

# PHASE 1 PROJECT LANDS EVALUATION STUDY REPORT

R.L. HARRIS HYDROELECTRIC PROJECT

FERC No. 2628



Prepared by:

**Alabama Power Company**  
and  
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October 2020



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## TABLE OF CONTENTS

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LIST OF TABLES .....	I
LIST OF FIGURES.....	I
LIST OF APPENDICES .....	II
1.0 INTRODUCTION.....	1
1.1 Study Background .....	4
2.0 METHODS.....	7
3.0 RESULTS .....	9
3.1 Current Land Classifications.....	9
3.2 Proposed Classifications.....	10
4.0 BOBWHITE QUAIL HABITAT.....	13
5.0 FLAT ROCK BOTANICAL INVENTORY.....	15
6.0 DISCUSSION AND CONCLUSION.....	16
6.1 Proposed Changes .....	16
7.0 REFERENCES .....	18

### LIST OF TABLES

Table 6-1	Summary of Proposed Land Changes in Acres by Classification .....	17
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### LIST OF FIGURES

Figure 1-1	Lake Harris Project Boundary .....	3
Figure 1-2	Skyline Project Boundary .....	4
Figure 4-1	ADCNR Quail Call Survey Locations.....	14



## **LIST OF APPENDICES**

- Appendix A Acronyms and Abbreviations
- Appendix B Maps and Supporting Information of Proposed Changes
- Appendix C Large Scale Maps of R.L. Harris Project Lands
- Appendix D Flat Rock Botanical Inventory Report
- Appendix E Stakeholder Comment Table

## 1.0 INTRODUCTION

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Alabama Power Company (Alabama Power) owns and operates the R.L. Harris Hydroelectric Project (Harris Project), FERC Project No. 2628, licensed by the Federal Energy Regulatory Commission (FERC). Alabama Power Company (Alabama Power) is relicensing the 135-megawatt (MW) Harris Project, and the existing license expires in 2023. The Harris Project consists of a dam, spillway, powerhouse, and those lands and waters necessary for the operation of the hydroelectric project and enhancement and protection of environmental resources. These structures, lands, and water are enclosed within the FERC Project Boundary. Under the existing Harris Project license, the FERC Project Boundary encloses two distinct geographic areas, described below.

Harris Reservoir is the 9,870-acre reservoir (Harris Reservoir) created by the R.L. Harris Dam (Harris Dam). The lands adjoining the reservoir total approximately 7,392 acres and included in the FERC Project Boundary (Figure 1-1). This includes land to 795 feet mean sea level (msl)<sup>1</sup>, as well as natural undeveloped areas, hunting lands, prohibited access recreational areas, and all islands.



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areas,

the  
WMA)

lands

The Harris Project also contains 15,063 acres of land within James D. Martin-Skyline Wildlife Management Area (Skyline located in Jackson County, Alabama (Figure 1-2). These are located approximately 110 miles north of Harris Reservoir and were acquired and incorporated into the FERC Project Boundary as part of the FERC-approved Harris Project Wildlife Mitigative Plan and Wildlife Management Plan. These lands are leased to, and managed by, the State of Alabama for wildlife management and public hunting and are part of the Skyline WMA (ADCNR 2016).

For the purposes of this study report, "Lake Harris" refers to the 9,870-acre reservoir, adjacent 7,392 acres of Project land, and the dam, spillway, and powerhouse. "Skyline" refers to the

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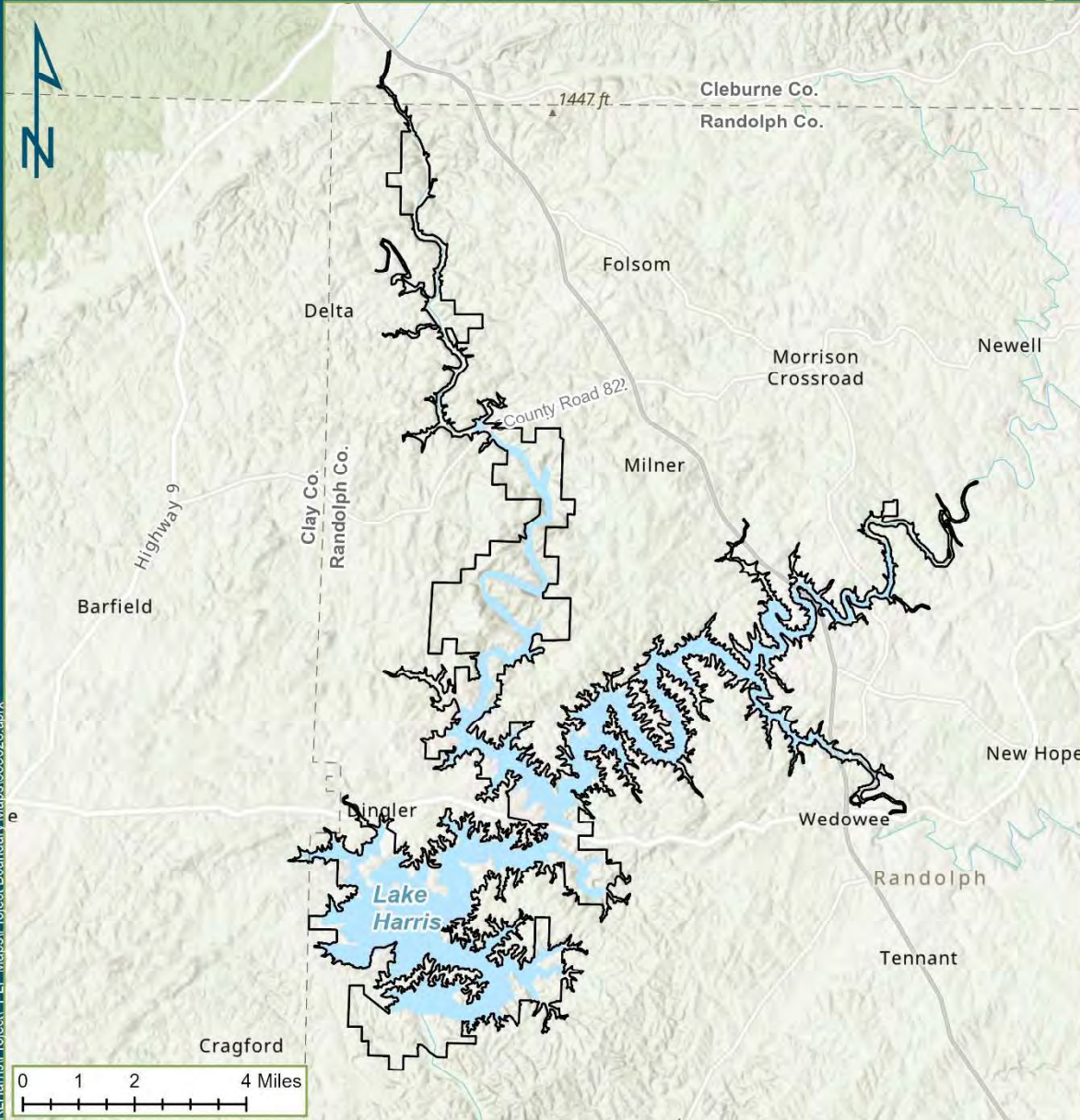
<sup>1</sup> Also includes a scenic easement (to 800 feet msl or 50 horizontal feet from 793 feet msl, whichever is less, but never less than 795 feet msl).

15,063 acres of Project land within the Skyline WMA in Jackson County. "Harris Project" refers to all the lands, waters, and structures enclosed within the FERC Project Boundary, which includes both Lake Harris and Skyline. Harris Reservoir refers to the 9,870-acre reservoir only; Harris Dam refers to the dam, spillway, and powerhouse. The Project Area refers to the land and water in the Project Boundary and immediate geographic area adjacent to the Project Boundary (Alabama Power Company 2018).

Lake Harris and Skyline are located within two river basins: the Tallapoosa and Tennessee River Basins, respectively. The only waterbody managed by Alabama Power as part of their FERC license for the Harris Project is the Harris Reservoir.

Commonly used acronyms that may appear in this report are included in Appendix A.

# Lake Harris Project Boundary



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**Legend**  
 Project Boundary

**Alabama Power**  
 FERC No. 2628

Drawn By: HNG	Date Drawn: 03-04-2021	Checked By: KPN	Date Checked: 03-11-2021
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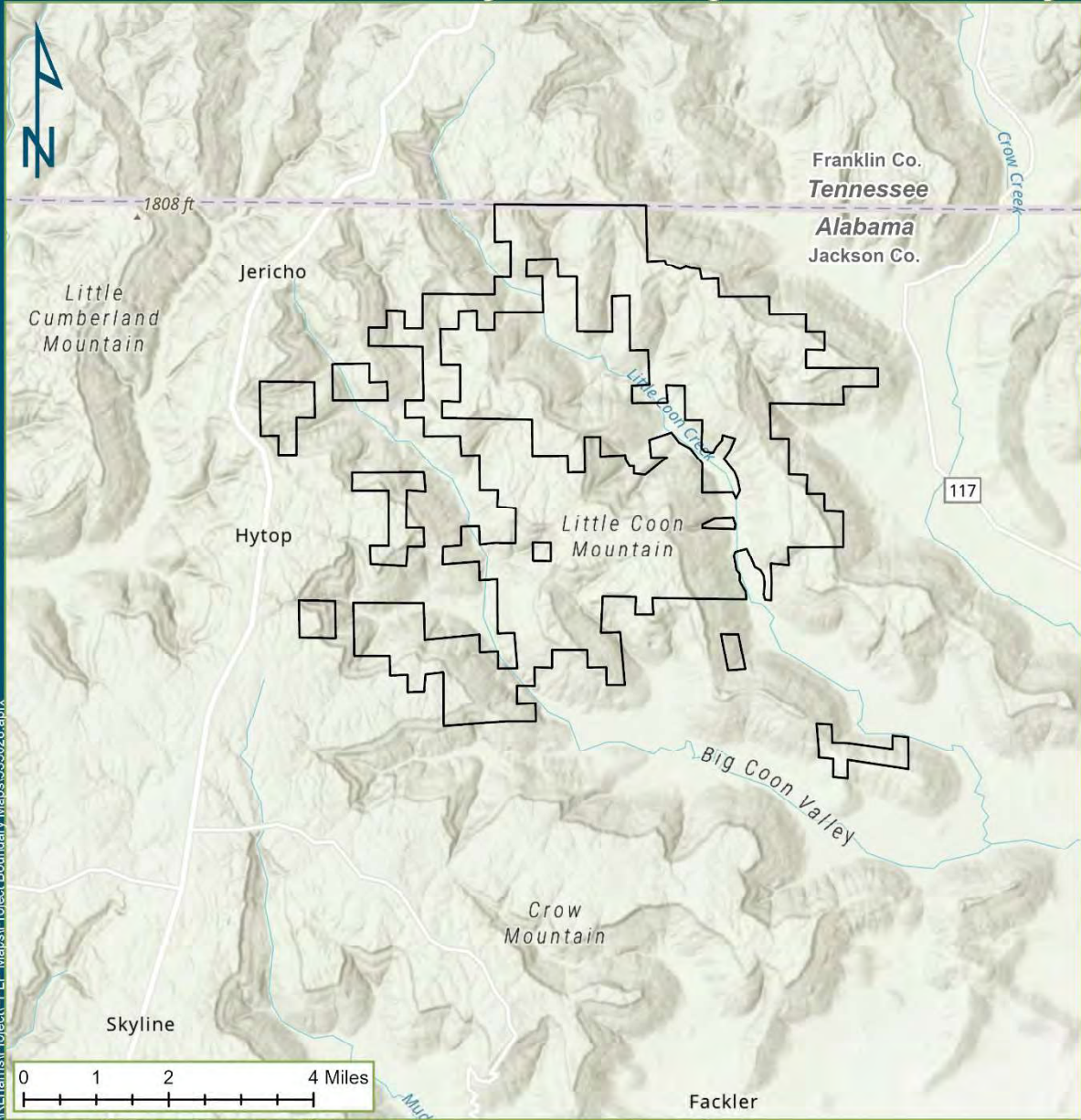
Source: ESRI

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Date Printed: 5/3/2021



# Skyline Project Boundary



Legend  
 Project Boundary

**Alabama Power**  
 FERC No. 2628

Drawn By: HNG	Date Drawn: 03-04-2021	Checked By: KPN	Date Checked: 03-11-2021
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Date Printed: 5/9/2021

## **1.1 Study Background**

During the October 19, 2017 issue identification workshop, several stakeholders noted issues related to Project lands, including the Wildlife Management Plan (WMP) and the Shoreline Management Plan (SMP). On November 13, 2018, Alabama Power filed ten proposed study plans for the Harris Project, including a study plan for an evaluation of Project lands. FERC issued a Study Plan Determination on April 12, 2019, which included FERC staff recommendations. Alabama Power incorporated FERC's recommendations and filed the Final Study Plans with FERC on May 13, 2019.

The goal of Phase 1 of the Project Lands Evaluation Study is to identify lands around Lake Harris and at Skyline that are needed for Harris Project purposes and to classify these lands. Alabama Power evaluated the land use classifications for Harris and determined if any changes are needed to conform to Alabama Power's current land classification system and other Alabama Power FERC-approved SMPs. Lands to be added to, or removed from, the current Harris Project Boundary and/or be reclassified were identified. The geographic scope for the Project Lands Evaluation Study includes the Harris Project Boundary and the associated Project Area.

Alabama Power formed the Harris Action Team (HAT) 4 to specifically address Project lands' issues at Skyline and the Harris Project Boundary and Project Area. Alabama Power held a HAT 4 meeting on September 11, 2019, to review proposed land use changes, including lands to be added to the Project Boundary, lands to be removed from the Project Boundary, and proposed changes in land use classifications of existing Project lands. Alabama Power presented the proposed changes in GIS overlays and posted the September 11, 2019 HAT 4 meeting summary on the Harris Relicensing website. Following the September 11, 2019 HAT 4 meeting, Alabama Power solicited feedback from HAT 4 on the Project Lands proposal. All stakeholder feedback will be considered in developing the final proposal to be included in the Preliminary Licensing Proposal (PLP) and Final License Application.

Alabama Power developed this study report to present the results of the Phase 1 Project Lands Evaluation. Appendix B includes maps and supporting information for Alabama Power's proposed changes. Appendix C includes large scale maps of Project Lands.



Phase 2 of the Project Lands Evaluation Study will use the Phase 1 evaluation information, as well as results from other studies, to develop a Wildlife Management Plan (WMP) and a Shoreline Management Plan (SMP).

## 2.0 METHODS

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This study is divided into two phases: Phase 1, project lands evaluation and Phase 2, developing the WMP and SMP based on the results of Phase 1. The methods used during the Phase 1 evaluation are detailed below.

1. Desktop Analysis: Alabama Power performed a spatial analysis in a Geographic Information System (GIS) using the following data: existing Project Boundary information, existing information regarding the location of any threatened or endangered species (T&E), wetlands, and cultural resources (i.e., "Sensitive Areas"), timber management tracts and current practices, the impaired waters GIS layer developed by the Alabama Department of Environmental Management (ADEM), the results of the Bobwhite quail habitat analysis (discussed below), and the results of the Flat Rock Botanical Inventory (see Section 5.0). Additionally, Alabama Power incorporated anecdotal information provided by Alabama Power staff and Harris relicensing stakeholders regarding historical and current trends in economic development, access to Project lands, and recreation needs. High resolution imagery and topographical data (LIDAR) supplemented the desktop analysis. As results from other ongoing Harris relicensing studies become available (i.e., threatened and endangered species, cultural resources, recreation), Alabama Power will incorporate these results in its Project lands evaluation.
2. Maps: Alabama Power developed a draft map using the above described GIS analysis to show all proposed changes to Harris Project Lands.
3. Meetings: Alabama Power held a Harris Action Team (HAT) 4 meeting on September 11, 2019, to review proposed land use changes, including lands to be added to the Project Boundary, lands to be removed from the Project Boundary, and proposed changes in land use classifications of existing Project lands. Alabama Power presented the proposed changes in GIS overlays and posted the September 11, 2019 HAT 4 meeting summary on the Harris Relicensing website at [www.harrisrelicensing.com](http://www.harrisrelicensing.com).
4. Stakeholder comments: Following the September 11, 2019 HAT 4 meeting, Alabama Power solicited feedback from HAT 4 on the Project Lands proposal. Documentation of the feedback received is included within the consultation record, and all stakeholder

feedback will be considered in developing the final proposal to be included in the Preliminary Licensing Proposal (PLP) and Final License Application.

## 3.0 RESULTS

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### 3.1 Current Land Classifications

Alabama Power's current Harris Land Use Plan defines land use categories within the existing Project Boundary (Alabama Power 2008). Harris Project classifications are Recreational Use, Hunting, Prohibited Access, and Natural Undeveloped, as defined below.

- *Recreational Use (Public Use Areas)* – Includes lands where existing public recreation access and facilities occur and those lands set aside for future recreational use access depending on future recreation demand and needs. Within these areas, specific locations are identified as “Quasi-Public Use Areas” to provide potential use by non-profit groups, such as scouts, youth organizations, and educational groups, for outdoor recreational activities.
- *Hunting* – Includes lands that are managed to provide hunting opportunities (either through hunting leases or individual permits) as prescribed in accordance with the existing Harris Project Wildlife Mitigation Plan. Non-hunting related public access is allowed from May 1 until September 30 of each year for activities such as hiking, backpacking, camping, wildlife observation, and bank fishing opportunities.
- *Prohibited Access* – Includes lands where public use and access are prohibited to avoid hazards to the public and to prevent interference or damage to Harris Project facilities and operations (the tailrace fishing area is one exception to this use type where public access is allowed).
- *Natural Undeveloped* – Includes lands to remain in an undeveloped state to serve as protective buffer zones around public recreation areas and shoreline areas, preserve natural aesthetic qualities, prevent overcrowding, as well as to protect environmentally sensitive areas. These lands allow public access for hiking and primitive camping activities and are managed for timber production in accordance with the existing Harris Wildlife Mitigation Plan.

### 3.2 Proposed Classifications

At this time, Alabama Power is not proposing any substantive changes to the current Harris Project land use classification definitions. However, all classification definitions will be slightly modified to match the definitions included within other Alabama Power SMPs (i.e., Coosa, Warrior, and Martin Projects). These definitions will be further reviewed during the development of the SMP in Phase 2 of the Project Lands Evaluation Study. For example, Alabama Power does not plan to continue using the *Quasi-Public Use Area* subcategory as defined in the current Land Use Plan. Rather, the proposed definition for recreation will not include any subcategories and will encompass all subcategories included in the current Land Use Plan. Additionally, the existing permitting processes conducted for each land use classification will be evaluated during the development of the SMP in Phase 2 of the Project Lands Evaluation Study.

As such, Alabama Power is proposing to use the following land use classification definitions, which match the definitions described within the SMPs of other Alabama Power projects:

1. Recreation – This classification includes Project lands managed by Alabama Power for existing or potential future recreational activities. This includes land that is developed for public recreation, open space, water access, and future recreational development. Alabama Power typically owns these lands in fee simple title, but they may be operated by a third party under a lease agreement with Alabama Power. The allowable uses in the Recreation classification include public access and day and evening recreational use. This classification may allow structures, such as parks with boat slips, beach areas, dry boat storage facilities, trails, etc. to be permitted through the appropriate process.
2. Hunting – This classification includes lands that are managed to provide hunting opportunities (either through hunting leases or individual permits) as prescribed in accordance with the existing Harris Project Wildlife Mitigation Plan. Non-hunting related public access is allowed from May 1 until September 30 of each year for activities such as hiking, backpacking, camping, wildlife observation, and bank fishing opportunities.
3. Project Operations (formerly titled Prohibited Access) – This classification includes Project lands reserved for current and potential future operational activities. This includes all Project lands used for hydroelectric generation, switchyards, transmission facilities, rights-of-way, security, and other operational uses. Alabama Power owns these

lands in fee simple title. For security, the allowable uses in this classification are primarily restricted to Alabama Power personnel; however, in some cases, such as guided public tours, limited public access is available.

4. Natural/Undeveloped – Lands included in the Natural/Undeveloped classification include Project lands which will remain undeveloped for the following specific Project purposes:

- protecting environmentally sensitive areas;
- preserving natural aesthetic qualities;
- serving as buffer zones around public recreation areas; and
- preventing overcrowding of partially developed shoreline.

This classification allows for public hiking trails, nature studies, primitive camping, wildlife management (excluding hunting), and normal forestry management practices. Alabama Power typically owns these Project lands in fee simple title and manages them for effective protection of associated resource values.

Additionally, Alabama Power is proposing to add the following land use classifications, the definitions of which will be finalized during the development of the SMP in Phase 2 of the Project Lands Evaluation Study:

1. “Commercial Recreation”: This classification will include lands developed for commercial recreation purposes. Alabama Power’s draft definition for the new land use classification is: “Lands containing existing concessionaire-operated public marinas and recreational areas that provide a wide variety of recreational services to the public on a fee basis. Structures on these lands are generally subject to approval by FERC.”
2. “Flood Storage”: This classification will include all lands located between the 793’ mean sea level (msl) contour and the 795’ msl contour, which are owned in fee simple by Alabama Power and are used for the project purpose of storing flood waters from time to time.



3. "Scenic Buffer Zone": This classification will include all lands located between the 795' msl contour and the 800' msl contour<sup>2</sup>, which includes lands either owned by Alabama Power in fee simple or areas controlled by easement for the project purpose of protecting scenic and environmental values.

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<sup>2</sup>Or, in specified areas not to the 800' msl, 50 horizontal feet from 793' msl, whichever is less, but never less than 795 feet msl.

