

Our investigation includes determining if any of the following special resource areas are located at the site.

1. Is the site located in or on a wilderness area or wildlife preserve?
2. Is the site located within a principal migratory bird flyway?
3. Is the site located in or on a designated critical habitat?
4. Does the site sustain any species of plant or animal life that is designated or proposed as threatened or endangered?

As noted in the enclosed Informal Biological Assessment, neither the species nor their habitats have been observed within the action area. Therefore, based on the documents reviewed, no threatened/endangered species or designated critical habitat will be impacted by the proposed project.

Trileaf is requesting concurrence from the MDWFP with the finding of “no effect” to threatened and endangered species, critical habitat, or other special resources. If you need additional information or have any questions you may reach me at (512) 519-9388 or a.santucci@trileaf.com. Thank you for your assistance in this regard.

Sincerely,



Alicia Santucci
Project Scientist

Informal Biological Assessment

Tillman Infrastructure

Project Name: Centreville / Client #TI-OPP-15700 - Trileaf #667672

Latitude: 31-04-12.44 N; Longitude: 91-03-42.42 W

Trileaf performed an Informal Biological Assessment for the subject site. The purpose is to document whether the proposed undertaking will affect listed or proposed threatened or endangered species, designated critical habitats, wetlands, and migratory birds. A project description, site photographs and topographical site location maps are included in this report.

Proposed Project Description:

The Site is located at 1396 Old Hospital Road, Centreville, Wilkinson County, Mississippi 39631, and consists of the construction of a 310-foot Self-Support Communications Tower, with an overall height of 335-feet, within a 100-foot by 100-foot lease area which will contain an 80-foot by 80-foot fenced area. The project includes a 30-foot wide access/utility easement that extends east from the eastern portion of the lease area for 57 feet before terminating at Old Hospital Road. A 16-foot cattle gate and 12-foot-wide gravel access road will be installed within the access/utility easement. Associated equipment including an equipment cabinet and a generator will be installed within a 15-foot by 20-foot lease space southeast of the tower within the 100-foot by 100-foot lease area. An ice bridge will extend from the equipment cabinet to the tower. The proposed tower site is approximately 369.4 feet above mean sea level.

Site and Surrounding Habitat:

The Site is currently located within a partially wooded grass field. During the area reconnaissance, multiple trees along the access road were identified to be removed. A tree survey was not conducted, however using the provided photographs it is assumed that the stand is a young deciduous stand with an average diameter at breast height (DBH) of 10 inches. Species identified for removal include Loblolly Pine (*Pinus taeda*) and Red Oak (*Quercus rubra*).

The surrounding habitat within a 0.5 mile radius of the proposed site consists predominantly of partially wooded grassy areas and scattered residential development. To the north is a large partially wooded grassy area containing a pond, followed by Old Hospital Road and scattered residential development. To the east is Old Hospital Road, followed by a mixture of partially wooded grassy areas and scattered residential development, followed by a riverine. To the south is a grassy area, followed by Honeysuckle Drive, followed by an undeveloped tract of land, followed by Dogwood Lane, followed by a large wooded area. To the west is a large grassy area, followed by Hunter Lane, followed by a large partially wooded grassy area containing a riverine. The current habitat is not mapped as critical habitat, nor does it qualify as sufficient habitat for Federal or State listed species.

Wetlands:

Trileaf has reviewed the topographic map, soil composition, as well as the National Wetlands Inventory Map to determine if the proposed lease area and easements would have an impact on any wetlands or require significant amounts of fill or grading. Trileaf determined that the site is not located in a recognized national wetland area.