## 4.0 BOBWHITE QUAIL HABITAT

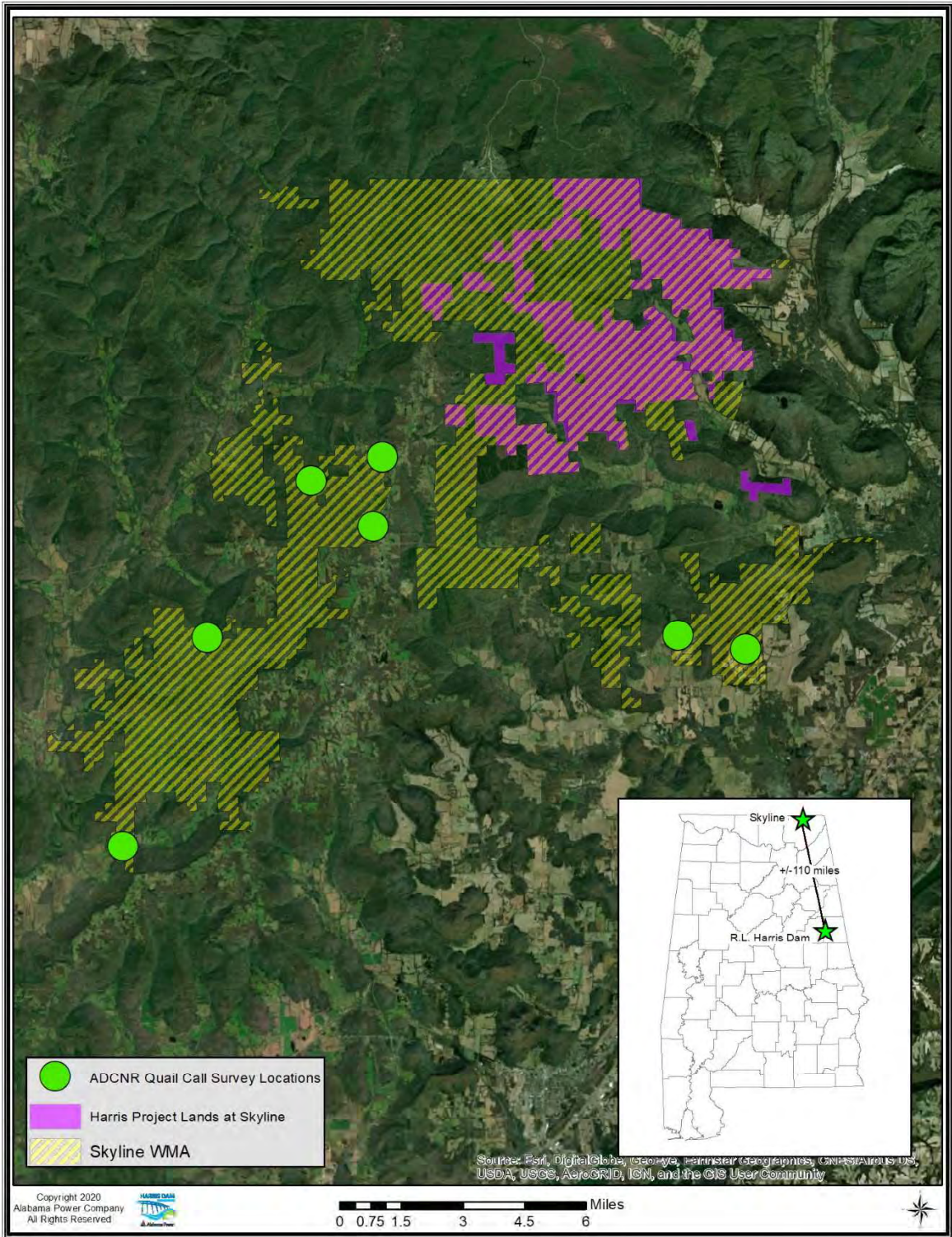
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As outlined in the FERC-approved study plan, Alabama Power evaluated acreage at Skyline to determine availability of suitable bobwhite quail habitat.

Bobwhite quail are adapted to habitats dominated by forbs (annual broad-leafed herbaceous plants) transitioning to native perennial bunchgrasses and scattered brush. They are found in abandoned weedy fields and open pinelands or savanna with extensive groundcover of forbs, native grasses, and scattered brush thickets (ADCNR 2020).

The Alabama Department of Conservation and Natural Resources (ADCNR) conducts spring/fall quail call surveys at approximately seven locations (Figure 4-1) located at Skyline WMA and in the vicinity of (but not located within) the Skyline Project Boundary. From 2017 to 2019, ADCNR documented quail occurrences at all seven sites; however, in most instances only 1 to 2 males or a single covey was detected.

Alabama Power performed an evaluation to identify potential habitat sites within the Skyline Project Boundary. The desktop assessment included using local ADCNR personnel knowledge of the Skyline WMA. Contour lines of the seven ADCNR locations where quail are currently monitored were compared with contour lines on property within the Skyline Project Boundary in an effort to identify areas with the greatest potential to have open weedy fields, open pineland, or open savanna. Typical habitat at Skyline includes steeply sloped areas with dense hardwoods that prevent the annual broad-leafed herbaceous ground cover and perennial bunchgrass preferred by bobwhite quail. One area in particular was identified as having some potential to have open abandoned weedy fields potentially containing the native herbaceous ground cover that would comprise quail habitat. A site visit to this area was conducted on January 30, 2020. A qualitative assessment of the site indicated that it would not currently support bobwhite quail. ADCNR discussed interest in incorporating the site into their spring/fall quail call survey sampling to confirm the assessment.



**Figure 4-1 ADCNR Quail Call Survey Locations**

## 5.0 FLAT ROCK BOTANICAL INVENTORY

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Alabama Power is proposing to reclassify +/-57 acres of existing Project lands from Recreation to Natural/Undeveloped (illustrated as RC7 in Appendix B) due to the presence of the rare Blake's Ferry Pluton. The need for a special land use classification for this area (in lieu of Natural/Undeveloped) will be reviewed during the development of the SMP in Phase 2 of the Project Lands Evaluation Study.

During the spring and fall 2019, Samford University conducted a botanical inventory of a 20-acre parcel at Flat Rock Park for the purposes of cataloguing all plants present at the rare Blake's Ferry Pluton located adjacent to Alabama Power's Flat Rock Park.

Information collected during this inventory includes a description of the biological setting, inventory dates and methods, results and conclusions (including a list of all species found in the study area and their conservation status), and an assessment of the biological significance or ecological quality of the project site in a local and regional context. Additionally, a GIS map of all state and federally listed species found in the study area is included. A copy of the Flat Rock Botanical Inventory report is included as Appendix D.

## 6.0 DISCUSSION AND CONCLUSION

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### 6.1 Proposed Changes

During the Phase 1 evaluation, Alabama Power identified the following types of proposed changes:

1. **Reclassifications:** Reclassifications are proposed changes to the land use classification of existing Harris Project Lands. These proposed changes do not modify the current Project Boundary but merely reclassify the Project lands to a more appropriate classification.
2. **Removals:** Removals are proposed changes to existing Project Lands where Alabama Power proposes to remove lands from the Project Boundary. These proposed changes will result in a change to the Project Boundary. However, only that portion of the property located above the 800' msl contour will be removed. The property located within the 800' msl contour will be reclassified as discussed in Section 5.2 above.
3. **Additions:** Additions are proposed changes to the existing Project Boundary where Alabama Power proposes to add lands. These proposed changes will result in a change to the Project Boundary. Additionally, the portions of the property located below the 800' msl contour will be reclassified to match the classification of the added property.

The acreage totals of the baseline (i.e., existing condition) and Alabama Power's proposal are provided in Table 6-1. Additionally, maps and supporting information by tract are provided in Appendix B. As results from other phase 1 studies are finalized and as the SMP and WMP are prepared, Alabama Power's Project lands proposal may change.

**Table 6-1 Summary of Proposed Land Changes in Acres by Classification<sup>3</sup>**

<b>Classification</b>	<b>Baseline (ac)</b>	<b>Proposed (ac)</b>	<b>Difference</b>
Natural/Undeveloped (including islands)	2,440	2,790	350
Hunting (near reservoir)	2,707	2,910	203
Skyline	15,063	15,063	0
Recreation	874 <sup>4</sup>	274	-600
Commercial Recreation	0	150	150
Prohibited Access	312	307	-5
Flood Storage	262	264	2
Scenic Buffer Zone	737	745	8
<b>Total</b>	<b>22,395</b>	<b>22,503</b>	<b>108</b>

Source: Alabama Power 2019

Key: ac acre

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<sup>3</sup> This table has been updated since the September 11, 2019 HAT 4 meeting based upon mapping errors discovered following the meeting (See RC7 below).

<sup>4</sup> Includes lands currently subclassified as Quasi-Public; as discussed in Section 3.2, Alabama Power is not proposing to continue subclassifications of Recreation.



## 7.0 REFERENCES

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- Alabama Department of Conservation and Natural Resources (ADCNR). 2016. Wildlife Management Areas. Available at: <http://www.outdooralabama.com/wildlife-management-areas>. Accessed November 2016.
- Alabama Department of Conservation and Natural Resources (ADCNR). 2020. Northern Bobwhite. Available at: <https://www.outdooralabama.com/grouse-turkeys-and-quail/northern-bobwhite>. Accessed March 2020.
- Alabama Power Company. 2008. 1995 Land Use Plan for the R.L. Harris Project (Revised 2008) submitted to the Federal Energy Regulatory Commission by Alabama Power Company, on June 30, 2008. Alabama Power Company, Birmingham, AL.
- Alabama Power Company. 2018. Pre-Application Document for the Harris Hydroelectric Project (FERC No. 2628). Alabama Power Company, Birmingham, AL.

## **APPENDIX A**

### **ACRONYMS AND ABBREVIATIONS**

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## ACRONYMS AND ABBREVIATIONS

### **A**

A&I	Agricultural and Industrial
ACFWRU	Alabama Cooperative Fish and Wildlife Research Unit
ACF	Apalachicola-Chattahoochee-Flint (River Basin)
ACT	Alabama-Coosa-Tallapoosa (River Basin)
ADCNR	Alabama Department of Conservation and Natural Resources
ADECA	Alabama Department of Economic and Community Affairs
ADEM	Alabama Department of Environmental Management
ADROP	Alabama-ACT Drought Response Operations Plan
AHC	Alabama Historical Commission
Alabama Power	Alabama Power Company
AMP	Adaptive Management Plan
ALNHP	Alabama Natural Heritage Program
APE	Area of Potential Effects
ARA	Alabama Rivers Alliance
ASSF	Alabama State Site File
ATV	All-Terrain Vehicle
AWIC	Alabama Water Improvement Commission
AWW	Alabama Water Watch

### **B**

BA	Biological Assessment
B.A.S.S.	Bass Anglers Sportsmen Society
BCC	Birds of Conservation Concern
BLM	U.S. Bureau of Land Management
BOD	Biological Oxygen Demand

### **C**

°C	Degrees Celsius or Centigrade
CEII	Critical Energy Infrastructure Information
CFR	Code of Federal Regulation
cfs	Cubic Feet per Second
cfu	Colony Forming Unit
CLEAR	Community Livability for the East Alabama Region
CPUE	Catch-per-unit-effort
CWA	Clean Water Act

## ***D***

DEM	Digital Elevation Model
DIL	Drought Intensity Level
DO	Dissolved Oxygen
dsf	day-second-feet

## ***E***

EAP	Emergency Action Plan
ECOS	Environmental Conservation Online System
EFDC	Environmental Fluid Dynamics Code
EFH	Essential Fish Habitat
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act

## ***F***

°F	Degrees Fahrenheit
ft	Feet
F&W	Fish and Wildlife
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FNU	Formazin Nephelometric Unit
FOIA	Freedom of Information Act
FPA	Federal Power Act

## ***G***

GCN	Greatest Conservation Need
GIS	Geographic Information System
GNSS	Global Navigation Satellite System
GPS	Global Positioning Systems
GSA	Geological Survey of Alabama

## ***H***

Harris Project	R.L. Harris Hydroelectric Project
HAT	Harris Action Team
HEC	Hydrologic Engineering Center
HEC-DSSVue	HEC-Data Storage System and Viewer
HEC-FFA	HEC-Flood Frequency Analysis
HEC-RAS	HEC-River Analysis System
HEC-ResSim	HEC-Reservoir System Simulation Model
HEC-SSP	HEC-Statistical Software Package

HDSS	High Definition Stream Survey
hp	Horsepower
HPMP	Historic Properties Management Plan
HPUE	Harvest-per-unit-effort
HSB	Horseshoe Bend National Military Park

## ***I***

IBI	Index of Biological Integrity
IDP	Inadvertent Discovery Plan
IIC	Intercompany Interchange Contract
IVM	Integrated Vegetation Management
ILP	Integrated Licensing Process
IPaC	Information Planning and Conservation
ISR	Initial Study Report

## ***J***

JTU	Jackson Turbidity Units
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## ***K***

kV	Kilovolt
kva	Kilovolt-amp
kHz	Kilohertz

## ***L***

LIDAR	Light Detection and Ranging
LWF	Limited Warm-water Fishery
LWPOA	Lake Wedowee Property Owners' Association

## ***M***

m	Meter
m <sup>3</sup>	Cubic Meter
M&I	Municipal and Industrial
mg/L	Milligrams per liter
ml	Milliliter
mgd	Million Gallons per Day
µg/L	Microgram per liter
µs/cm	Microsiemens per centimeter
mi <sup>2</sup>	Square Miles
MOU	Memorandum of Understanding

MPN	Most Probable Number
MRLC	Multi-Resolution Land Characteristics
msl	Mean Sea Level
MW	Megawatt
MWh	Megawatt Hour

## ***N***

n	Number of Samples
NEPA	National Environmental Policy Act
NGO	Non-governmental Organization
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NOAA	National Oceanographic and Atmospheric Administration
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NTU	Nephelometric Turbidity Unit
NWI	National Wetlands Inventory

## ***O***

OAR	Office of Archaeological Resources
OAW	Outstanding Alabama Water
ORV	Off-road Vehicle
OWR	Office of Water Resources

## ***P***

PA	Programmatic Agreement
PAD	Pre-Application Document
PDF	Portable Document Format
pH	Potential of Hydrogen
PID	Preliminary Information Document
PLP	Preliminary Licensing Proposal
Project	R.L. Harris Hydroelectric Project
PUB	Palustrine Unconsolidated Bottom
PURPA	Public Utility Regulatory Policies Act
PWC	Personal Watercraft
PWS	Public Water Supply



## ***Q***

QA/QC                      Quality Assurance/Quality Control

## ***R***

RM                          River Mile  
RTE                        Rare, Threatened and Endangered  
RV                         Recreational Vehicle

## ***S***

S                             Swimming  
SCORP                    State Comprehensive Outdoor Recreation Plan  
SCP                        Shoreline Compliance Program  
SD1                        Scoping Document 1  
SH                         Shellfish Harvesting  
SHPO                     State Historic Preservation Office  
Skyline WMA            James D. Martin-Skyline Wildlife Management Area  
SMP                        Shoreline Management Plan  
SU                         Standard Units

## ***T***

T&E                        Threatened and Endangered  
TCP                        Traditional Cultural Properties  
TMDL                     Total Maximum Daily Load  
TNC                        The Nature Conservancy  
TRB                        Tallapoosa River Basin  
TSI                        Trophic State Index  
TSS                        Total Suspended Solids  
TVA                        Tennessee Valley Authority

## ***U***

USDA                     U.S. Department of Agriculture  
USGS                     U.S. Geological Survey  
USACE                    U.S. Army Corps of Engineers  
USFWS                    U.S. Fish and Wildlife Service

***W***

WCM

WMA

WMP

WQC

Water Control Manual

Wildlife Management Area

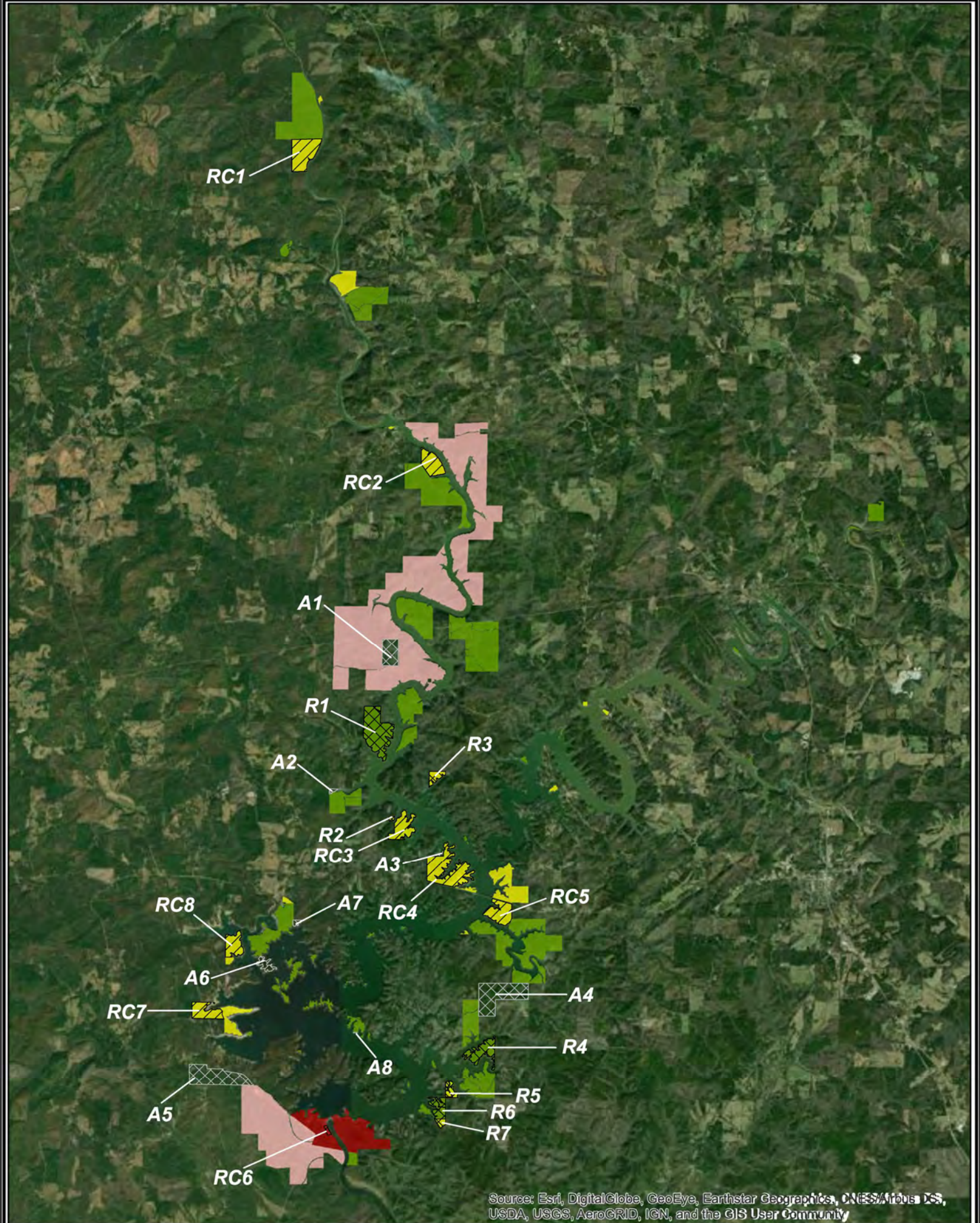
Wildlife Management Plan

Water Quality Certification

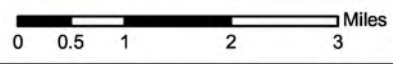
## **APPENDIX B**

### **MAPS AND SUPPORTING INFORMATION OF PROPOSED CHANGES**

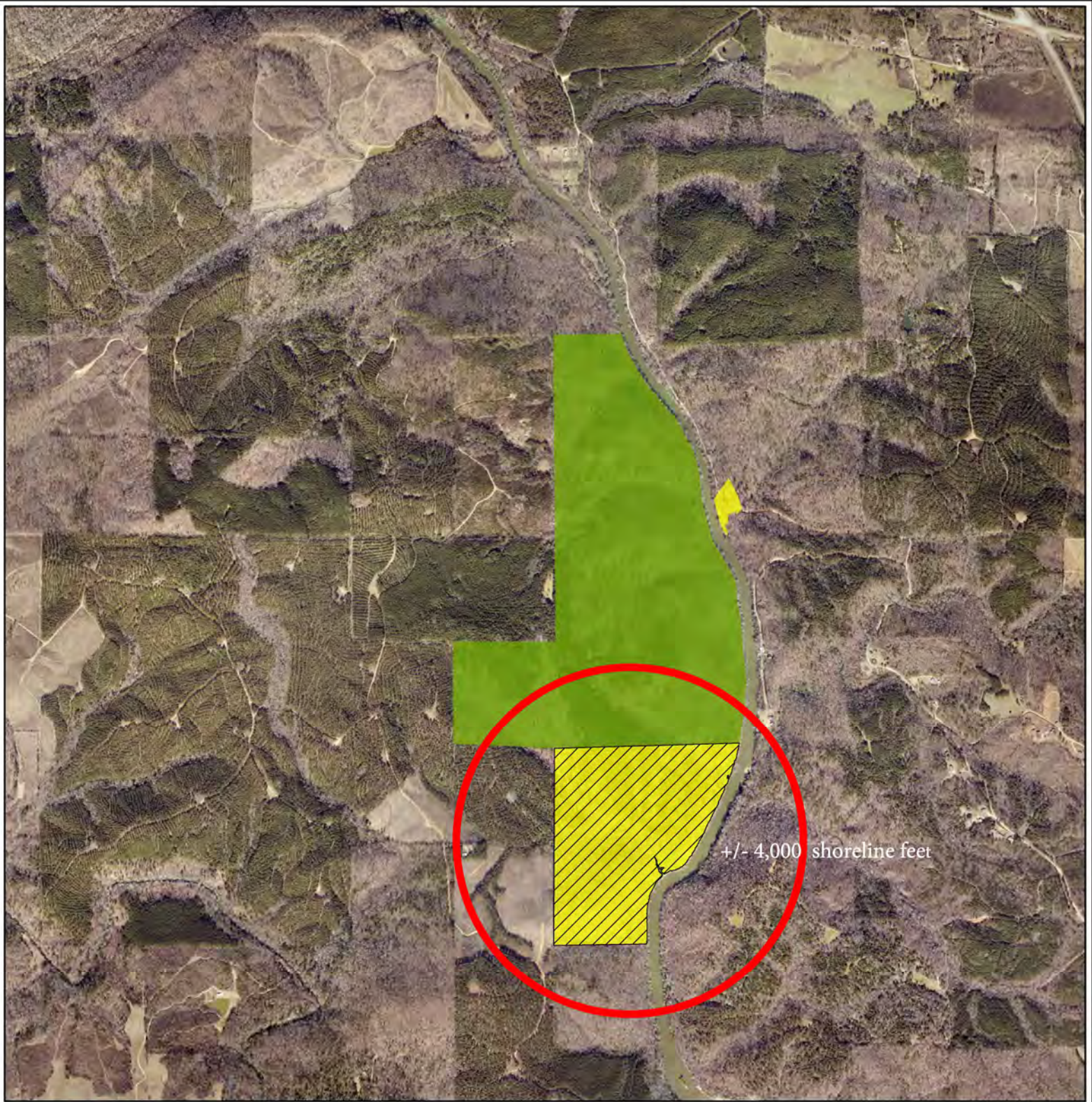
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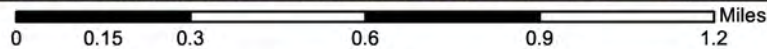
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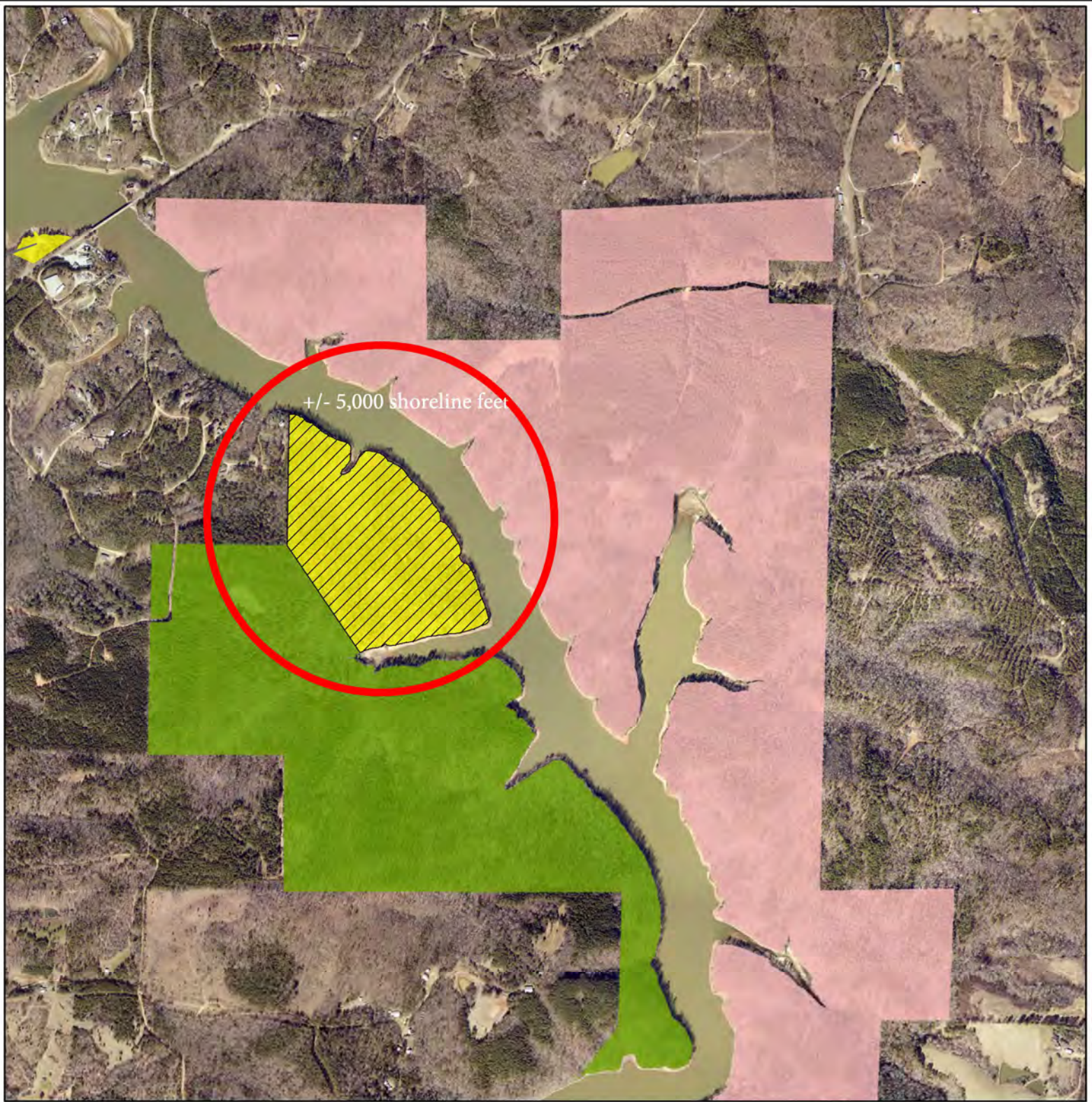
## *RC1 – Reclassify from Recreation to Natural/Undeveloped + /- 105 acres*

- Currently classified as Recreation for the purpose of developing a future park site.
- Analysis revealed that this property is difficult to access and located within area of lake with limited demand for public recreation opportunities.
- Reclassification to Natural/Undeveloped provides consistency of land use and will aid in the protection of the adjacent Natural/Undeveloped Project lands

### Legend

Baseline Classifications	Proposed Changes
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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0 0.125 0.25 0.5 0.75 1 Miles



## RC2 – Reclassify from Recreation to Natural/ Undeveloped +/- 63 acres

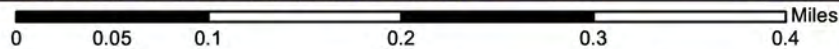
- Currently classified as Recreation for the purpose of developing a future park site.
- Analysis revealed that this property is difficult to access and located within area of lake with limited demand for public recreation opportunities.
- Reclassification to Natural/Undeveloped provides consistency of land use and will aid in the protection of the adjacent Natural/Undeveloped Project lands

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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### RC3 – Reclassify from Recreation to Natural/ Undeveloped +/- 61 acres

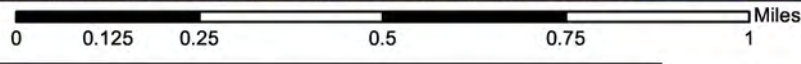
- Added to the Project as Recreation during the 1995 Land Use Plan update
- Analysis revealed that this property is located just upstream of existing Recreation lands that are better located for public access
- Reclassification to Natural/Undeveloped will aid in the maintenance of the natural aesthetics of the area

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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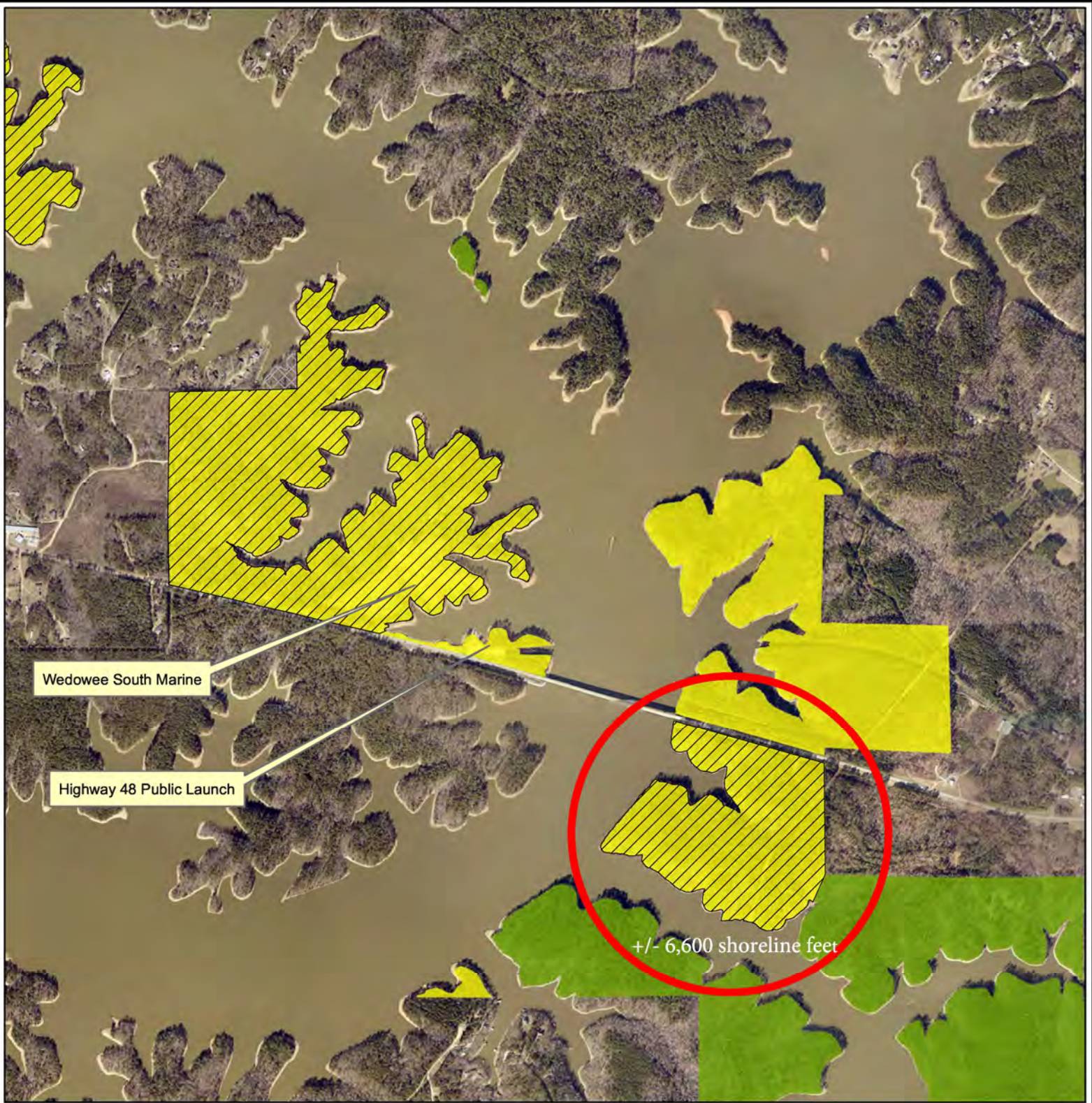


## RC4 – Reclassify from Recreation to Commercial Recreation +/- 148 acres

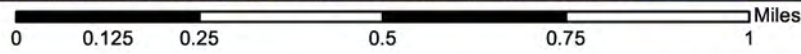
- During relicensing meetings, stakeholders have expressed interest in additional recreation sites similar to Flat Rock Park that are located “closer to town” (i.e., Wedowee) and, thus, easier to access.
- Alabama Power’s shoreline office is located on this tract; a portion of this tract is currently leased to Wedowee Marine South.
- Alabama Power has received previous inquiries regarding a campground in this area.

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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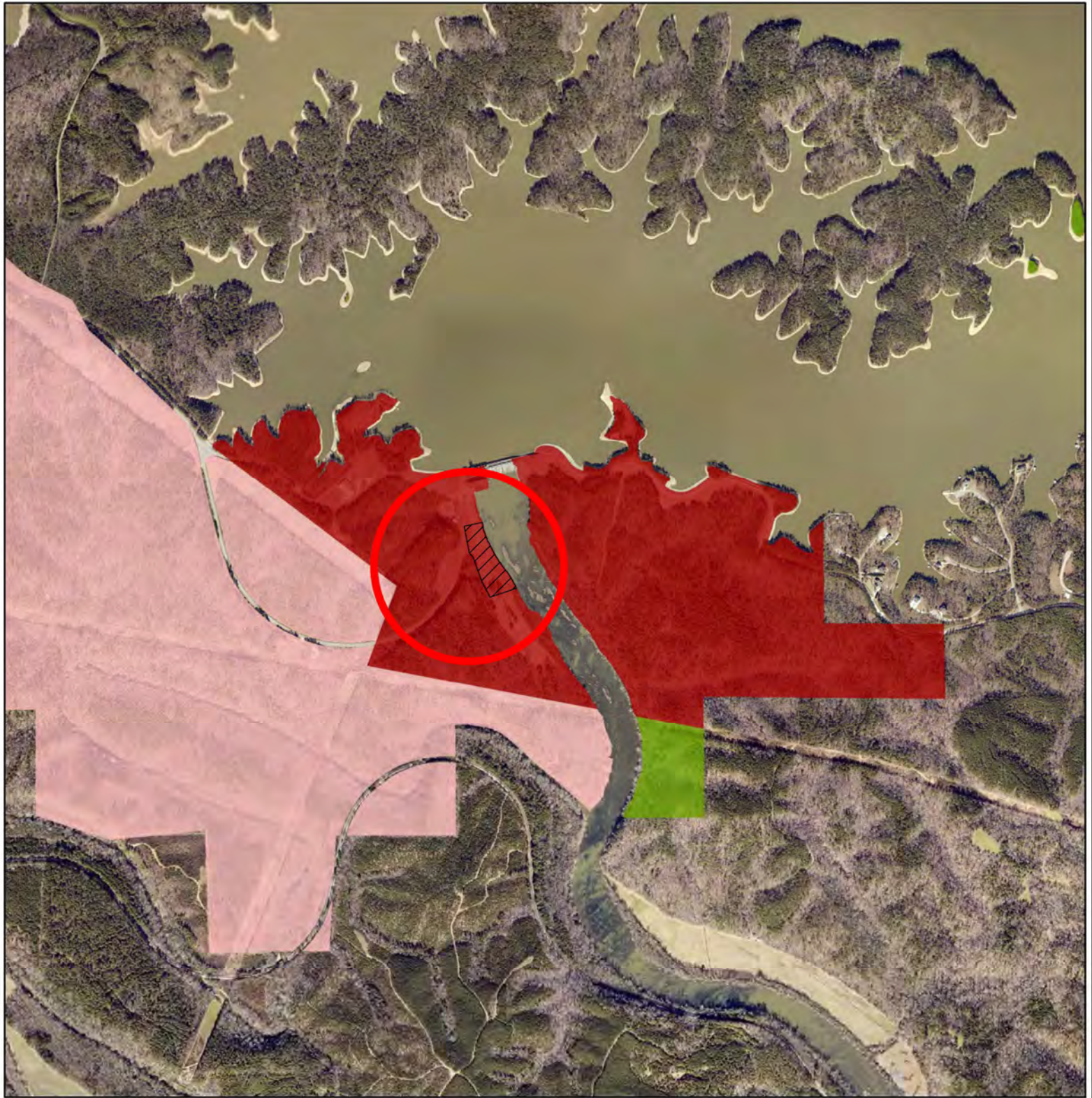


## *RC5 – Reclassify from Recreation to Natural/Undeveloped + /- 69 acres*

- Added to the Project as Recreation during the 1995 Land Use Plan update
- Analysis revealed that this property is not suitable for public recreation due to steep terrain of tract causing difficulty accessing the water
- Reclassification to Natural/Undeveloped provides consistency of land use and will aid in the protection of the adjacent Natural/Undeveloped Project lands

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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0 0.125 0.25 0.5 0.75 1 Miles



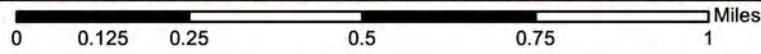
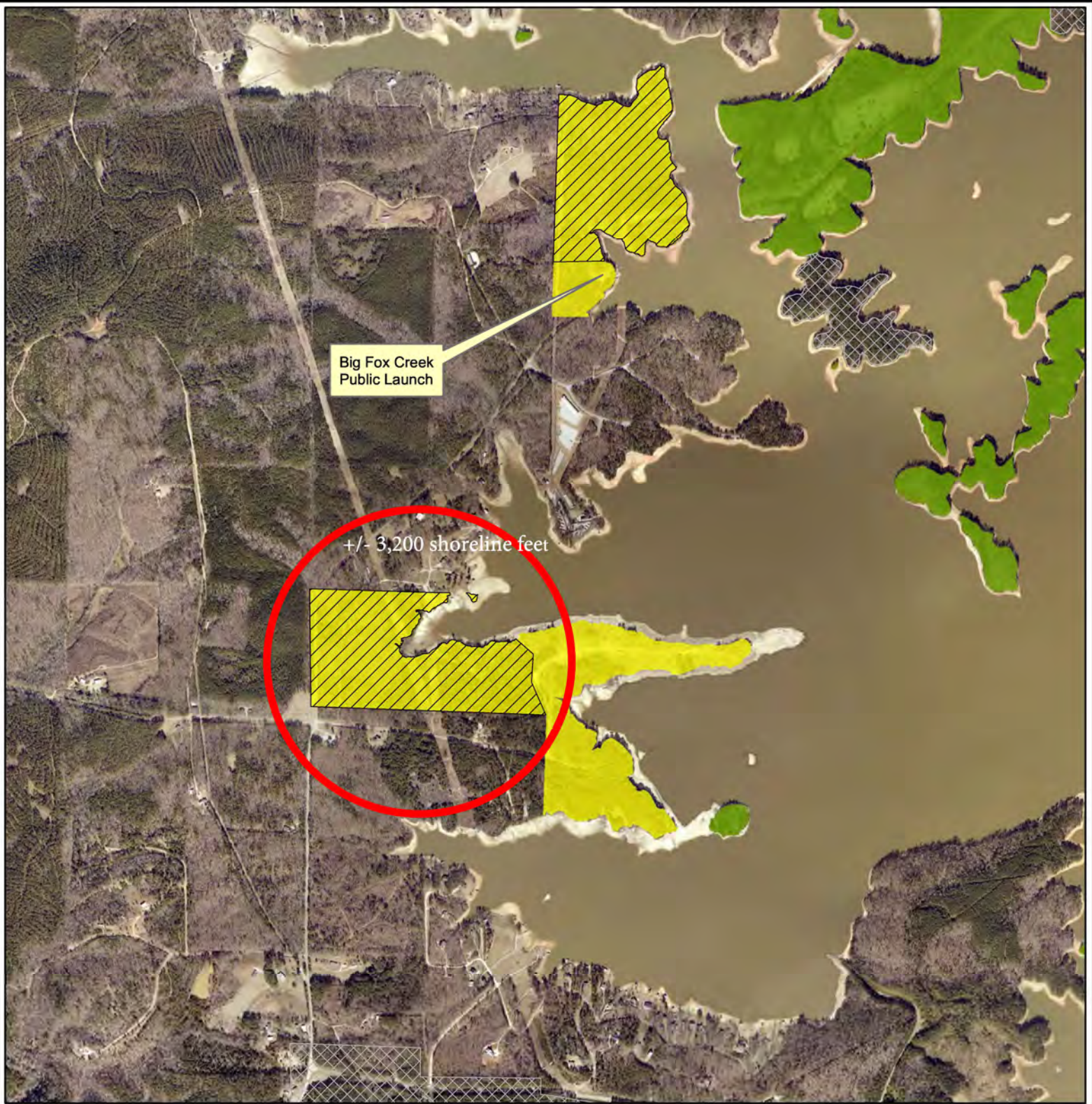
## *RC6 – Reclassify to Recreation +/- 5 acres*

- Location of existing tailrace fishing recreation site

### Legend

Baseline Classifications	Proposed Changes
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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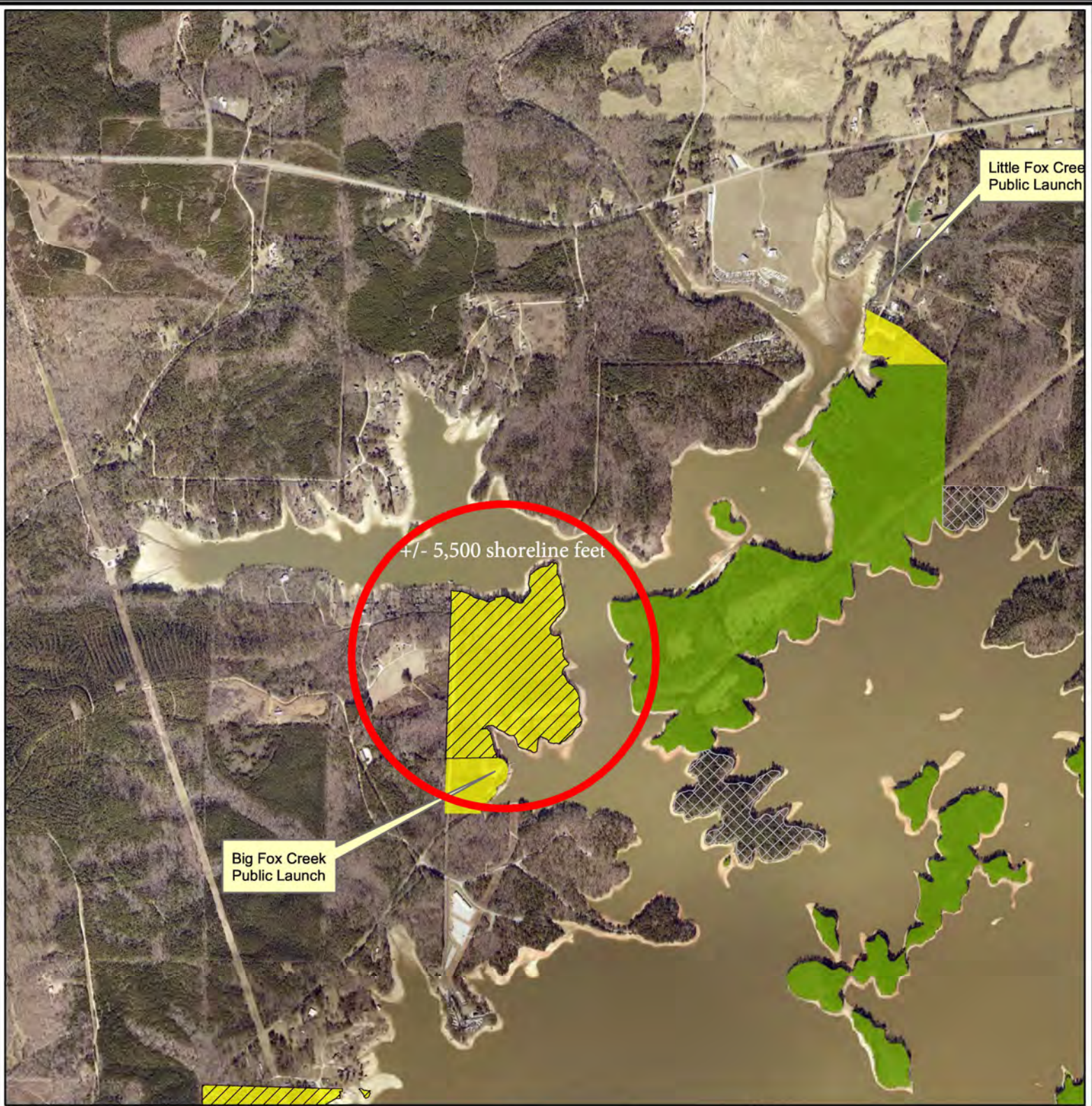
## RC7\* – Reclassify from Recreation to Natural/Undeveloped + /- 57 acres

- Area is not currently used for recreation purposes and is separated by forested land; not designated for future expansion due to proximity of the transmission line corridor and adjacent private development
- Reclassify based upon results of the Flat Rock Botanical Inventory discussed in Section 6.0 of the Phase 1 Project Lands Study Report.
- Reclassify remaining acreage located to the west of the Flat Rock Botanical Inventory area to provide continuity of land use and aid in the protection of the adjacent Natural/Undeveloped Project lands

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	

\*The information presented at the September 11, 2019 HAT 4 meeting stated this reclassification totaled 40 acres. However, following the meeting, a mapping error of the area included within the botanical survey was discovered. Therefore, the acreage and map provided in this report does not match the information presented at the HAT 4 meeting but rather correctly states the proposed reclassification.