Trileaf performed a field visit and identified surface water bodies. Using local maps in combination with an area reconnaissance the following water bodies within a 0.5 mile radius of the site have been identified in the table below:

Water Body Type	Water Body Name	Direction from Tower	Distance from Tower
Riverine	Unnamed	NE, E, SE	0.16 miles
Riverine	Unnamed	NW, W, SW	0.36 miles
Freshwater Pond	Unnamed	NE	0.44 miles
Freshwater Pond	Unnamed	NE	0.46 miles
Freshwater Pond	Unnamed	W	0.46 miles

Migratory Birds:

The proposed Site and design process for this project could not conform to all the USFWS recommendations to decrease potential effects on migratory birds. Therefore, it has included mitigating factors such as tower placement within minimally sensitive areas, avoiding placement near wetlands and large water bodies, and eliminating the need for guy wires or FAA obstruction lighting. While the proposed Site is located in the Mississippi and Central flyways, our site investigation has determined that the project area is not located in an NWI mapped wetland, waterway, wildlife refuge, national wilderness area, native grassland or forest area, ridge-line, mountain top, coastline or area commonly known to have high incidences of fog or low clouds, where migratory birds may be found. Based upon the efforts undertaken during this IBA as well as the current data made available, we have concluded that this project will not have a significant effect on migratory birds; however, the presence of migratory birds cannot be ruled out.

Soils:

According to the U.S. Soil Conservation Service Soil Survey of Wilkinson County, Mississippi, the Site is underlain by Providence silt loam, 2 to 5 percent slopes, eroded, and Providence silt loam, 5 to 8 percent slopes, eroded.

Providence silt loam soils consist of moderately well drained soils that are formed from silty loess over sandy marine deposits and are found on loess hills. The depth to the most restrictive feature is 18 to 26 inches to fragipan. The depth to the water table is about 12 to 24 inches. A typical profile of Providence silt loam soils consists of a surface layer silt loam extending from 0 to 3 inches, followed by three (3) distinct and separate subsurface layers of silt loam extending from 3 to 7 inches, 7 to 23 inches, and 23 to 52 inches, followed by a subsurface layer of sandy loam extending from 53 to 79 inches. Providence silt loam, 2 to 5 percent slopes, eroded, and Providence silt loam, 5 to 8 percent slopes, eroded, are not considered hydric soils, and no hydrophytic vegetation or surface water was observed.

Threatened or Endangered Species:

Trileaf has researched the listed or proposed threatened or endangered species and designated critical habitat for the project area. This includes any such species that have been reported to exist within the action area where the project is located. The list of federally threatened or endangered species was acquired through the U.S. Fish and Wildlife Service's Information, Planning, and Consultation system (IPaC). The state list of threatened or endangered species was acquired from the Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP) and is broken down by county. The lease area is not located within an aquatic environment; therefore any obligate aquatic species should not be directly impacted by this project and are not included in the table below. A list of remaining species and site observations are summarized in the following table:

Species / Resource Name	Federal / State Status	Habitat Description	Recommendation of Effect	Notes / Documentation
Wood Stork (<i>Mycteria americana</i>)	Federal- Threatened	Cypress strands and domes, mixed hardwood swamps, sloughs, and mangroves	No effect	Habitat assessment indicated no potential habitat present within the limits of the lease area
Red-cockaded Woodpecker (<i>Picoides borealis</i>)	State- Endangered	Nests in cavities created in mature, live pine trees with a DBH greater than 10 inches, with little hardwood component; prefers longleaf pines	No effect	Habitat assessment indicated no potential habitat present within the limits of the lease area

Conclusions:

Based on the efforts undertaken during our IBA, project specifications and the current data made available, we have concluded that there is no potential for the proposed project to have a significant effect on listed or proposed, threatened and endangered species, their designated critical habitat, or migratory birds.

It should be noted that this informal biological assessment was conducted in accordance with the Scope of Work and does not constitute a Section 7 Biological Assessment under the Endangered Species Act (50 CFR Part 402.01).



Alicia Santucci
Natural Resource Specialist

Centreville Quadrangle, Mississippi (2018)