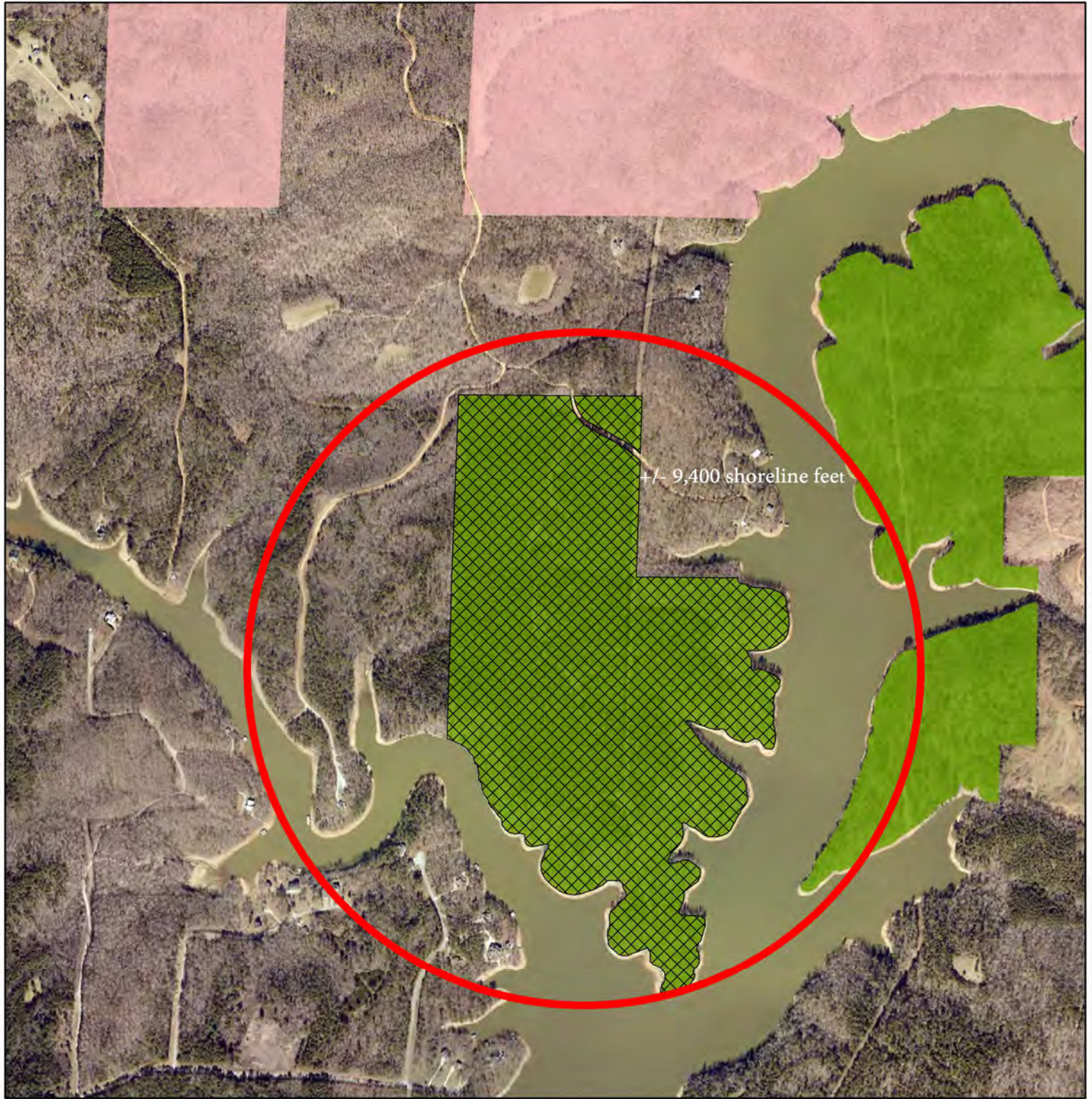


## RC8 – Reclassify from Recreation to Natural/ Undeveloped +/- 50 acres

- Large tract of land was included within the original Project Boundary for the purpose of constructing a public recreation site within this area; location of the existing Big Fox Creek Public Launch was determined to be the best location for the now constructed public launch; southern portion of the large, which encompasses Big Fox Creek Public Launch, will remain classified as Recreation and includes adequate acreage for current and future needs; remainder of the tract was determined no longer needed for Recreation purposes
- Reclassification to Natural/Undeveloped will aid in the maintenance of natural aesthetics and will serve as a buffer zone around the existing public recreation area

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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0 0.075 0.15 0.3 0.45 0.6 Miles

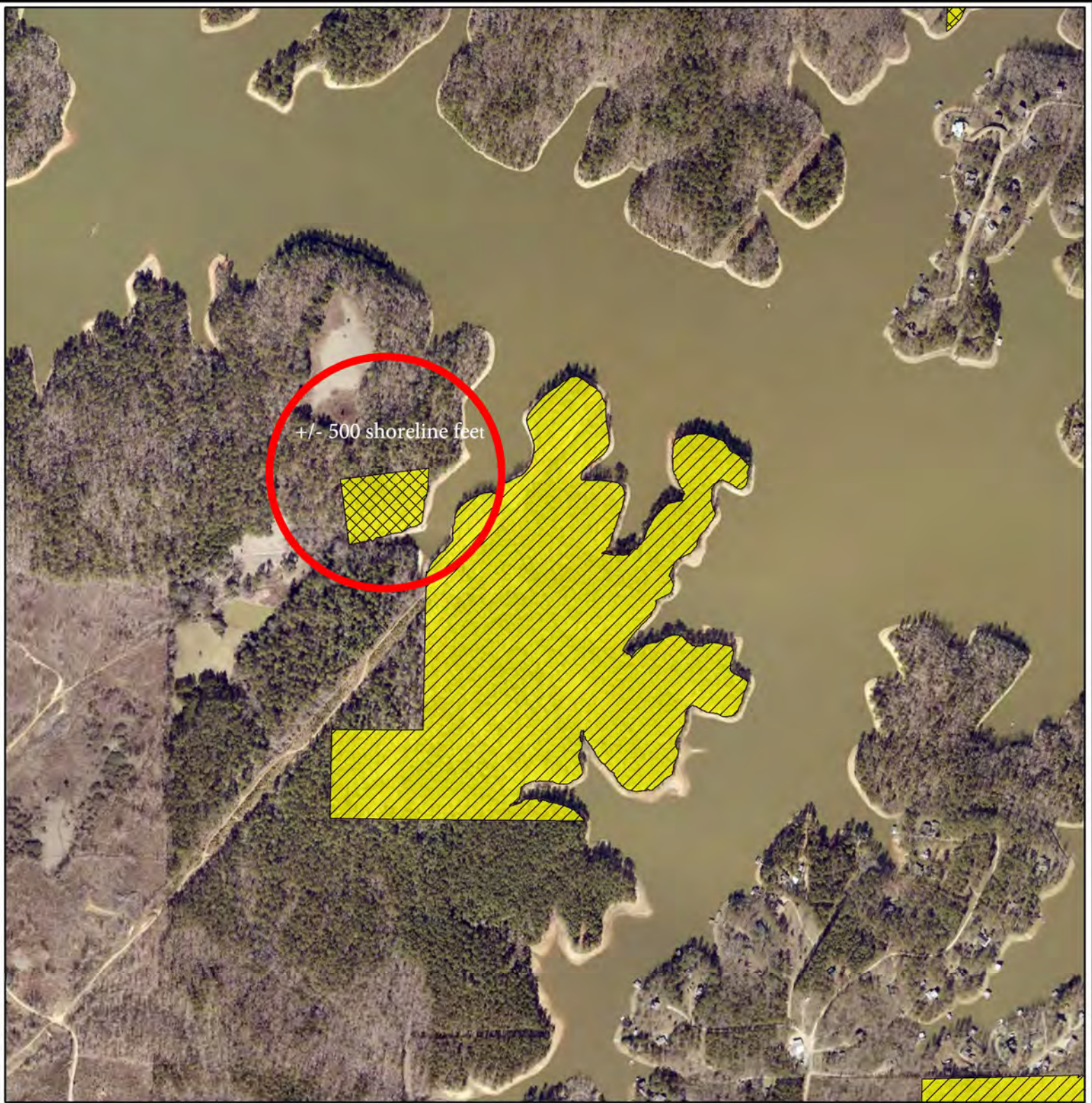


## *R1 – Remove +/- 149 acres of Natural Undeveloped*

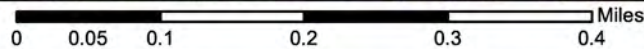
- Improved road on the north for access to existing development to the east/northeast of this tract
- Not suitable for hunting lands due to its proximity to non-project (private) development.
- Not suitable for recreation due to limited access and location within area of lake with limited demand for public recreation opportunities

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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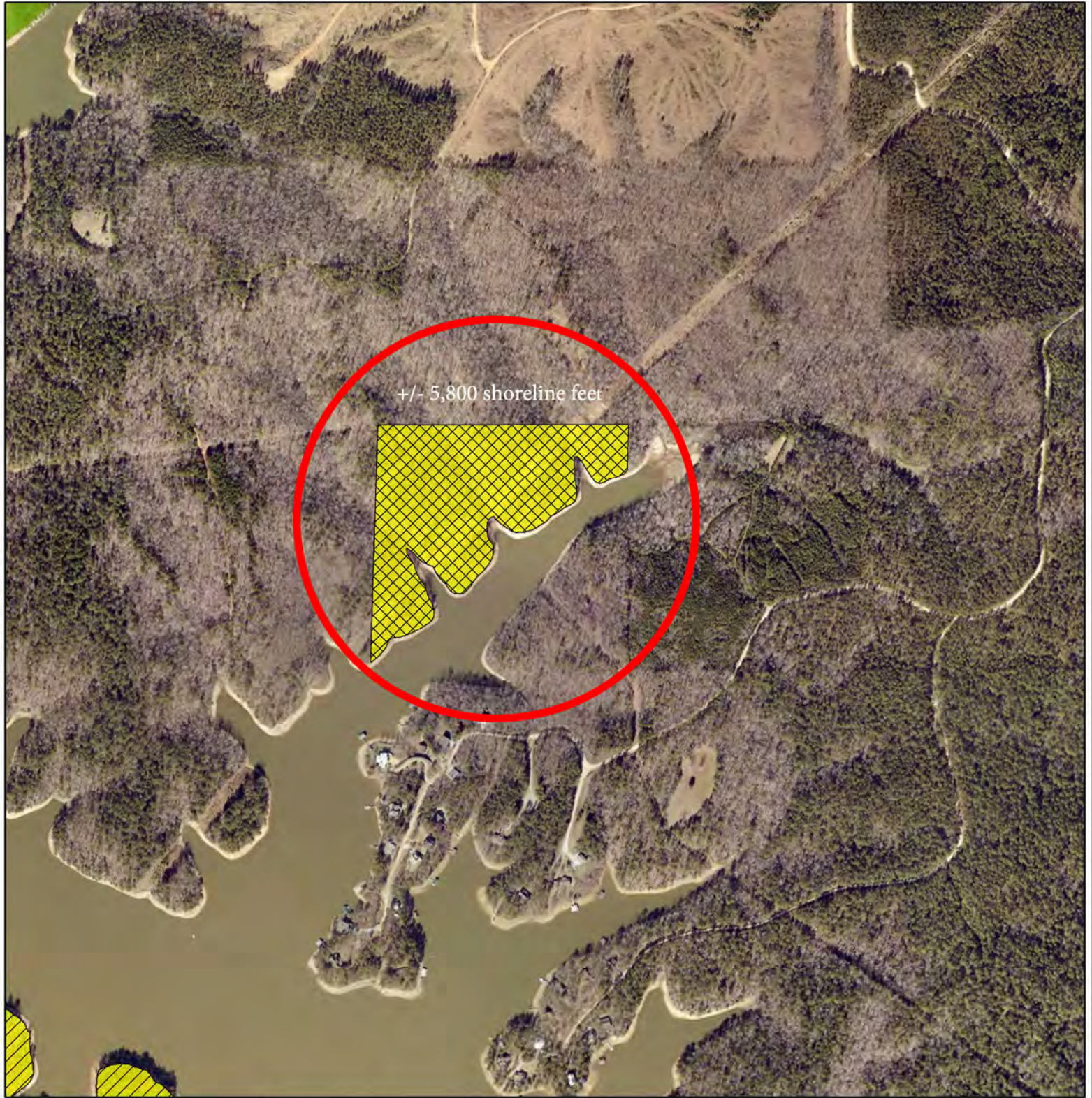
## *R2 – Remove +/- 3 acres of Recreation*

- Included as part of the original Project Boundary as Recreation because located at an old road end
- Small tract; not adjacent to existing Project lands or proposed additions to Project lands
- Not suitable for hunting lands due to its small size
- Not suitable for recreation due location within a slough and location within area of lake with limited demand for public recreation opportunities
- Not suitable for natural/undeveloped due to proximity to proposed future developments

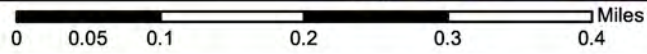
### Legend

Baseline Classifications	Proposed Changes
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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### *R3 – Remove +/- 20 acres of Recreation*

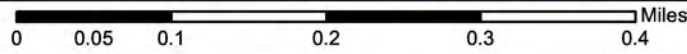
- Added to the Project Boundary as Natural Undeveloped during 1995 Land Use Plan update for use by the Boy Scouts; use never transpired due to limited access
- Not suitable for recreation due to its location within area of lake with limited demand for public recreation opportunities
- Not suitable for hunting due to small size and not located adjacent to existing Project lands
- Not suitable for natural/undeveloped due to proximity to proposed future developments

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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## R4 – Remove +/- 61 acres of Natural Undeveloped

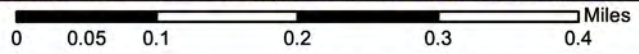
- Tip of peninsula is privately owned
- Not suitable for natural/undeveloped due to proposed future development of privately-owned tip, which will result in the need to cross Project lands with access roads and utilities
- Not suitable for recreation due to its location within area of lake with limited demand for public recreation opportunities
- Not suitable for hunting due to shape of tract and proximity to private development

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





+/- 2,700 shoreline feet



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### R5 – Remove +/- 19 acres of Recreation

- Land locks privately-owned tracts with Project Boundary; history of issues concerning granted access for private development
- Not suitable for natural/undeveloped due to proximity to private development of peninsula, which has (and will continue to) result in the need to cross Project lands with access roads and utilities
- Not suitable for recreation due to its location within area of lake with limited demand for public recreation opportunities
- Not suitable for hunting due to due to its small size and proximity to private development

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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0 0.05 0.1 0.2 0.3 0.4 Miles



### *R6 – Remove +/- 37 acres of Natural/Undeveloped*

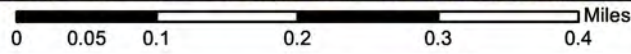
- Land locks privately-owned tracts with Project Boundary; history of issues concerning granted access for private development
- Not suitable for natural/undeveloped due to proximity to private development of peninsula, which has (and will continue to) result in the need to cross Project lands with access roads and utilities
- Not suitable for recreation due to its location within area of lake with limited demand for public recreation opportunities
- Not suitable for hunting due to its small size and proximity to private development

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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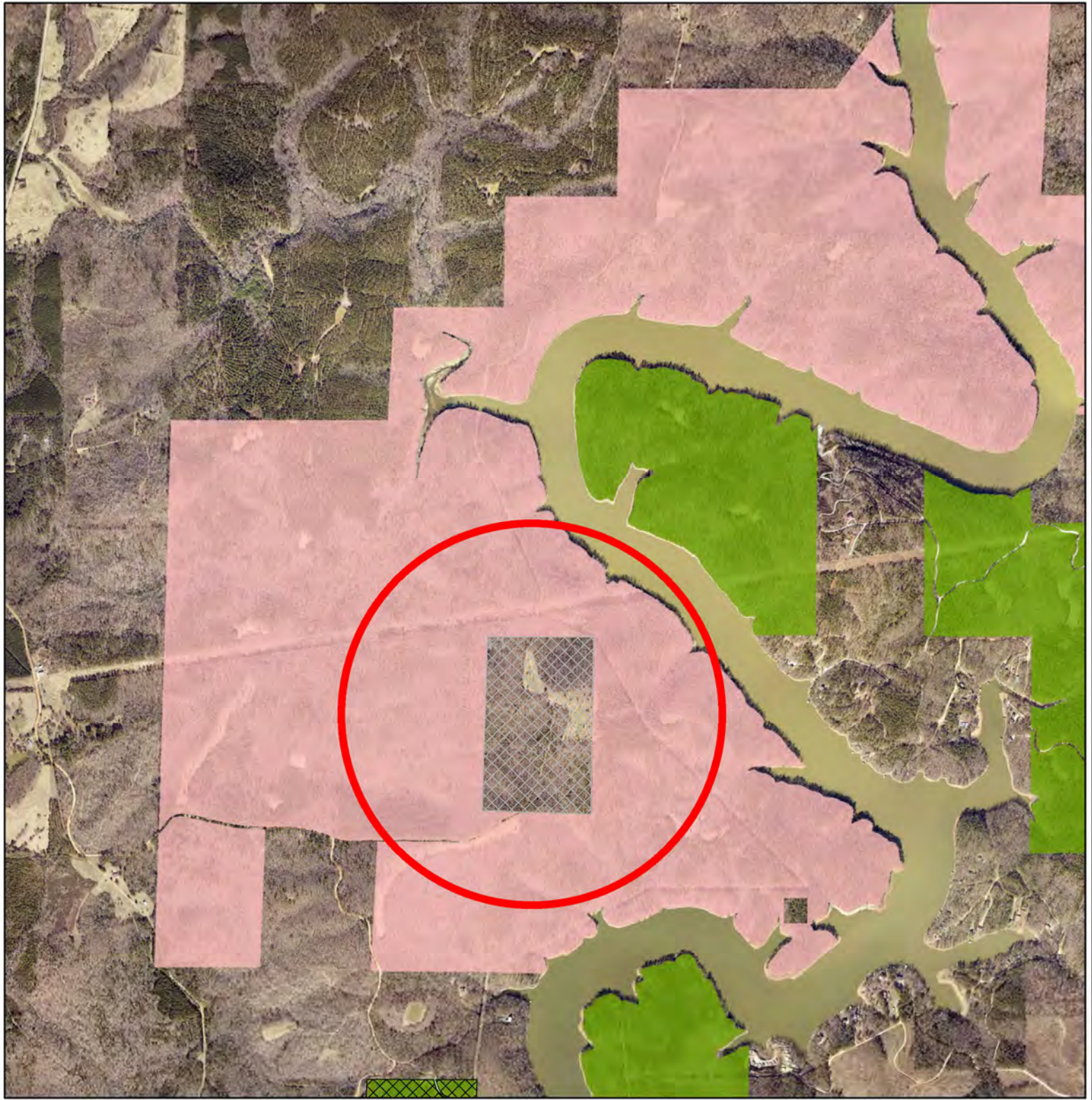


### *R7 – Remove +/- 9 acres of Recreation*

- Part of the original Project Boundary as recreation for future development of an overlook
- Adjacent to another Project lands tract that land locks privately-owned tracts with Project Boundary; proposing to also remove adjacent project lands
- Not suitable for natural/undeveloped due to proximity to private development
- Not suitable for recreation due to its location within area of lake with limited demand for public recreation opportunities; property is not located on shoreline
- Not suitable for hunting due to its small size and proximity to private development

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	



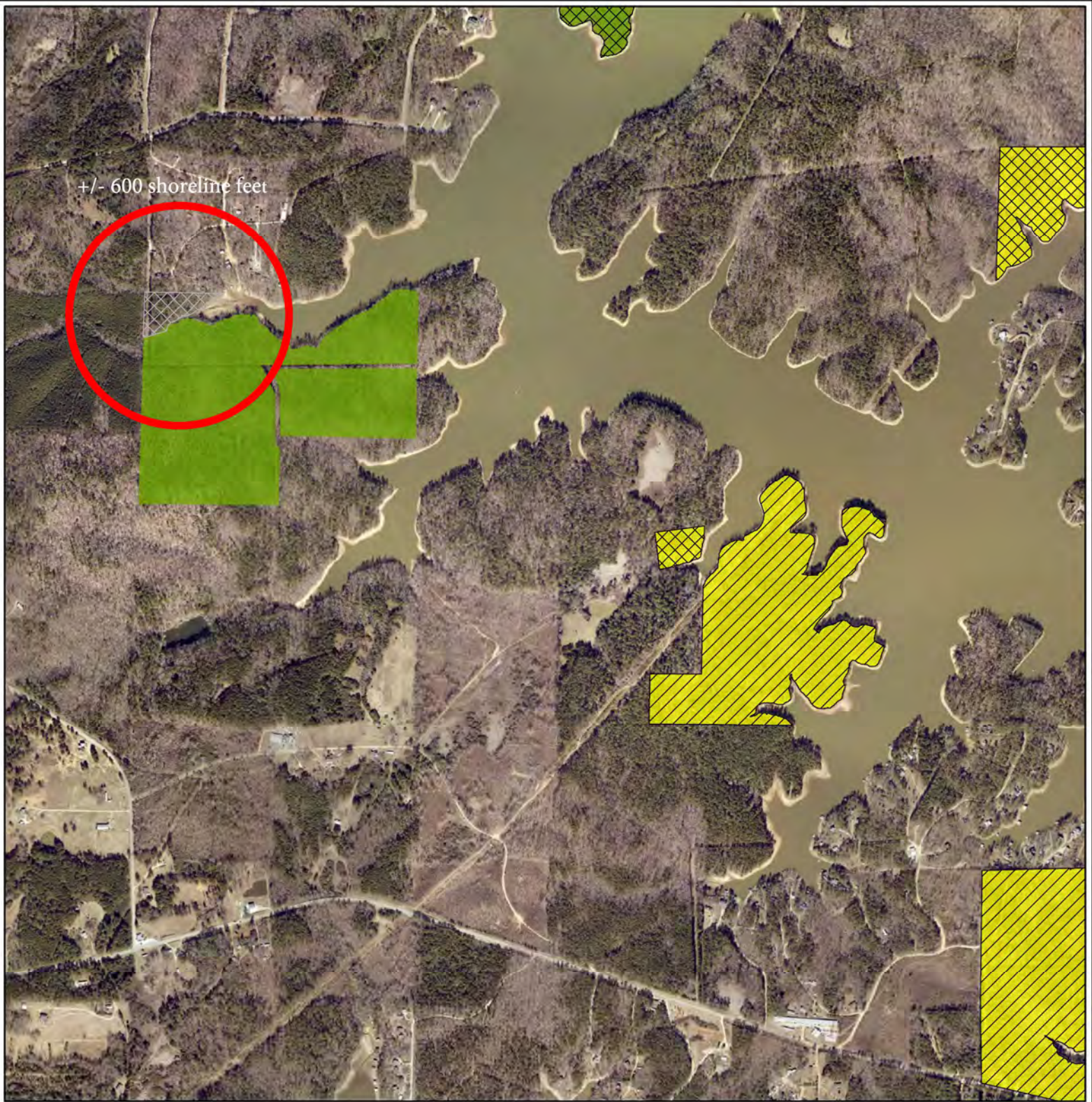


## A1 – Add +/- 64 acres as Hunting Lands

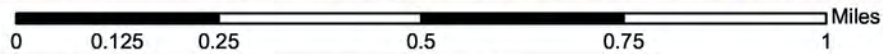
- Property fills a “donut hole” within current Project lands classified as Hunting