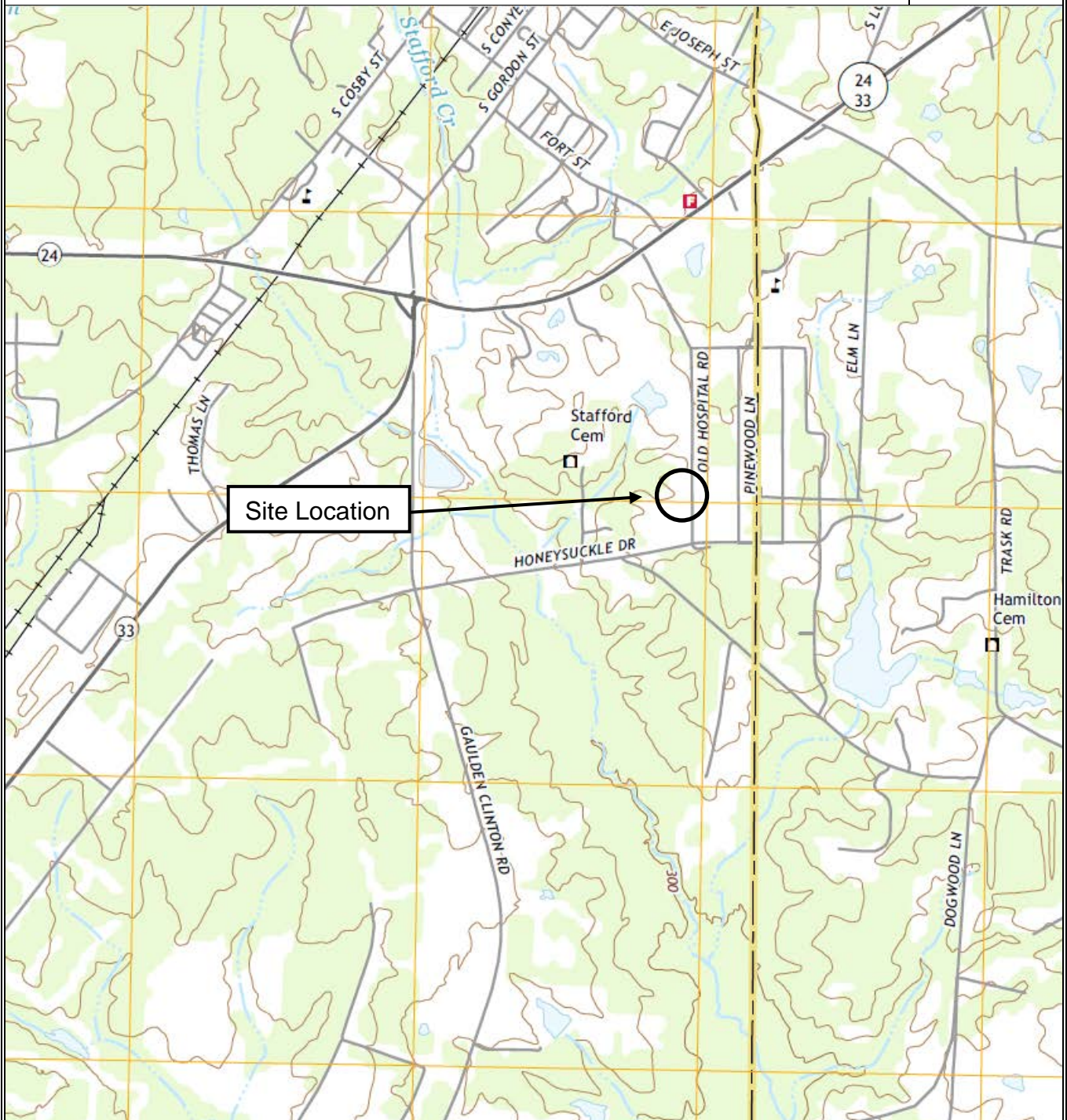
Contour Interval = 20 Feet

Latitude: 31° 04' 12.44" N Longitude: 91° 03' 42.42" W

Township: T1N Range: R1E Section: S18



North



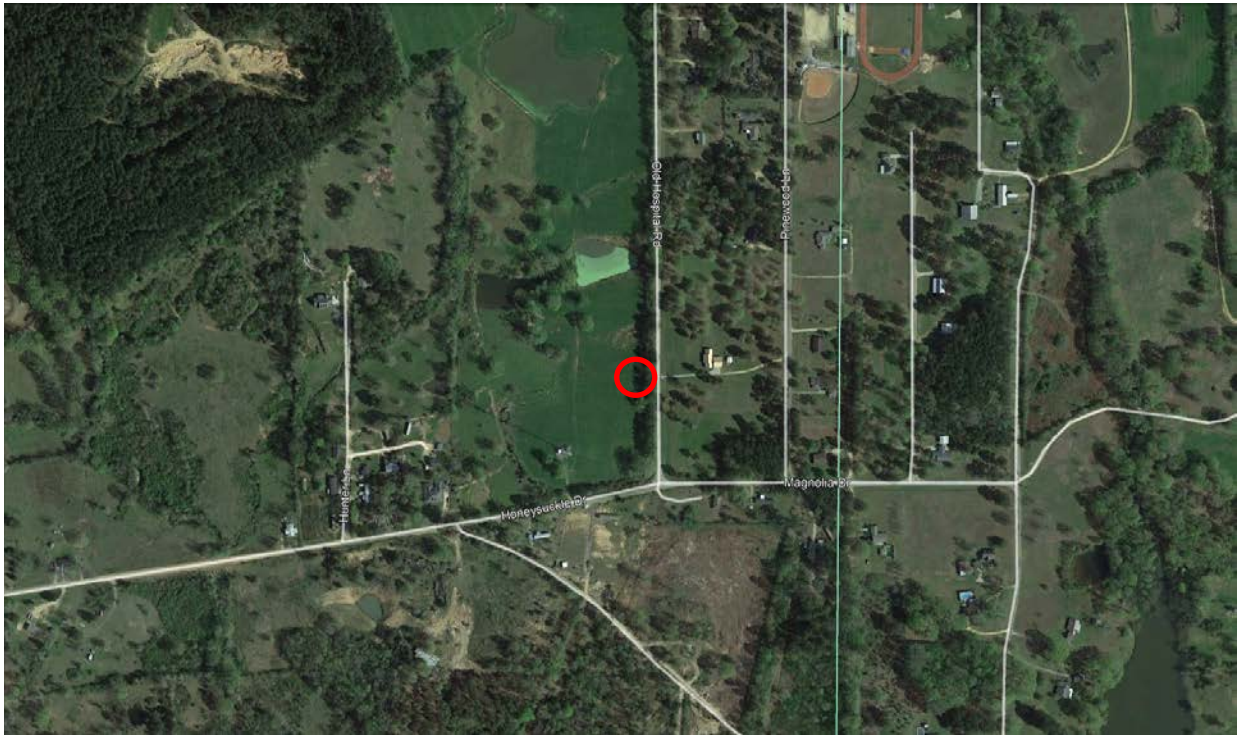
Site Vicinity Map

Tillman Infrastructure – Centreville

1396 Old Hospital Road

Centreville, Mississippi 39631





Site Location & Surrounding Properties



Site Location

----- Easement

Aerial Photographs (2019)
Tillman Infrastructure – Centreville
 1396 Old Hospital Road
 Centreville, Mississippi 39631





Site Photograph 1 – Looking north at the Site



Site Photograph 2 – Looking south at the Site

Site Photographs

Tillman Infrastructure – Centreville
1396 Old Hospital Road
Centreville, Mississippi 39631

Photographed:
June 15, 2020



Site Photograph 3 – Looking east at the Site



Site Photograph 4 – Looking west at the Site

Site Photographs

Tillman Infrastructure – Centreville
1396 Old Hospital Road
Centreville, Mississippi 39631

Photographed:
June 15, 2020



Site Photograph 5 – Looking north away from the Site



Site Photograph 6 – Looking south away from the Site

Site Photographs

Tillman Infrastructure – Centreville
1396 Old Hospital Road
Centreville, Mississippi 39631

Photographed:
June 15, 2020



Site Photograph 7 – Looking east away from the Site



Site Photograph 8 – Looking west away from the Site

Site Photographs

Tillman Infrastructure – Centreville
1396 Old Hospital Road
Centreville, Mississippi 39631

Photographed:
June 15, 2020



Site Photograph 9 – Looking west toward the access/utility easement



Site Photograph 10 – Looking south toward the access/utility easement

Site Photographs

Tillman Infrastructure – Centreville
1396 Old Hospital Road
Centreville, Mississippi 39631

Photographed:
June 15, 2020

Soil Map—Wilkinson County, Mississippi



Map Scale: 1:1,990 if printed on A landscape (11" x 8.5") sheet.

0 25 50 100 150 Meters

0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

6/9/2020
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Wilkinson County, Mississippi

Survey Area Data: Version 12, Sep 13, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 20, 2018—Jan 5, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
20B2	Providence silt loam, 2 to 5 percent slopes, eroded	10.7	63.9%
20C2	Providence silt loam, 5 to 8 percent slopes, eroded	6.0	36.1%
Totals for Area of Interest		16.7	100.0%



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Mississippi Ecological Services Field Office
6578 Dogwood View Parkway, Suite A
Jackson, MS 39213-7856
Phone: (601) 965-4900 Fax: (601) 965-4340
<http://www.fws.gov/mississippiES/endsp.html>



In Reply Refer To:

June 16, 2020

Consultation Code: 04EM1000-2020-SLI-1009

Event Code: 04EM1000-2020-E-02271

Project Name: Centreville

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office. Submit consultation requests electronically to the following email: msfosection7consultation@fws.gov

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
 - Migratory Birds
 - Wetlands
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Mississippi Ecological Services Field Office

6578 Dogwood View Parkway, Suite A

Jackson, MS 39213-7856

(601) 965-4900

Project Summary

Consultation Code: 04EM1000-2020-SLI-1009

Event Code: 04EM1000-2020-E-02271

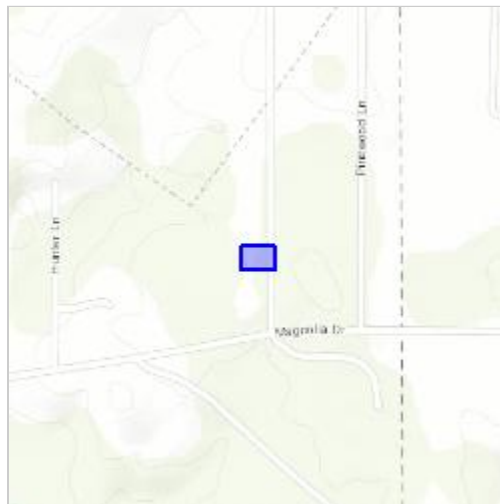
Project Name: Centreville

Project Type: COMMUNICATIONS TOWER

Project Description: The Site is located at 1396 Old Hospital Road, Centreville, Wilkinson County, Mississippi 39631, and consists of the construction of a 310-foot Self-Support Communications Tower, with an overall height of 335-feet, within a 100-foot by 100-foot lease area. The project includes a 30-foot wide access/utility easement that extends east from the eastern portion of the lease area towards Old Hospital Road. A 16-foot cattle gate and 12-foot-wide gravel access road will be installed within the access/utility easement. Associated equipment including an equipment cabinet and a generator will be installed within a 15-foot by 20-foot lease space southeast of the tower within the 100-foot by 100-foot lease area. An ice bridge will extend from the equipment cabinet to the tower. The proposed tower site is approximately 369.4 feet above mean sea level.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/31.070153473557262N91.06165721223636W>



Counties: Wilkinson, MS

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Birds

NAME	STATUS
Wood Stork <i>Mycteria americana</i> Population: AL, FL, GA, MS, NC, SC No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8477	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

-
1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ “What does IPaC use to generate the migratory birds potentially occurring in my specified location”. Please be aware this report provides the “probability of presence” of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the “no data” indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ “Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds” at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

This list is not meant as a comprehensive listing of all animal species. Rather the animals listed below are recognized as species of "special concern" for

RED indicates [endangered](#) federal status.

GREEN indicates [threatened](#) federal status.