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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## A2 – Add +/- 4 acres as Natural/ Undeveloped lands

- Small tract adjacent to existing Project lands classified as Natural/Undeveloped
- Adding tract provides consistency of land use and will aid in the protection of the adjacent Natural/Undeveloped Project lands

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





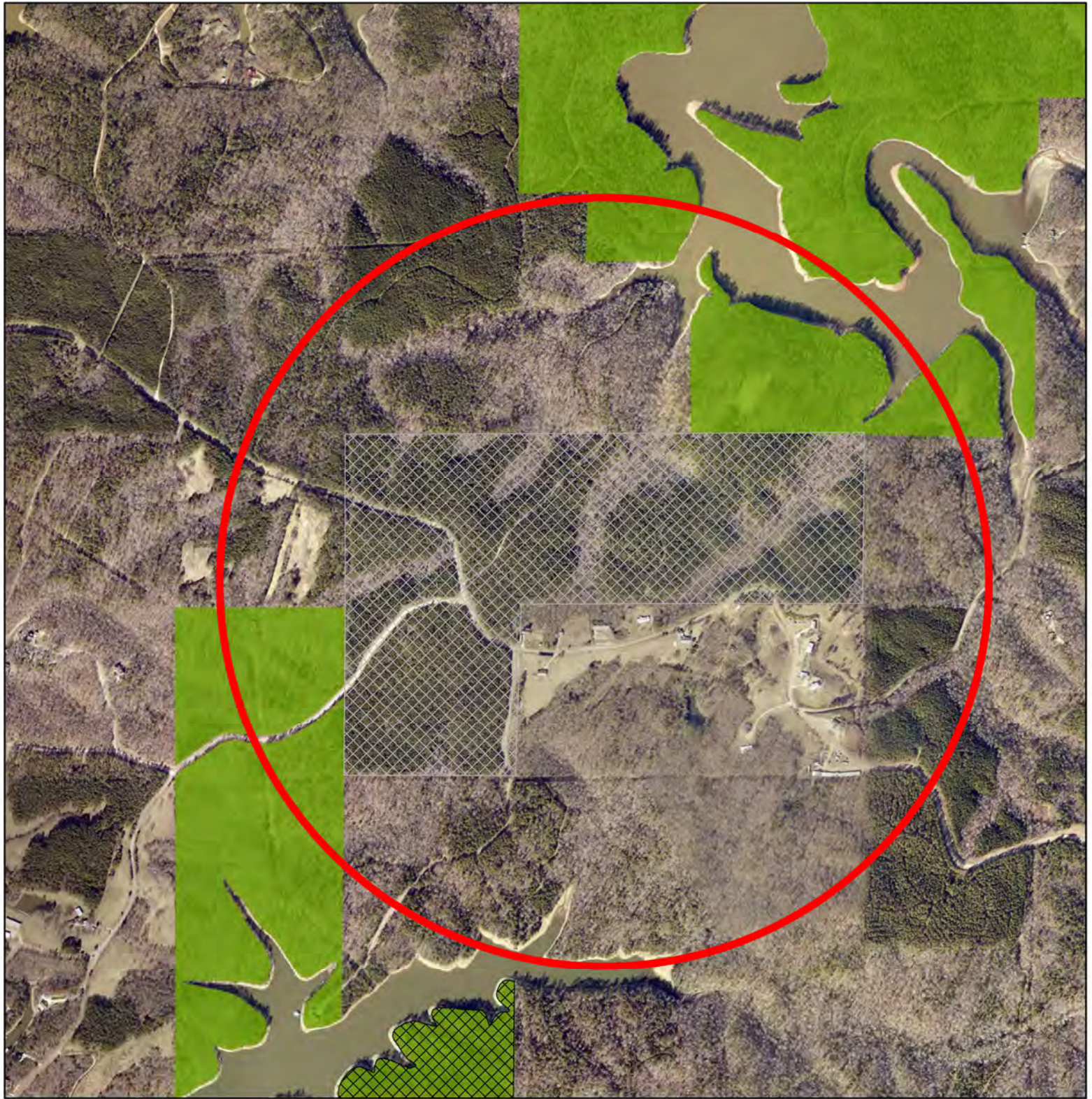
### ***A3 – Add +/- 2 acres as Commercial Recreation lands***

- Small tract adjacent to large tract currently classified as Recreation; adjacent tract is large tract on which the shoreline office and Widowee Marine South are located
- Adjacent 147.94-acre tract is proposed to be reclassified to Commercial Recreation
- Adding tract provides consistency of land use and additional acreage (with shoreline) to be used as commercial recreation

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	







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0 0.1 0.2 0.4 0.6 0.8 Miles

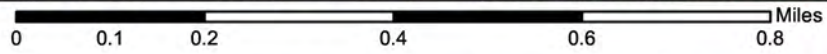
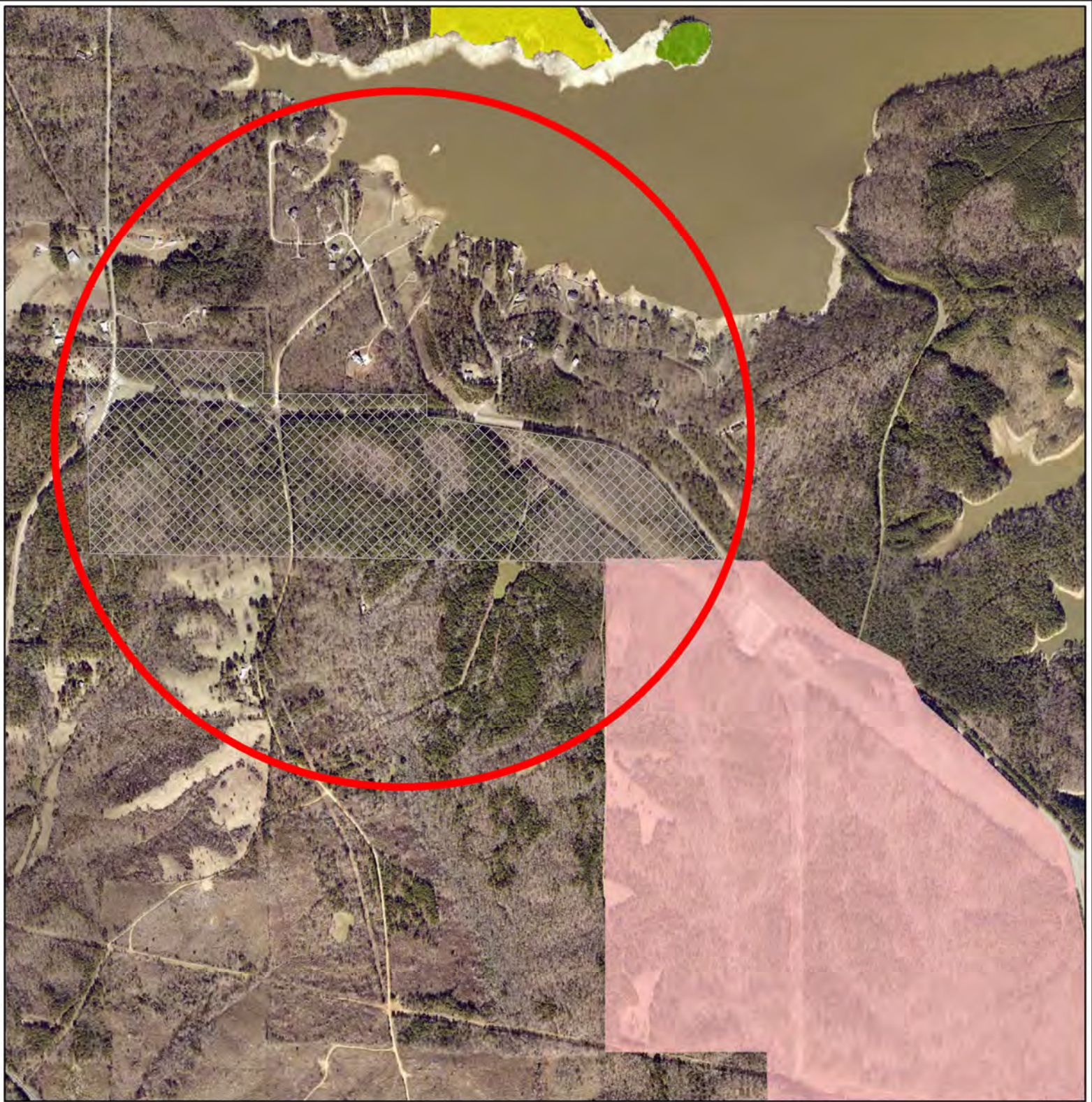


**A4 – Add +/- 160 acres as Natural/  
 Undeveloped lands**

- Bordered by Natural/Undeveloped Project lands to the north and to the south
- Adding tract provides consistency of land use and will aid in the protection of the adjacent Natural/Undeveloped Project lands

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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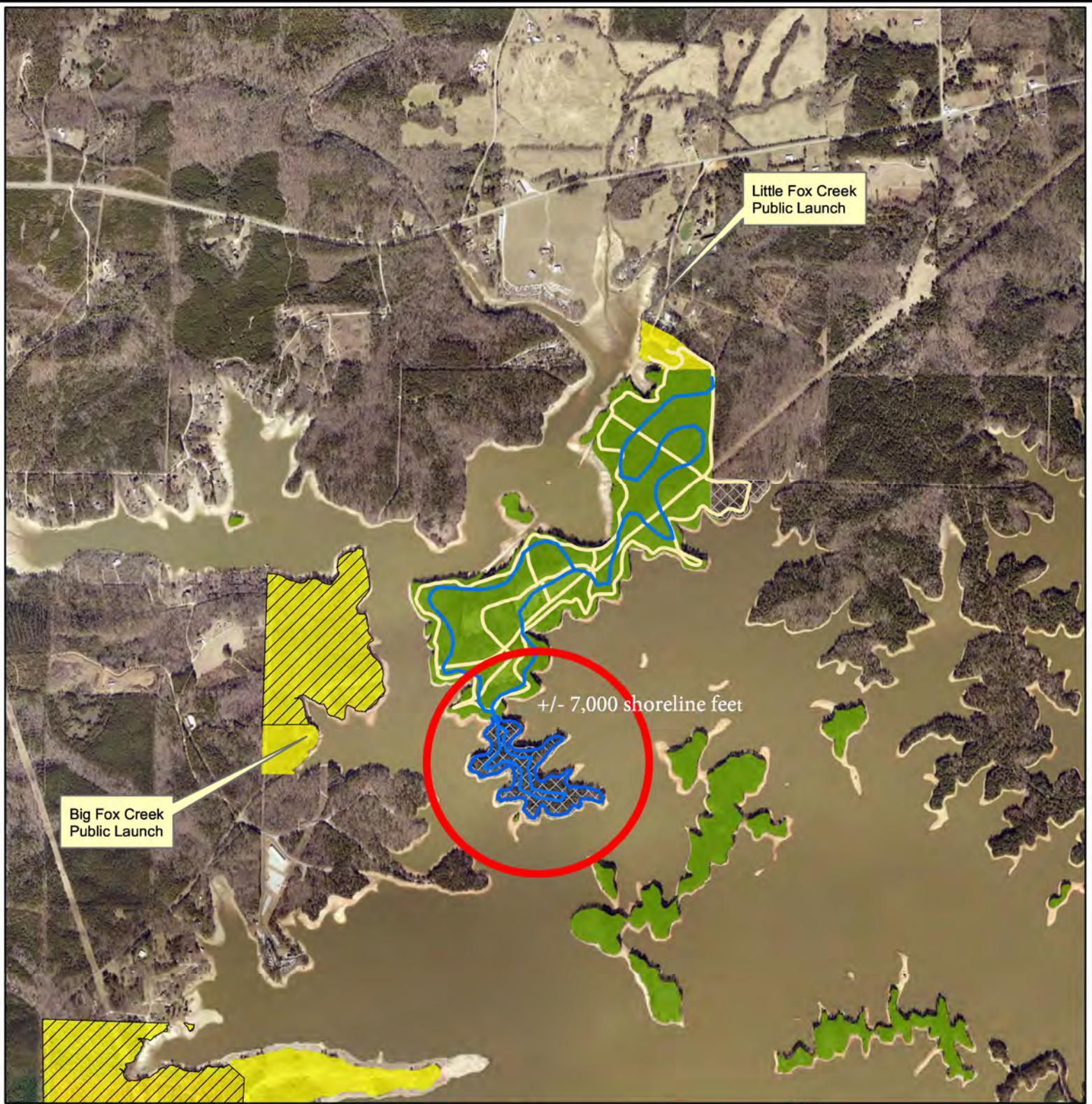


### *A5 – Add +/- 157 acres as Hunting lands*

- Adjacent to existing Project lands classified as Hunting, which are designated specifically as hunting lands for the disabled
- Adding tract will provide acreage for future expansion of the disabled hunting area if needed

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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## A6 – Add +/- 14 acres as Natural/Undeveloped lands

- Adjacent to existing Project lands classified as Natural/Undeveloped; adjacent Project lands include birding trail extending from Little Fox Creek public recreation site
- Adding tract provides consistency of land use and additional acreage for future expansion of birding trail

**Legend**

Baseline Classifications	Proposed Changes
<span style="color: green;">■</span> Natural Undeveloped	<span style="border: 1px dashed black; display: inline-block; width: 15px; height: 10px;"></span> Proposed Reclassifications
<span style="color: pink;">■</span> Hunting Lands	<span style="border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Proposed Removals
<span style="color: red;">■</span> Prohibited Access	<span style="border: 1px dotted black; display: inline-block; width: 15px; height: 10px;"></span> Proposed Additions
<span style="color: yellow;">■</span> Recreation	

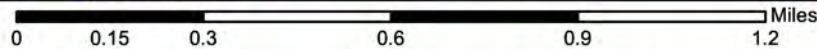
  

<span style="color: blue;">~</span>	Conceptual Future Birding Trails
<span style="color: yellow;">~</span>	Existing Birding Trails





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## A7 – Add +/- 6 acres as Natural/Undeveloped lands

- Adjacent to existing project lands classified as natural/undeveloped
- Adding tract provides consistency of land use and will aid in the protection of the adjacent Natural/Undeveloped Project lands

Legend	
<b>Baseline Classifications</b>	<b>Proposed Changes</b>
Natural Undeveloped	Proposed Reclassifications
Hunting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	





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0 0.04 0.08 0.16 0.24 0.32 Miles



## A8 – Add +/- 0.25 acres as Natural/ Undeveloped lands

- Two small tips of a peninsula; adjacent portion of peninsula is currently within the Project Boundary and classified as Natural Undeveloped
- Adding tracts provides consistency of land use and will aid in the protection of the adjacent Natural/Undeveloped Project lands

### Legend

Baseline Classifications	Proposed Changes
Natural Undeveloped	Proposed Reclassifications
Hurting Lands	Proposed Removals
Prohibited Access	Proposed Additions
Recreation	

## **APPENDIX C**

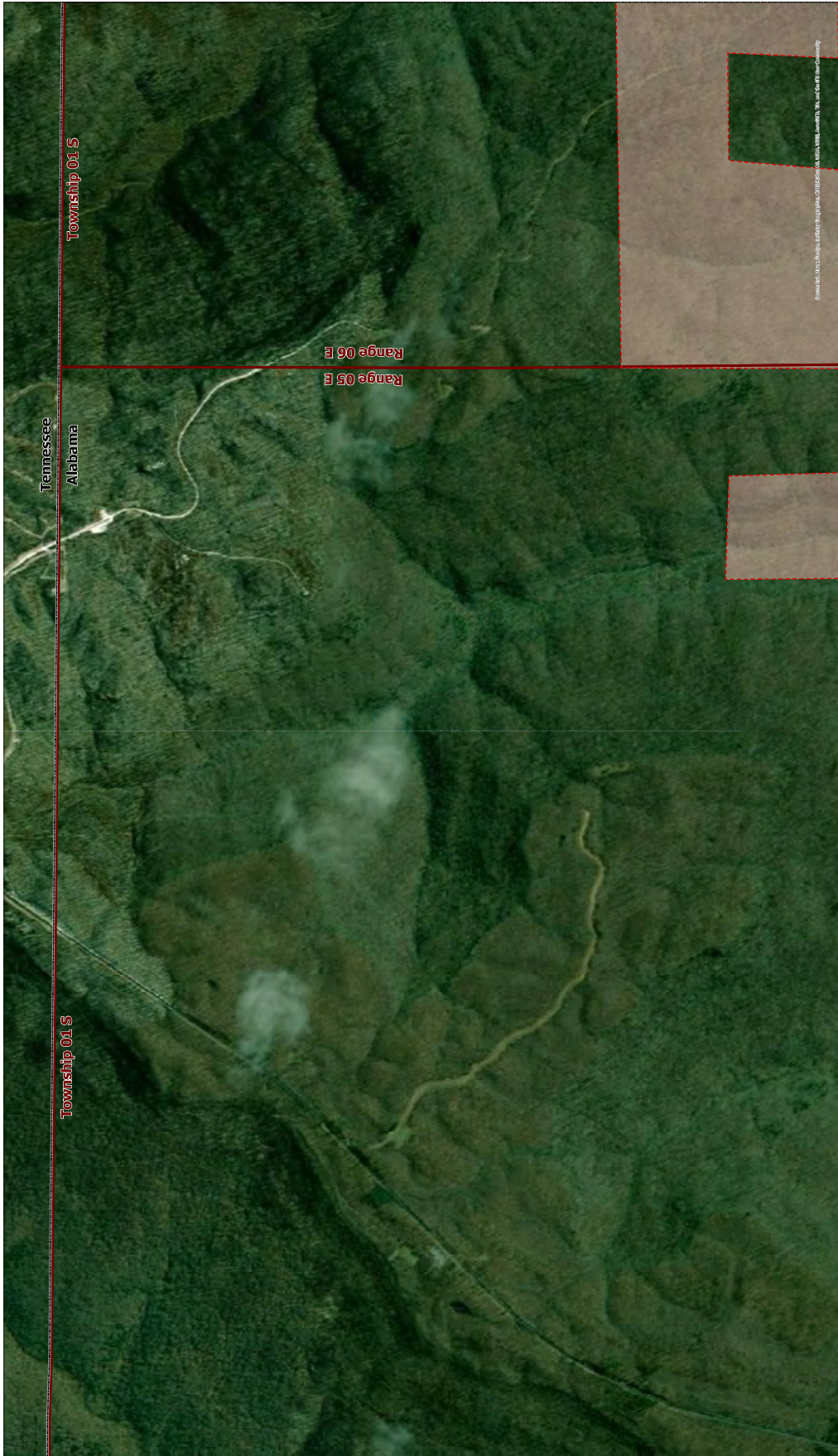
### **LARGE SCALE MAPS OF R.L. HARRIS PROJECT LANDS**

---



# JACKSON COUNTIES T 01 S R 05-06 E

Sheet 2



Sheet 4

<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DATE: PROJECT SMP CLASSIFICATION	
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 1	OF 38 SHEETS

**PROJECT BOUNDARY DESCRIPTION**

- PROJECT BOUNDARY (Red dashed line)
- PROHIBITED ACCESS (Red solid line)
- RECREATION (Yellow solid area)
- PROPOSED REMOVALS (Cross-hatched area)
- NATURAL UNDEVELOPED (Green solid area)
- HUNTING LANDS (Pink solid area)
- PROPOSED RECLASSIFICATION (Blue hatched area)
- PROPOSED ADDITIONS (Grey hatched area)

**INDEX**

SHEET INDEX



# JACKSON COUNTIES T 01 S R 06 E



Sheet 3

Sheet 1

Sheet 5

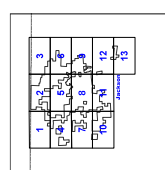
<b>ALABAMA POWER COMPANY</b> BRIMMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DESIGN: PROJECT SMP CLASSIFICATION	DATE: JULY 11, 2020
DRAWN BY: DLM	SHEETS: 38
SHEET NO.: 2	OF: 38

**PROJECT BOUNDARY DESCRIPTION**

- PROJECT BOUNDARY (Red dashed line)
- PROHIBITED ACCESS (Red solid line)
- RECREATION (Yellow solid area)
- PROPOSED REMOVALS (Hatched area)
- PROPOSED ADDITIONS (Hatched area)
- NATURAL UNDEVELOPED (Brown solid area)
- HUNTING LANDS (Green solid area)
- PROPOSED RECLASSIFICATION (Hatched area)