County	Scientific Name	Common Name	Global Rank	State Rank	State Status	Type
Wilkinson	Anhinga anhinga	Anhinga	G5	S3B,S1N		Animal
Wilkinson	Aphylla angustifolia	Broad-striped Forceptail	G4	SU		Animal
Wilkinson	Aquila chrysaetos	Golden Eagle	G5	S1N		Animal
Wilkinson	Arcidens confragosus	Rock Pocketbook	G4	S3		Animal
Wilkinson	Chrosomus erythrogaster	Southern Redbelly Dace	G5	S2	LE	Animal
Wilkinson	Corynorhinus rafinesquii	Rafinesque's Big-eared Bat	G3G4	S3		Animal
Wilkinson	Etheostoma asprigene	Mud Darter	G4	S3		Animal
Wilkinson	Haliaeetus leucocephalus	Bald Eagle	G5	S3B,S2N		Animal
Wilkinson	Helmitheros vermivorum	Worm-eating Warbler	G5	S2B		Animal
Wilkinson	Hemidactylum scutatum	Four-toed Salamander	G5	S2S3		Animal
Wilkinson	Incilius nebulifer	Gulf Coast Toad	G5	S3S4		Animal
Wilkinson	Limnothlypis swainsonii	Swainson's Warbler	G4	S2S3B		Animal
Wilkinson	Myotis austroriparius	Southeastern Myotis	G4	S3S4		Animal
Wilkinson	Paravitrea significans	Domed Supercoil	G3	SNR		Animal
Wilkinson	Passerina ciris	Painted Bunting	G5	S3B		Animal
Wilkinson	Picoides borealis	Red-cockaded Woodpecker	G3	S1	LE	Animal

Wilkinson	Plethodon websteri	Webster's Salamander	G3G4	S2		Animal
Wilkinson	Rana palustris	PickereI Frog	G5	S3S4		Animal
Wilkinson	Scaphirhynchus platorynchus	Shovelnose Sturgeon	G4	S3?		Animal
Wilkinson	Ursus americanus luteolus	Louisiana Black Bear	G5T2	S1	LE	Animal

This list is not meant as a comprehensive listing of all animal species. Rather the animals listed below are recognized as species of "special concern" for

RED indicates [endangered](#) federal status.

GREEN indicates [threatened](#) federal status.

County	Scientific Name	Common Name	Global Rank	State Rank	State Status	Type
Wilkinson	Adiantum capillus-veneris	Southern Maidenhair-fern	G5	S2		Plant
Wilkinson	Carya glabra var. hirsuta	Swamp Hickory	G5T3T5	S3		Plant
Wilkinson	Celastrus scandens	Climbing Bittersweet	G5	S3		Plant
Wilkinson	Cheilanthes alabamensis	Alabama Lipfern	G4G5	S1		Plant
Wilkinson	Cyperus plukenetii	Plukenet's Flatsedge	G5	S3		Plant
Wilkinson	Cyperus thrysiflorus	Southcentral Flatsedge	G5	S1		Plant
Wilkinson	Deparia acrostichoides	Silvery Spleenwort	G5	S1S2		Plant
Wilkinson	Diplazium pycnocarpon	Glade Fern	G5	S2S3		Plant
Wilkinson	Hexalectris spicata	Crested Coralroot	G5	S2		Plant
Wilkinson	Hymenocallis liriosome	Texas Spider-lily	G4?	S2		Plant
Wilkinson	Lobelia appendiculata	Ear-flower Lobelia	G4G5	S3		Plant
Wilkinson	Pachysandra procumbens	Allegheny-spurge	G4G5	S3		Plant
Wilkinson	Panax quinquefolius	American Ginseng	G3G4	S3		Plant
Wilkinson	Physalis carpenteri	Carpenter's Ground-cherry	G3	S1		Plant
Wilkinson	Platythelys quercetica	Low Erythrodes	G3G5	S1		Plant

Wilkinson	Ponthieva racemosa	Shadow-witch Orchid	G4G5	S2		Plant
Wilkinson	Schisandra glabra	Bay Starvine	G3	S3		Plant
Wilkinson	Scirpus divaricatus	Spreading Bulrush	G5	S2		Plant
Wilkinson	Selaginella ludoviciana	Gulf Spike-moss	G3G4	S1S2		Plant
Wilkinson	Spiranthes ovalis	Lesser Ladies'-tresses	G5?	S2S3		Plant