Scale: 0 100 200 500 1000 1500 Feet

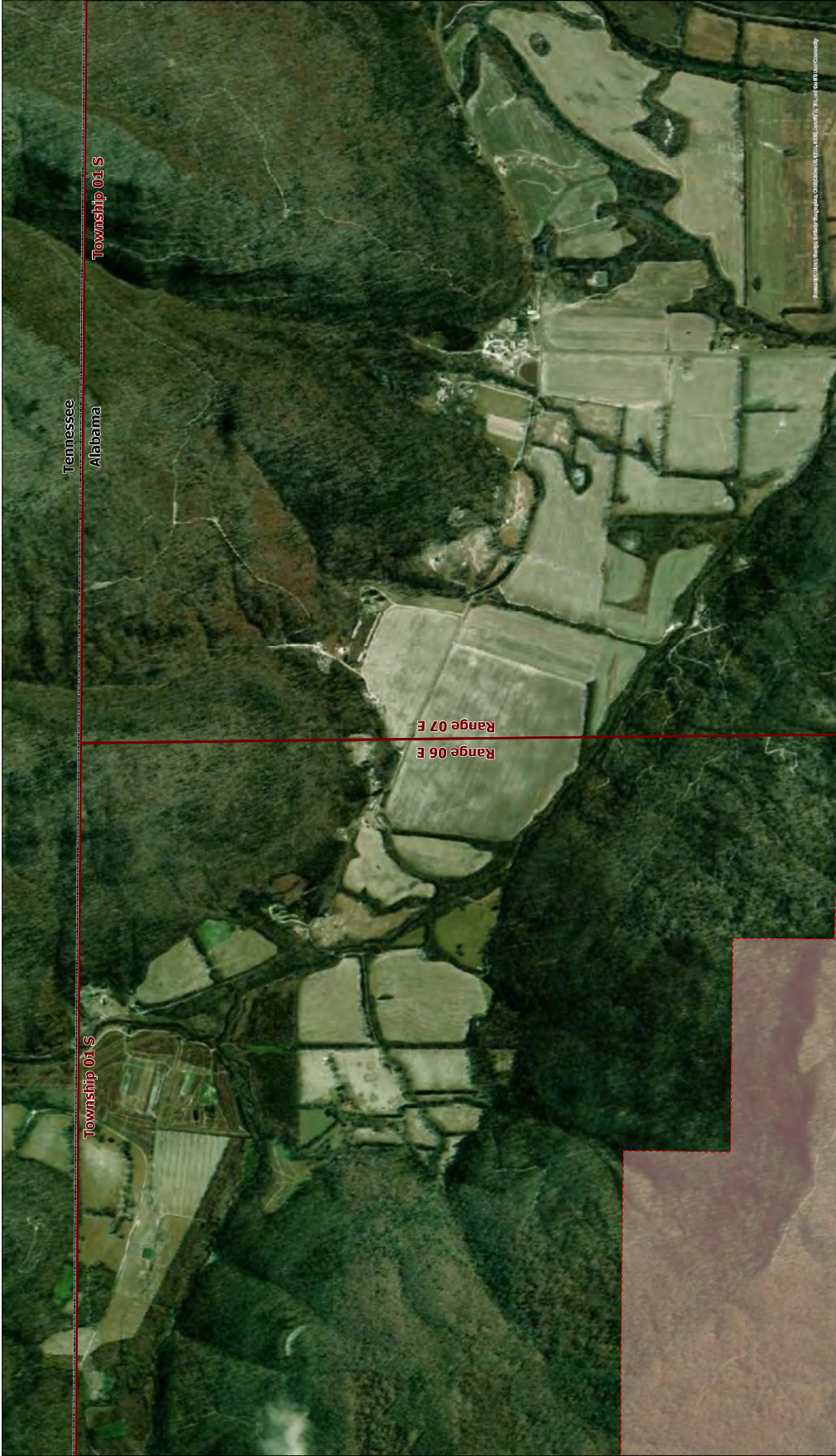
North Arrow



SHEET INDEX

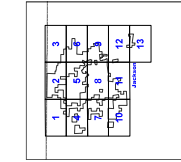


# JACKSON COUNTIES T 01 S R 06-07 E



Sheet 2

Sheet 5



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS

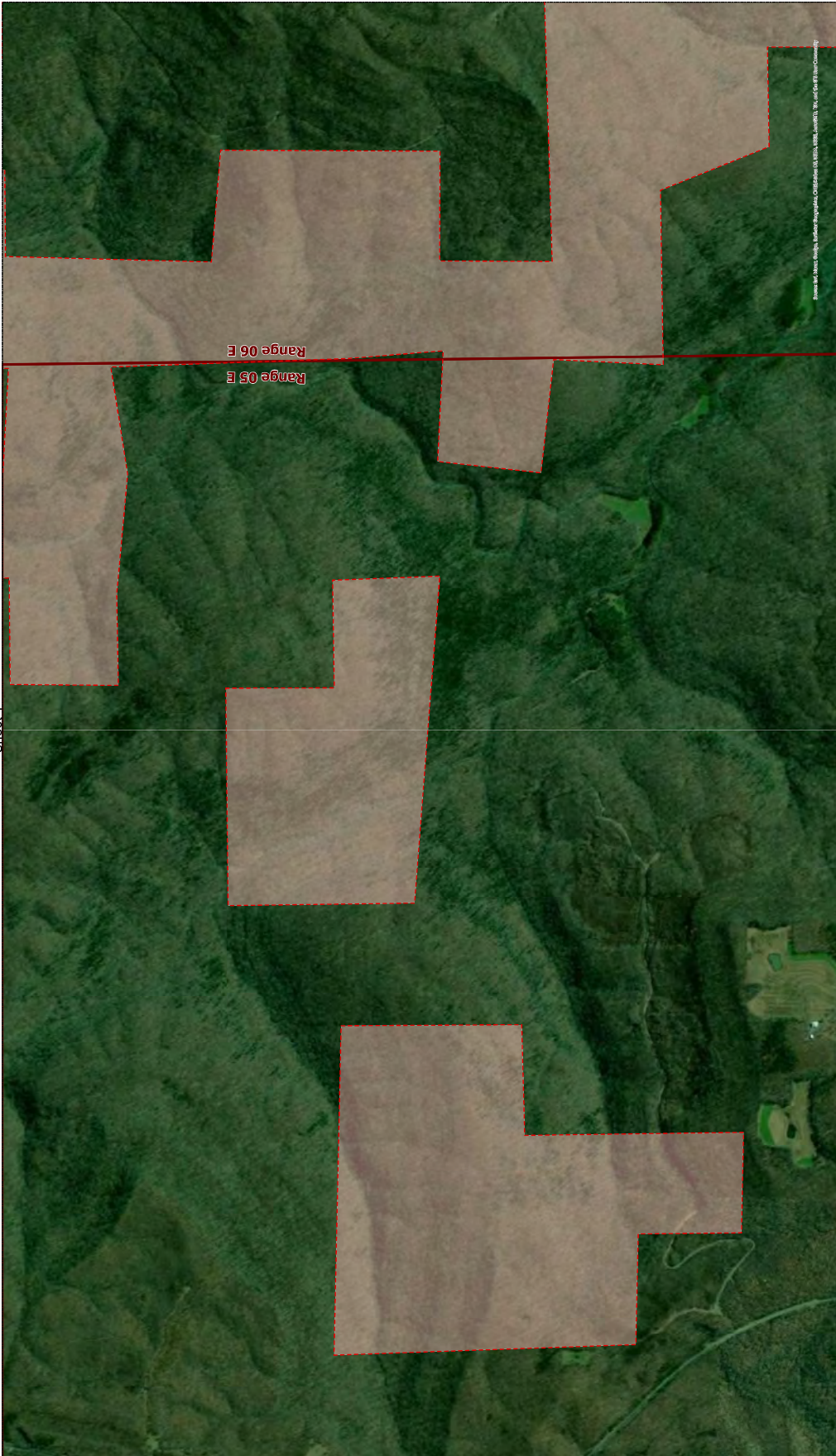


<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 3	OF 38 SHEETS



**JACKSON COUNTIES**  
**T 01 S R 05-06 E**

Sheet 1



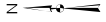
Sheet 5

Sheet 7

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15

SHEET INDEX

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



**ALABAMA POWER COMPANY**  
 BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628

DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 4 OF 38 SHEETS



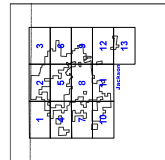
**JACKSON COUNTIES**  
**T 01 S R 06 E**

Sheet 2

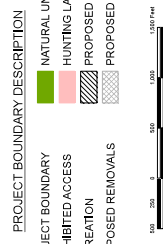


Sheet 4

Sheet 8



SHEET INDEX



**ALABAMA POWER COMPANY**  
 BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628  
 DESIGN: PROJECT SMP CLASSIFICATION  
 DRAWN BY: DLM DATE: JULY 11, 2020  
 SHEET NO. 5 OF 38 SHEETS



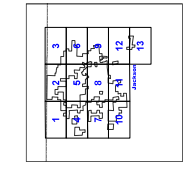
**JACKSON COUNTIES**  
**T 01 S R 06-07 E**

Sheet 3



Sheet 5

Sheet 9



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DESIGN PROJECT SMP CLASSIFICATION	DLM
DRAWN BY	DATE
SHEET NO. 6 OF 38 SHEETS	JULY 11, 2020

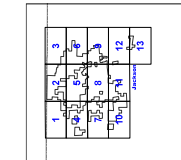


**JACKSON COUNTIES**  
**T 01 S R 05-06 E**

Sheet 4



Sheet 10



SHEET INDEX

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 7	OF 38 SHEETS

Sheet 8

Source: Aerial Imagery, Google Earth Pro, 2019. Data provided by the Alabama Department of Conservation and Forestry.



# JACKSON COUNTIES T 01 S R 06 E

Sheet 5



Sheet 9

Sheet 11

<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 9	OF 38 SHEETS

**PROJECT BOUNDARY DESCRIPTION**

- PROJECT BOUNDARY
- NATURAL UNDEVELOPED
- HUNTING LANDS
- PROHIBITED ACCESS
- RECREATION
- PROPOSED REMOVALS
- PROPOSED RECLASSIFICATION
- PROPOSED ADDITIONS

**INDEX**

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15

**SHEET**

100 200 500 1000 1500 Feet

**N**

Sheet 7



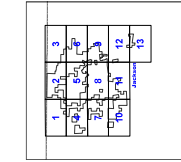
# JACKSON COUNTIES T 01 S R 06-07 E

Sheet 6



Sheet 8

Sheet 12



SHEET INDEX

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



**ALABAMA POWER COMPANY**

BRIMMINGHAM, ALA.  
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622

DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

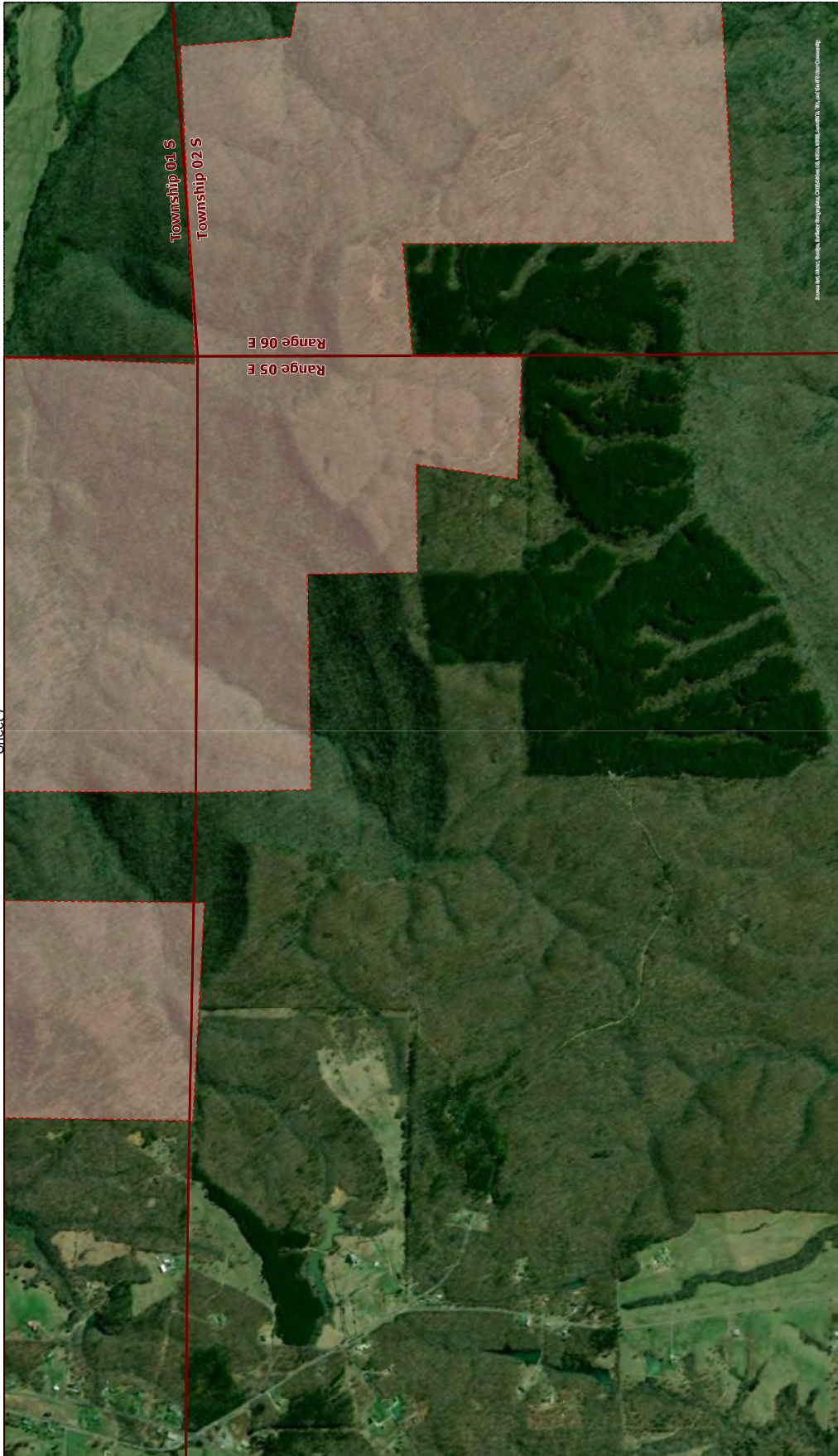
SHEET NO. 9 OF 38 SHEETS



**JACKSON COUNTIES**  
**T 01-02 S R 05-06 E**

Sheet 7

Sheet 11



Source: Aerial Imagery, Lantana Technologies, Charleston, SC. © 2019 Lantana Technology

**ALABAMA POWER COMPANY**  
 BIRMINGHAM, ALA.

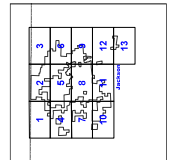
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622

DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 10 OF 38 SHEETS

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS

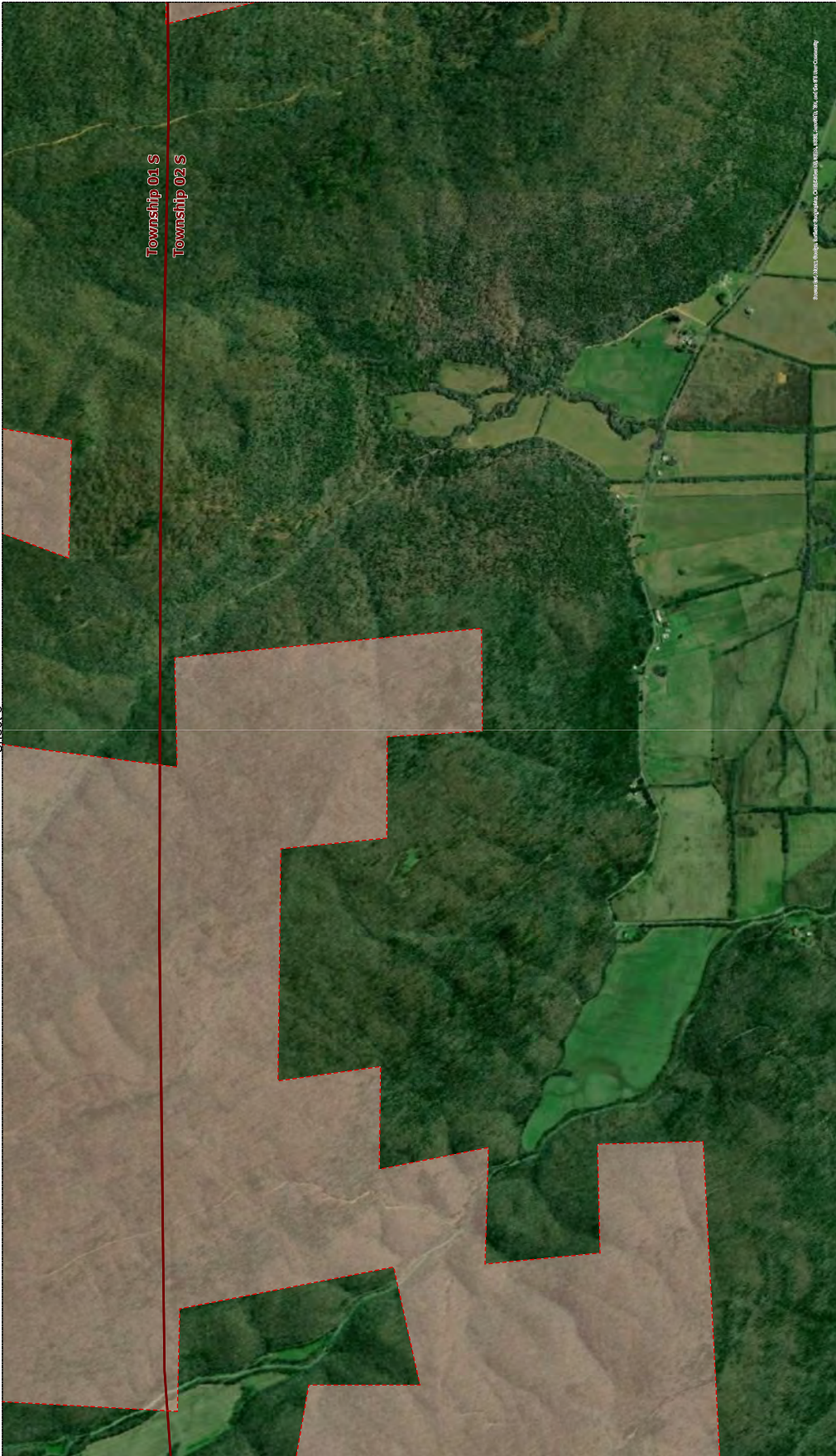


SHEET INDEX



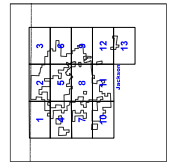
# JACKSON COUNTIES T 01-02 S R 06 E

Sheet 8



Sheet 12

Sheet 10



SHEET INDEX

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



**ALABAMA POWER COMPANY**  
BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622

DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 11 OF 38 SHEETS



# JACKSON COUNTIES

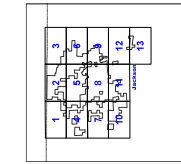
## T 01-02 S R 06-07 E

Sheet 9



Sheet 11

Sheet 13



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



**ALABAMA POWER COMPANY**  
BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622

DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 12 OF 38 SHEETS



# JACKSON COUNTIES T 02 S R 06-07 E

Sheet 12



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**ALABAMA POWER COMPANY**  
BIRMINGHAM, ALA.

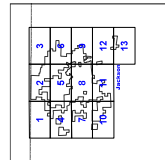
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622

DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 13 OF 38 SHEETS

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - PROHIBITED ACCESS
  - HUNTING LANDS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



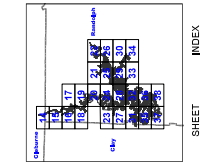
SHEET INDEX



# CLAY, CLEBURNE & RANDOLPH COUNTIES T 17-18 S R 09-10 E



Sheet 15



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



**ALABAMA POWER COMPANY**  
BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622

DATE: \_\_\_\_\_ PROJECT SMP CLASSIFICATION \_\_\_\_\_

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 14 OF 38 SHEETS

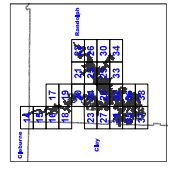


# CLAY & RANDOLPH COUNTIES T 18 S R 09-10 E

Sheet 14



Sheet 16



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - RECREATION
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 15	OF 38 SHEETS



# CLAY & RANDOLPH COUNTIES T 18 S R 09-10 E

Sheet 15



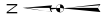
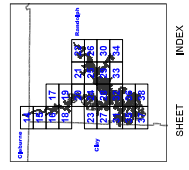
Sheet 17

Approved: State, County, and Local Government Officials as well as the Authority for the CC&P Environmental

Sheet 18

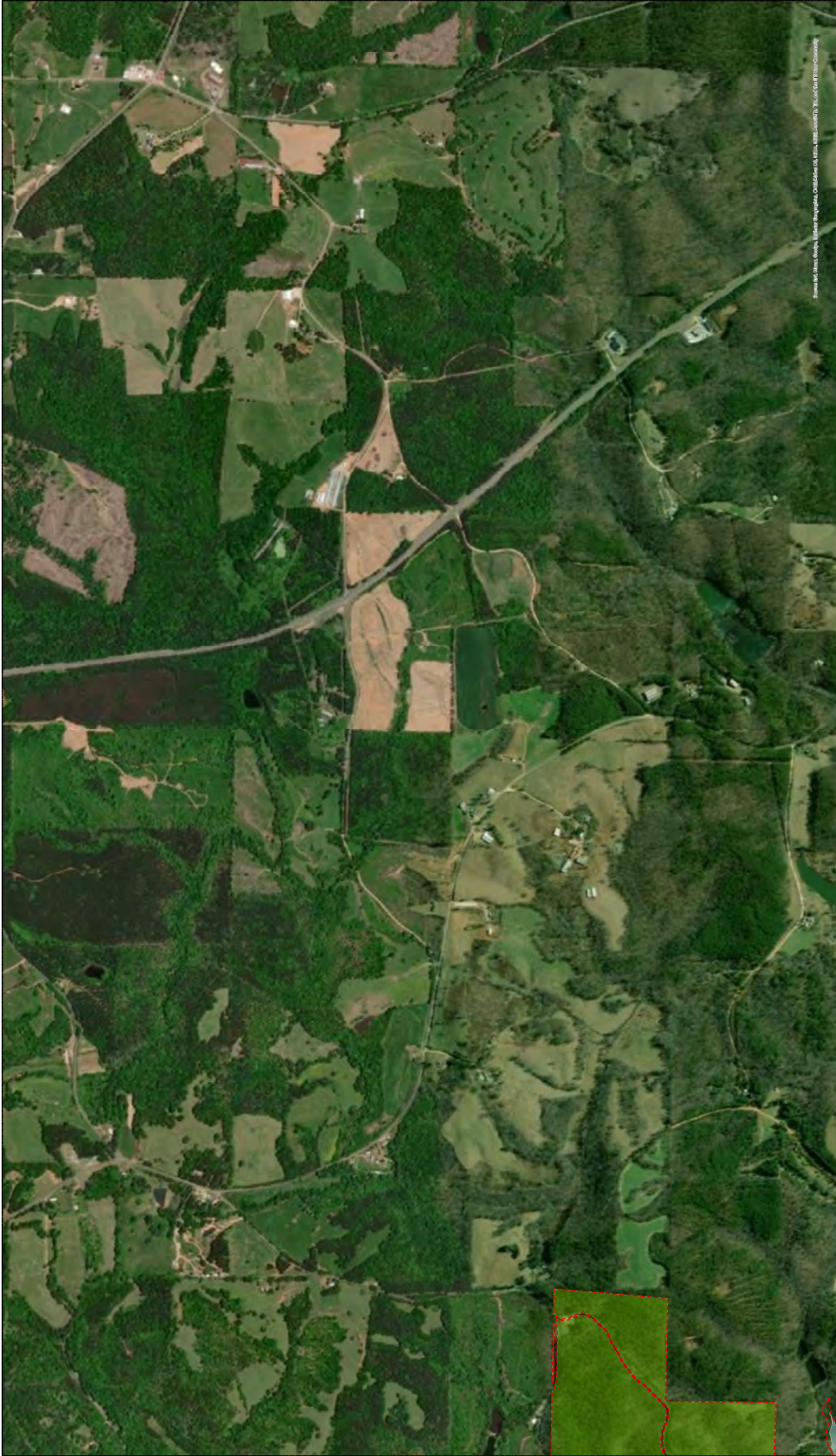
<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 16 OF 38 SHEETS	

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS





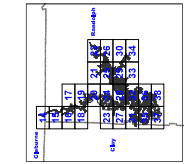
**RANDOLPH COUNTY**  
**T 18 S R 10 E**



Sheet 16

Source: Aerial Imagery, Google Earth Pro, 2020. Copyright © 2020 Google Earth Pro

Sheet 19



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 17	OF 38 SHEETS

SHEET INDEX



# CLAY & RANDOLPH COUNTIES

## T 18-19 S R 09-10 E

Sheet 16

Sheet 19



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<b>ALABAMA POWER COMPANY</b> BRIMMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DESIGN: PROJECT SMP CLASSIFICATION	DATE: JULY 11, 2020
DRAWN BY: DLM	SHEETS: 38
SHEET NO. 18 OF 38 SHEETS	

**PROJECT BOUNDARY DESCRIPTION**

	PROJECT BOUNDARY		NATURAL UNDEVELOPED
	PROHIBITED ACCESS		HUNTING LANDS
	RECREATION		PROPOSED RECLASSIFICATION
	PROPOSED REMOVALS		PROPOSED ADDITIONS

INDEX

SHEET



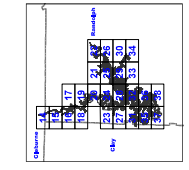
**RANDOLPH COUNTY  
T 18-19 S R 10 E**

Sheet 17



Sheet 19

Sheet 20



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



**ALABAMA POWER COMPANY**  
BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622

DATE: \_\_\_\_\_ PROJECT SMP CLASSIFICATION: \_\_\_\_\_

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 19 OF 38 SHEETS

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**RANDOLPH COUNTY**  
**T 19 S R 10 E**

Sheet 19

Sheet 21



Source: Aerial Imagery, Google Earth, 2019. Digitized by ALABAMA POWER COMPANY

Sheet 24

<b>ALABAMA POWER COMPANY</b> BRIMMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DESIGN: PROJECT SMP CLASSIFICATION	DATE: JULY 11, 2020
DRAWN BY: DLM	SHEETS: 38
SHEET NO. 20 OF 38 SHEETS	

**PROJECT BOUNDARY DESCRIPTION**

- PROJECT BOUNDARY
- PROHIBITED ACCESS
- RECREATION
- PROPOSED REMOVALS
- NATURAL UNDEVELOPED
- HUNTING LANDS
- PROPOSED RECLASSIFICATION
- PROPOSED ADDITIONS

INDEX

N



**RANDOLPH COUNTY**  
**T 19 S R 10-11 E**

Sheet 22



Sheet 20

Sheet 25

<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DESIGN PROJECT SMP CLASSIFICATION	DATE
DRAWN BY: DLM	JULY 11, 2020
SHEET NO. 21	OF 38 SHEETS

**PROJECT BOUNDARY DESCRIPTION**

	PROJECT BOUNDARY		NATURAL UNDEVELOPED
	PROHIBITED ACCESS		HUNTING LANDS
	RECREATION		PROPOSED RECLASSIFICATION
	PROPOSED REMOVALS		PROPOSED ADDITIONS

N

SHEET INDEX

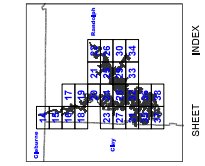


**RANDOLPH COUNTY**  
**T 19 S R 11-12 E**



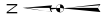
Sheet 21

Sheet 26



SHEET INDEX

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS

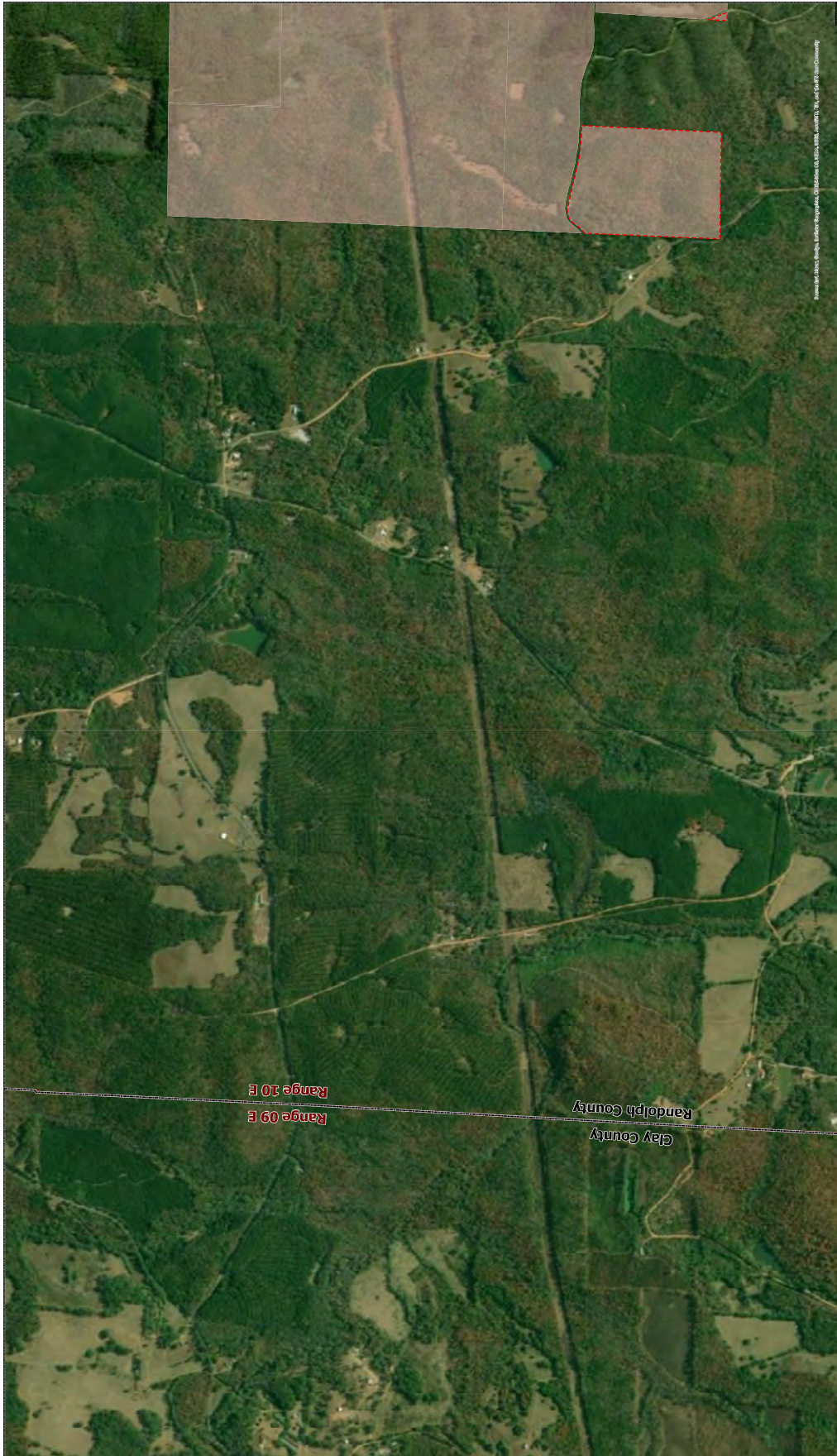


<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 22	OF 38 SHEETS



**CLAY & RANDOLPH COUNTIES**  
**T 19 S R 09-10 E**

Sheet 24



ALABAMA POWER COMPANY  
 BRIMMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628

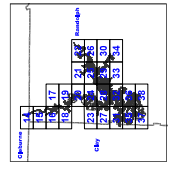
DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 23 OF 38 SHEETS

Sheet 27

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS









**RANDOLPH COUNTY  
T 19 S R 10-11 E**

Sheet 21



Sheet 26

Sheet 24

Sheet 29

<b>ALABAMA POWER COMPANY</b> BRIMMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DESIGN PROJECT SMP CLASSIFICATION	DATE: JULY 11, 2020
DRAWN BY: DLM	SHEETS: 38
SHEET NO.: 25	OF: 38

**PROJECT BOUNDARY DESCRIPTION**

- PROJECT BOUNDARY (Red dashed line)
- PROHIBITED ACCESS (Red solid line)
- RECREATION (Yellow solid line)
- PROPOSED REMOVALS (Black hatched pattern)
- NATURAL UNDEVELOPED (Green solid color)
- HUNTING LANDS (Pink solid color)
- PROPOSED RECLASSIFICATION (Blue hatched pattern)
- PROPOSED ADDITIONS (White hatched pattern)

**INDEX**

SHEET INDEX

Scale: 1" = 100'

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# RANDOLPH COUNTY T 19 S R 11-12 E

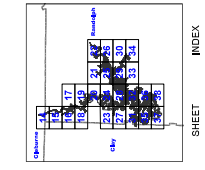
Sheet 22



Sheet 25

Downloaded from Google Earth on 07/11/2020. Coordinates: 33.1454, -85.4011

Sheet 30



- PROJECT BOUNDARY DESCRIPTION**
- - - PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 26	OF 38 SHEETS



# CLAY & RANDOLPH COUNTIES T 19 S R 09-10 E

Sheet 23



Sheet 28

Sheet 31

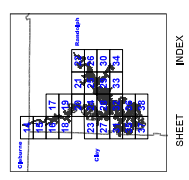
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SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 27	OF 38 SHEETS

**PROJECT BOUNDARY DESCRIPTION**

- PROJECT BOUNDARY
- NATURAL UNDEVELOPED
- HUNTING LANDS
- RECREATION
- PROHIBITED ACCESS
- PROPOSED REMOVALS
- PROPOSED RECLASSIFICATION
- PROPOSED ADDITIONS

Scale: 0 500 1000 FEET

North Arrow



INDEX SHEET



**RANDOLPH COUNTY**  
**T 19 S R 10 E**

Sheet 24



Sheet 29

Sheet 27

Sheet 32

<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 28	OF 38 SHEETS

**PROJECT BOUNDARY DESCRIPTION**

- PROJECT BOUNDARY
- NATURAL UNDEVELOPED
- HUNTING LANDS
- PROHIBITED ACCESS
- RECREATION
- PROPOSED REMOVALS
- PROPOSED RECLASSIFICATION
- PROPOSED ADDITIONS

**INDEX**

14	15	16	17	18	19
24	25	26	27	28	29
34	35	36	37	38	39

**SHEET**

100 200 500 1000 1500 Feet

N



**RANDOLPH COUNTY  
T 19 S R 10-11 E**

Sheet 25



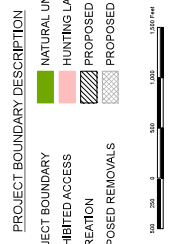
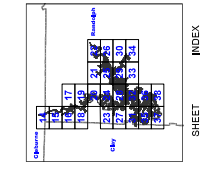
Sheet 30

Sheet 28

Range 11 E  
Range 10 E

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Sheet 33



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 23 OF 38 SHEETS	



**RANDOLPH COUNTY  
T 19 S R 11-12 E**

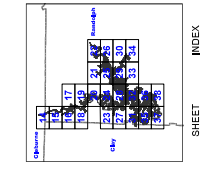
Sheet 26



Sheet 29

Source: Aerial Photo Data © Google Earth, 2018. Digitized by ALABAMA POWER COMPANY

Sheet 34



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 30	OF 38 SHEETS



# CLAY & RANDOLPH COUNTIES

T 19-20 S R 09-10 E

Sheet 27



Sheet 32

Sheet 35

ALABAMA POWER COMPANY  
BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622

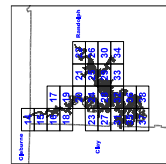
DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 31 OF 38 SHEETS



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



SHEET INDEX



**RANDOLPH COUNTY**  
**T 19-20 S R 10 E**

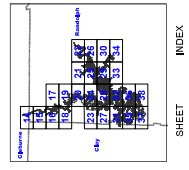
Sheet 28



Sheet 33

Sheet 31

Sheet 36



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



**ALABAMA POWER COMPANY**  
 BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2652

DATE: \_\_\_\_\_ PROJECT SMP CLASSIFICATION: \_\_\_\_\_

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 32 OF 38 SHEETS



**RANDOLPH COUNTY**  
**T 19-20 S R 10-11 E**

Sheet 29



Sheet 34

Sheet 32

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





**ALABAMA POWER COMPANY**  
 BIRMINGHAM, ALA.

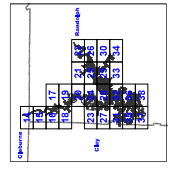
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DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 33 OF 38 SHEETS

- PROJECT BOUNDARY DESCRIPTION**
-  PROJECT BOUNDARY
  -  PROHIBITED ACCESS
  -  RECREATION
  -  PROPOSED REMOVALS
  -  NATURAL UNDEVELOPED
  -  HUNTING LANDS
  -  PROPOSED RECLASSIFICATION
  -  PROPOSED ADDITIONS

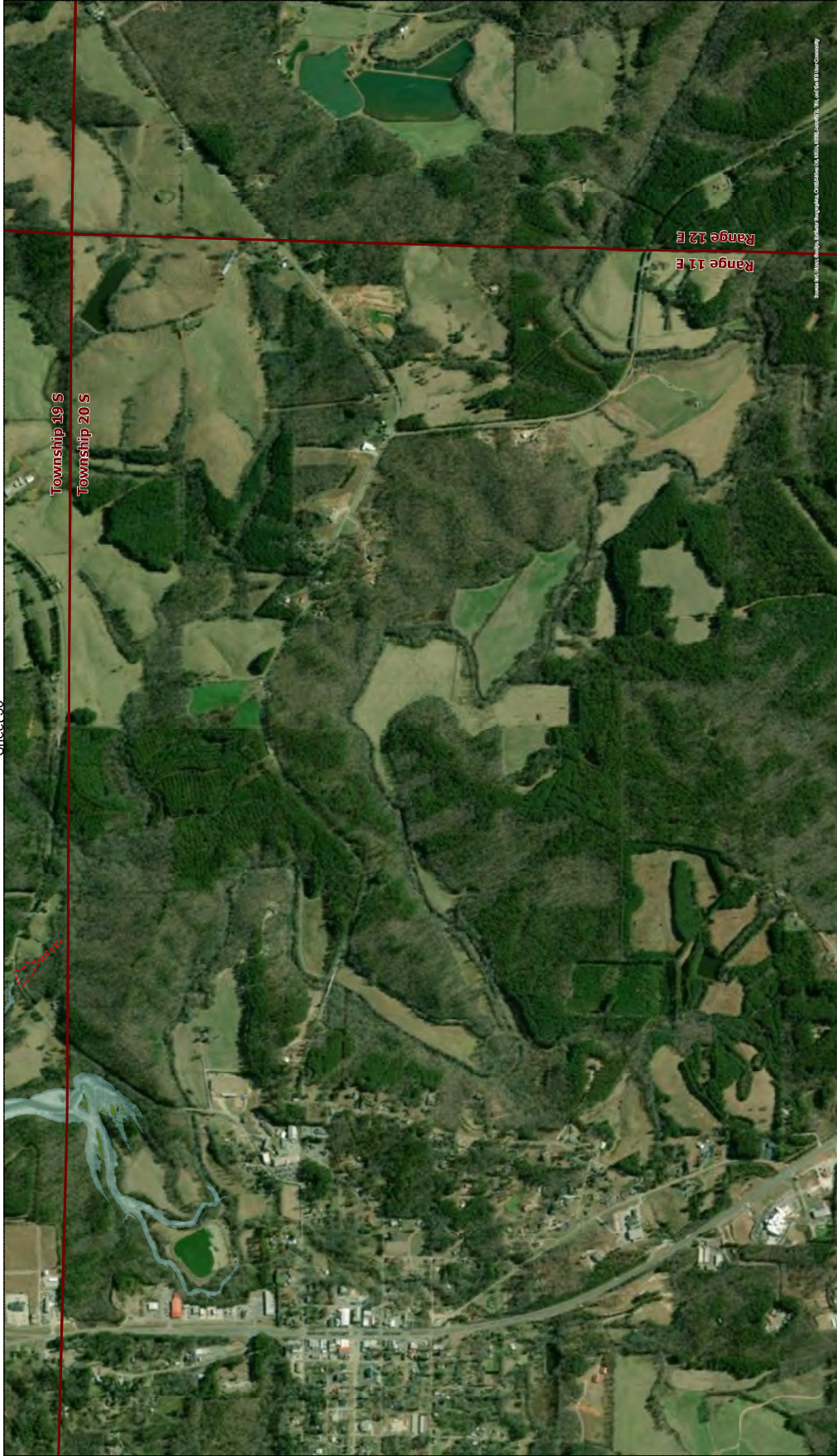


SHEET INDEX



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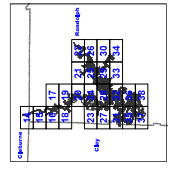
Sheet 30



Sheet 33

<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DESIGN: PROJECT SMP CLASSIFICATION	DATE: JULY 11, 2020
DRAWN BY: DLM	SHEETS: 38
SHEET NO.: 34	OF: 38

- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS



INDEX SHEET



# CLAY & RANDOLPH COUNTIES T 20 S R 09-10 E

Sheet 31



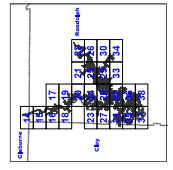
Sheet 36

Sheet 37

<b>ALABAMA POWER COMPANY</b> BIRMINGHAM, ALA.	
SUBJECT: R.L. HARRIS HYDROELECTRIC PROJECT NO. 2622	
DATE: _____	PROJECT SMP CLASSIFICATION: _____
DRAWN BY: DLM	DATE: JULY 11, 2020
SHEET NO. 35	OF 38 SHEETS



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - RECREATION
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS
  - PROPOSED REMOVALS



SHEET INDEX



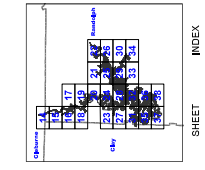
**RANDOLPH COUNTIES**  
**T 20 S R 10 E**

Sheet 32



Sheet 35

Sheet 38



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - PROHIBITED ACCESS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED RECLASSIFICATION
  - HUNTING LANDS
  - PROPOSED ADDITIONS



**ALABAMA POWER COMPANY**  
 BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628

DATE: \_\_\_\_\_ PROJECT SMP CLASSIFICATION: \_\_\_\_\_

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 36 OF 38 SHEETS



# CLAY & RANDOLPH COUNTIES T 20 S R 09-10 E

Sheet 35

Sheet 38



Approved for State, County, Federal, and Private Landowners by the Alabama Department of Conservation and Forestry, Inc. on 04/11/2020

**ALABAMA POWER COMPANY**  
BIRMINGHAM, ALA.

SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628

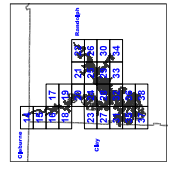
DATE: PROJECT SMP CLASSIFICATION

DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 37 OF 38 SHEETS



- PROJECT BOUNDARY DESCRIPTION**
- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED RECLASSIFICATION
  - PROPOSED ADDITIONS

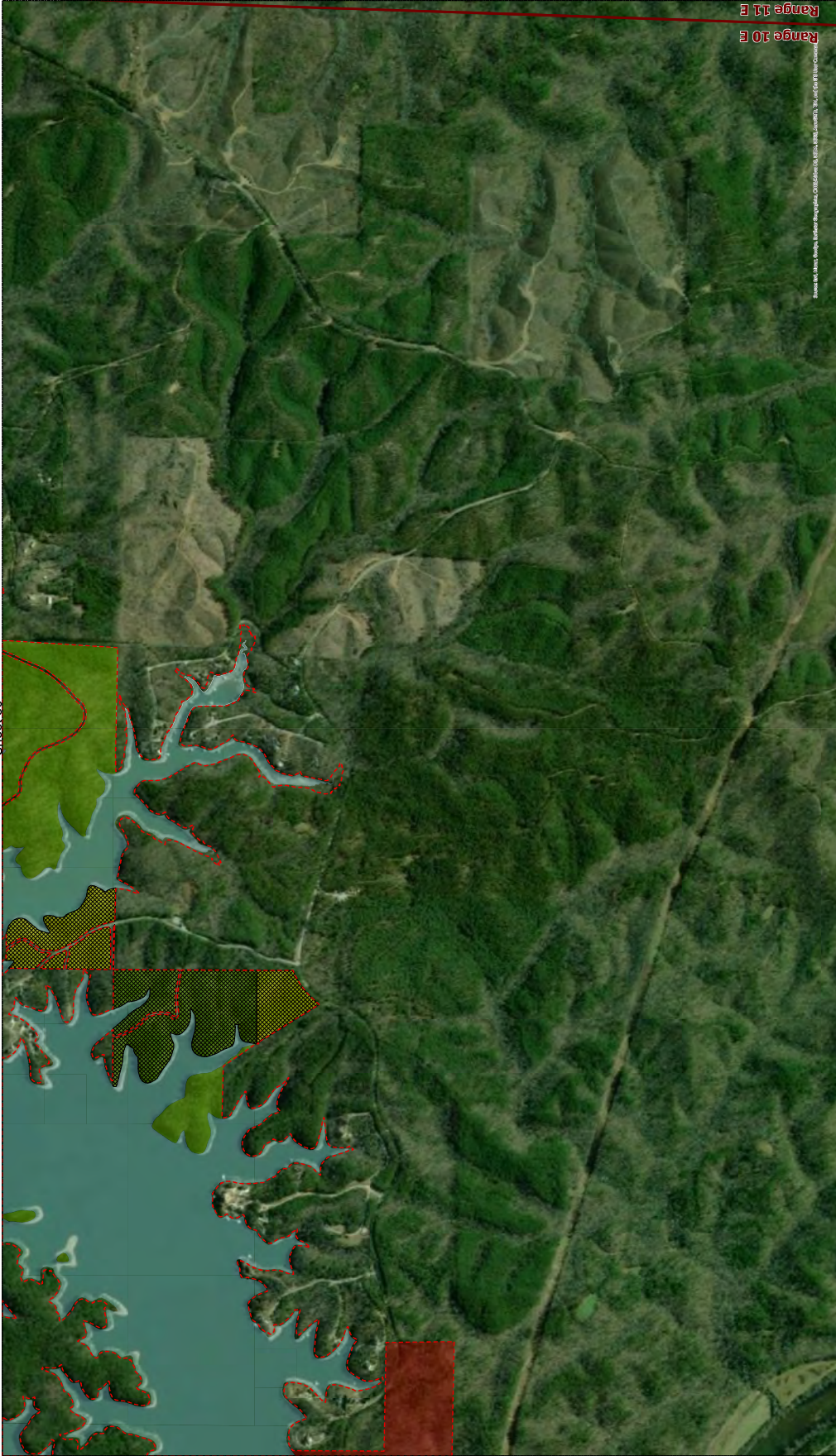


SHEET INDEX



**RANDOLPH COUNTY**  
**T 20 S R 10-11 E**

Sheet 36



Sheet 37

**ALABAMA POWER COMPANY**

BRIMMINGHAM, ALA.

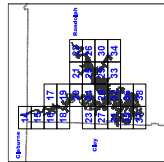
SUBJECT: R. L. HARRIS HYDROELECTRIC PROJECT NO. 2628

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DRAWN BY: DLM DATE: JULY 11, 2020

SHEET NO. 38 OF 38 SHEETS

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- PROJECT BOUNDARY
  - NATURAL UNDEVELOPED
  - HUNTING LANDS
  - RECREATION
  - PROPOSED REMOVALS
  - PROPOSED ADDITIONS



INDEX SHEET



## **APPENDIX D**

### **FLAT ROCK BOTANICAL INVENTORY REPORT**

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**A BOTANICAL INVENTORY OF A 20-ACRE  
PARCEL AT FLAT ROCK PARK,  
BLAKE'S FERRY, ALABAMA**

**A report prepared for**

**ALABAMA POWER COMPANY**

**by**

James T. Diggs, Daniel D. Spaulding, Katie N. Horton,  
David M. Frings

In partial fulfillment of contract#  
09-4050-M-SCS

February 18, 2020



## Introduction

This botanical inventory, begun in March 2019, was undertaken to catalogue all plants present at a 20-acre parcel at the rare Blake's Ferry Pluton, located adjacent to Alabama Power Company's (Alabama Power) Flat Rock Park (Flat Rock) on Lake Harris at 7115 CR 870 Wedowee, AL 36278. The area of the botanical inventory (Inventory Area) is delineated in Figure 1.

This granite pluton supports a unique assemblage of plants and represents a very rare, rapidly disappearing ecosystem type endemic to the eastern United States. This botanical inventory is intended to support the Alabama Glade Conservation Coalition's August 28, 2018 request to reclassify this 20-acre parcel of Flat Rock Park from "Recreational" to "Natural/Undeveloped", affording the natural plant and animal community at this location protection from potential future degradation.

The inventory area consists approximately 20 acres of woodland and granite "flat rock" habitat adjacent to the popular Flat Rock recreational area on Lake Harris. The Inventory Area is separated from Flat Rock by forested land and because of this, remains largely unaffected by the large numbers of visitors to Flat Rock. The authors of this report completed a botanical inventory at the Inventory Area to support the proposed change in land use designation.

The field team of botanists (Diggs, Spaulding, and Horton) began this inventory in March, 2019, and visited the site at least monthly throughout the growing season, with the final field day occurring on September 29, 2019. During each visit, we walked the entire 20-acre property, paying careful attention to specialized habitats on the parcel that were likely to harbor additional or more specialized species (wetlands, granite glades, rich woodlands, grasslands, etc.) All plant species were identified either in the field, or in cases where identification was more difficult, a voucher specimen was taken for later identification in the laboratory. All vouchers are housed at the Anniston Museum of Natural History, Anniston, Alabama (AMAL, Daniel D. Spaulding, curator). All identifications were made *sensu* Weakley (2015)<sup>1</sup>, and all nomenclature was checked against the Alabama Plant Atlas<sup>2</sup>.

In all, 365 species of plants were documented from the Inventory Area and surrounding buffer areas. These 365 species represent 97 plant families. The inventory team documented 1 species which had never been documented in the state of Alabama (denoted as "state record" within the comments of Table 2), and 67 species which had never been documented in Randolph County (denoted as "county record" within the comments of Table 2). These results are presented in Table 2. Several of these species are of federal and/or state conservation concern. These species

<sup>1</sup> Weakley, A.S. 2015. Flora of the southern and mid-Atlantic states, working draft of May 2015. University of North Carolina Herbarium, North Carolina Botanical Garden, Chapel Hill, NC.

<sup>2</sup> Keener, B. R., A.R. Diamond, L. J. Davenport, P. G. Davison, S. L. Ginzburg, C. J. Hansen, C. S. Major, D. D. Spaulding, J. K. Triplett, and M. Woods. 2019. *Alabama Plant Atlas*. [S.M. Landry and K.N. Campbell (original application development), Florida Center for Community Design and Research. University of South Florida]. University of West Alabama, Livingston, Alabama.



and their ranks are presented in Table 1. One of these species, *Phacelia maculata*, has only ever been recorded in the state of Alabama from the Inventory Area. The approximate locations for representative populations of the rare species found in Table 1 are shown in the map in Figure 2. There are 20 species which are considered invasive by the Southeast Exotic Pest Plant Council (SE-EPPC).<sup>3</sup> These are designated as “invasive” in Table 2.



**FIGURE 1: INVENTORY AREA FOR RARE PLANT COMMUNITIES OF GRANITE OUTCROPS, APPROXIMATELY 20-ACRES.**



**FIGURE 2: REPRESENTATIVE LOCATIONS FOR POPULATIONS OF RARE SPECIES FROM TABLE 1.**

<sup>3</sup> Miller, J., Chambliss, E., and Barger, C. 2004. Invasive Plants of the Thirteen Southern States. <https://www.invasive.org/south/seweeds.cfm>



**TABLE 1: SPECIES OF CONSERVATION CONCERN DOCUMENTED IN INVENTORY AREA**

Species	Conservation rank
<i>Cuscuta harperi</i> , Harper's dodder	S2, G2G3
<i>Cyperus granitophilus</i> , granite flatsedge	S2, G3
<i>Diamorpha smallii</i> , elf orpine	S3
<i>Gentiana saponaria</i> , soapwort gentian	S3
<i>Helianthus longifolius</i> , longleaf sunflower	S1S2, G3
<i>Helianthus porteri</i> , confederate daisy	S2
<i>Hypopitys monotropa</i> , pinesap	S2
<i>Mononeuria glabra</i> , Appalachian sandwort	G3
<i>Phacelia maculata</i> , spotted scorpion weed	S1, G1
<i>Phemeranthus mengesii</i> , Menges' fameflower	S2S3, G3

Legend: In all of the rankings, "S" denotes the range of the plant in the state of Alabama. "G" denotes the entire natural range of the plant.<sup>4</sup>

- G1 or S1: Critically Imperiled — At very high risk of extinction or elimination due to very restricted range, very few populations or occurrences, very steep declines, very severe threats, or other factors. S1 denotes fewer than 5 known occurrences within the state.
- G2 or S2: Imperiled — At high risk of extinction or elimination due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors. S2 denotes 6-20 known occurrences within the state.
- G3 or S3: Vulnerable — At moderate risk of extinction or elimination due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors. S3 denotes 21-100 occurrences within the state
- G4 or S4: Apparently Secure — At fairly low risk of extinction or elimination due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors. S4 denotes species which are apparently secure within the state.
- G5 or S5: Secure — At very low risk of extinction or elimination due to a very extensive range, abundant populations or occurrences, and little to no concern from declines or threats. S5 denotes species which are demonstrably secure within the state

<sup>4</sup> Master, L. L., D. Faber-Langendoen, R. Bittman, G. A. Hammerson, B. Heidel, L. Ramsay, K. Snow, A. Teucher, and A. Tomaino. 2012. NatureServe Conservation Status Assessments: Factors for Evaluating Species and Ecosystem Risk. NatureServe, Arlington, VA



TABLE 2: SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Acer rubrum</i>	red maple	Aceraceae	
<i>Aesculus pavia</i>	red buckeye	Hippocastanaceae	
<i>Agalinis fasciculata</i>	beach false foxglove	Orobanchaceae	
<i>Agalinis tenuifolia</i>	slenderleaf false foxglove	Orobanchaceae	
<i>Agave virginica</i>	eastern false aloe	Agavaceae	
<i>Agrostis hyemalis</i>	winter bentgrass	Poaceae	
<i>Agrostis perennans</i>	autumn bentgrass	Poaceae	
<i>Albizia julibrissin</i>	mimosa	Fabaceae	not native, invasive
<i>Allium cepa</i>	garden onion	Alliaceae	not native, state record
<i>Allium vineale</i>	field garlic	Alliaceae	not native, invasive
<i>Alnus serrulata</i>	tag alder	Betulaceae	
<i>Alopecurus carolinianus</i>	Carolina foxtail grass	Poaceae	
<i>Ambrosia artemisiifolia</i>	common ragweed	Asteraceae	
<i>Amelanchier arborea</i>	downy serviceberry	Rosaceae	
<i>Andropogon ternarius</i>	splitbeard bluestem	Poaceae	
<i>Andropogon virginicus</i>	broom sedge	Poaceae	
<i>Antennaria plantaginifolia</i>	plantain pussytoes	Asteraceae	
<i>Apios americana</i>	American groundnut	Fabaceae	
<i>Aralia spinosa</i>	devil's walking stick	Araliaceae	
<i>Arenaria serpyllifolia</i>	large thyme-leaved sandwort	Caryophyllaceae	not native, invasive
<i>Arisaema pusillum</i>	small-flowered jack-in-the-pulpit	Araceae	
<i>Aristida purpurascens</i>	arrowfeather	Poaceae	county record
<i>Arthraxon hispidus</i>	basket grass	Poaceae	not native, invasive
<i>Arundinaria gigantea</i>	river cane	Poaceae	
<i>Asclepias amplexicaulis</i>	clasping milkweed	Apocynaceae	
<i>Asclepias tuberosa</i>	butterfly weed	Apocynaceae	
<i>Asclepias verticillata</i>	whorled milkweed	Apocynaceae	
<i>Asimina parviflora</i>	small-flowered pawpaw	Annonaceae	
<i>Asplenium platyneuron</i>	ebony spleenwort	Aspleniaceae	
<i>Athyrium asplenioides</i>	southern lady fern	Athyriaceae	
<i>Axonopus fissifolius</i>	common carpetgrass	Poaceae	county record
<i>Baccharis halimifolia</i>	groundsel tree	Asteraceae	
<i>Bidens discoidea</i>	few-bracted beggar ticks	Asteraceae	county record
<i>Bidens frondosa</i>	devil's beggar ticks	Asteraceae	
<i>Bignonia capreolata</i>	cross-vine	Bignoniaceae	



TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Boechera canadensis</i>	Canada rockcress	Brassicaceae	county record
<i>Botrychium dissectum</i>	cutleaf grape fern	Ophioglossaceae	
<i>Briza minor</i>	lesser quaking grass	Poaceae	
<i>Bromus commutatus</i>	meadow brome	Poaceae	not native, county record
<i>Bromus hordeaceus</i>	lopgrass	Poaceae	not native, county record
<i>Bulbostylis capillaris</i>	common hairsedge	Cyperaceae	
<i>Callicarpa americana</i>	American beautyberry	Lamiaceae	
<i>Callitriche heterophylla</i>	common water-starwort	Plantaginaceae	county record
<i>Campsis radicans</i>	trumpet creeper	Bignoniaceae	
<i>Cardamine hirsuta</i>	hairy bittercress	Brassicaceae	not native
<i>Cardamine parviflora</i> var. <i>arenicola</i>	sand bittercress	Brassicaceae	
<i>Carex albolutescens</i>	greenish-white sedge	Cyperaceae	
<i>Carex complanata</i>	hirsute sedge	Cyperaceae	county record
<i>Carex crinita</i>	fringed sedge	Cyperaceae	
<i>Carex lupulina</i>	hop sedge	Cyperaceae	
<i>Carex lurida</i>	sallow sedge	Cyperaceae	
<i>Carex nigromarginata</i>	black-edged sedge	Cyperaceae	
<i>Carex striatula</i>	lined sedge	Cyperaceae	
<i>Carex styloflexa</i>	bent sedge	Cyperaceae	
<i>Carex tribuloides</i>	blunt broom sedge	Cyperaceae	
<i>Carpinus caroliniana</i>	American hornbeam	Fagaceae	
<i>Carya pallida</i>	sand hickory	Juglandaceae	
<i>Carya tomentosa</i>	mockernut hickory	Juglandaceae	
<i>Centrosema virginianum</i>	spurred butterfly pea	Fabaceae	
<i>Cephalanthus occidentalis</i>	buttonbush	Rubiaceae	
<i>Chamaecrista fasciculata</i>	common partridge pea	Fabaceae	
<i>Chamaecrista nictitans</i>	common sensitive plant	Fabaceae	
<i>Chasmanthium</i> <i>sessiliflorum</i>	longleaf woodoats	Poaceae	
<i>Chimaphila maculata</i>	pipsissewa	Ericaceae	
<i>Cicuta maculata</i>	water hemlock	Apiaceae	county record
<i>Cirsium horridulum</i>	common thistle	Asteraceae	county record



TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Cirsium vulgare</i>	Canada thistle	Asteraceae	not native, invasive
<i>Clematis virginiana</i>	virgin's bower	Ranunculaceae	
<i>Clitoria mariana</i>	butterfly pea	Fabaceae	
<i>Cocculus carolinus</i>	carolina snailseed	Menispermaceae	
<i>Coleataenia anceps</i>	beaked panic grass	Poaceae	
<i>Coleataenia longifolia</i> var. <i>longifolia</i>	long-leaved panic grass	Poaceae	county record
<i>Commelina erecta</i> var. <i>erecta</i>	erect dayflower	Commelinaceae	
<i>Coreopsis grandiflora</i> var. <i>grandiflora</i>	large-flowered tickseed	Asteraceae	
<i>Coreopsis major</i>	woodland tickseed	Asteraceae	
<i>Cornus florida</i>	flowering dogwood	Cornaceae	
<i>Crataegus uniflora</i>	one-flower hawthorn	Rosaceae	
<i>Croton willdenowii</i>	outcrop rushfoil	Euphorbiaceae	
<i>Cuscuta harperi</i>	Harper's dodder	Convolvulaceae	county record, S2, G2G3
<i>Cyperus granitophilus</i>	granite flatsedge	Cyperaceae	S2, G3G4
<i>Cyperus iria</i>	rice flatsedge	Cyperaceae	not native
<i>Cyperus retrorsus</i>	pinebarren flatsedge	Cyperaceae	county record
<i>Cyperus virens</i>	green flatsedge	Cyperaceae	county record
<i>Dactyloctenium aegyptium</i>	crowfoot grass	Poaceae	not native
<i>Danthonia sericea</i>	downy oatgrass	Poaceae	
<i>Danthonia spicata</i>	poverty oatgrass	Poaceae	
<i>Desmodium ciliare</i>	hairy small-leaf tick-trefoil	Fabaceae	
<i>Desmodium rotundifolium</i>	prostrate tick-trefoil	Fabaceae	
<i>Desmodium tenuifolium</i>	slim-leaf tick-trefoil	Fabaceae	county record
<i>Desmodium viridiflorum</i>	velvetleaf tick-trefoil	Fabaceae	
<i>Diamorpha smallii</i>	elf orpine	Crassulaceae	S3, G3G4
<i>Dichanthelium acuminatum</i> var. <i>acuminatum</i>	woolly witchgrass	Poaceae	county record
<i>Dichanthelium acuminatum</i> var. <i>lindheimeri</i>	woolly witchgrass	Poaceae	county record
<i>Dichanthelium boscii</i>	Bosc's witchgrass	Poaceae	
<i>Dichanthelium commutatum</i>	variable witchgrass	Poaceae	



TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

Taxon name	Common name	Family	Comments
<i>Dichanthelium depauperatum</i>	starved witchgrass	Poaceae	
<i>Dichanthelium dichotomum</i> <i>var. dichotomum</i>	forked witchgrass	Poaceae	
<i>Dichanthelium laxiflorum</i>	lax-flowered witchgrass	Poaceae	
<i>Dichanthelium microcarpon</i>	small-fruit witchgrass	Poaceae	county record
<i>Dichanthelium ravenelii</i>	Ravenel's witchgrass	Poaceae	
<i>Dichanthelium scoparium</i>	velvet witchgrass	Poaceae	
<i>Dichanthelium sphaerocarpon</i>	round-fruit witchgrass	Poaceae	
<i>Diodia virginiana</i>	Virginia buttonweed	Rubiaceae	
<i>Diospyros virginiana</i>	American persimmon	Ebenaceae	
<i>Dulichium arundinaceum</i>	three-way sedge	Cyperaceae	county record
<i>Eclipta prostrata</i>	yerba de tajo	Asteraceae	not native, county record
<i>Eleocharis acicularis</i>	needle spikerush	Cyperaceae	county record
<i>Eleocharis microcarpa</i>	small-fruit spikerush	Cyperaceae	county record
<i>Eleocharis obtusa</i>	blunt spikerush	Cyperaceae	
<i>Elephantopus tomentosus</i>	woolly elephant's foot	Asteraceae	
<i>Elymus virginicus</i>	Virginia wild rye	Poaceae	
<i>Endodeca serpentaria</i>	Virginia snakeroot	Aristolochiaceae	county record
<i>Eragrostis hirsuta</i>	big top lovegrass	Poaceae	
<i>Eragrostis lugens</i>	mourning lovegrass	Poaceae	not native, county record
<i>Eragrostis pectinacea</i>	Carolina lovegrass	Poaceae	county record
<i>Eragrostis refracta</i>	coastal lovegrass	Poaceae	county record
<i>Eragrostis spectabilis</i>	purple lovegrass	Poaceae	
<i>Erechtites hieraciifolius</i>	American burnweed	Asteraceae	
<i>Erianthus alopecuroides</i>	silver plume grass	Poaceae	
<i>Erigeron canadensis</i>	common horseweed	Asteraceae	
<i>Erigeron philadelphicus</i>	Philadelphia fleabane	Asteraceae	
<i>Erigeron strigosus</i>	common eastern fleabane	Asteraceae	
<i>Eryngium prostratum</i>	creeping eryngo	Apiaceae	
<i>Euonymus americanus</i>	American strawberry bush	Celastraceae	



TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Eupatorium capillifolium</i>	common dog fennel	Asteraceae	
<i>Eupatorium hyssopifolium</i>	hyssop-leaf thoroughwort	Asteraceae	
<i>Eupatorium serotinum</i>	late-flowering thoroughwort	Asteraceae	
<i>Euphorbia maculata</i>	spotted sandmat	Euphorbiaceae	county record
<i>Euphorbia pubentissima</i>	false flowering spurge	Euphorbiaceae	
<i>Eutrochium fistulosum</i>	hollow-stem joe pye weed	Asteraceae	
<i>Fagus grandifolia</i>	American beech	Fagaceae	
<i>Fimbristylis autumnalis</i>	slender fimbry	Cyperaceae	
<i>Fraxinus pennsylvanica</i>	green ash	Oleaceae	
<i>Fuirena squarrosa</i>	hairy umbrella sedge	Cyperaceae	
<i>Galactia regularis</i>	eastern milk pea	Fabaceae	
<i>Galium pilosum</i>	hairy bedstraw	Rubiaceae	
<i>Galium uniflorum</i>	one-flower bedstraw	Rubiaceae	
<i>Gamochaeta coarctata</i>	elegant cudweed	Asteraceae	
<i>Gentiana saponaria</i>	soapwort gentian	Gentianaceae	S3
<i>Glyceria striata</i>	fowl manna grass	Poaceae	
<i>Gonolobus suberosus</i>	angle pod	Apocynaceae	
<i>Gratiola virginiana</i>	Virginia hedge hyssop	Plantaginaceae	
<i>Hedeoma hispida</i>	rough false pennyroyal	Lamiaceae	
<i>Helenium amarum</i>	bitterweed	Asteraceae	
<i>Helianthus angustifolius</i>	narrowleaf sunflower	Asteraceae	
<i>Helianthus divaricatus</i>	woodland sunflower	Asteraceae	county record
<i>Helianthus hirsutus</i>	hairy sunflower	Asteraceae	
<i>Helianthus longifolius</i>	longleaf sunflower	Asteraceae	S1S2, G3
<i>Helianthus microcephalus</i>	small head sunflower	Asteraceae	
<i>Helianthus porteri</i>	confederate daisy	Asteraceae	S2, G4
<i>Heuchera parviflora</i>	small-flower alumroot	Saxifragaceae	county record
<i>Hexasepalum teres</i>	poor joe	Rubiaceae	
<i>Hexastylis arifolia</i>	little brown jug	Aristolochiaceae	
<i>Hibiscus moscheutos</i>	common marsh mallow	Malvaceae	county record
<i>Hieracium gronovii</i>	hairy hawkweed	Asteraceae	
<i>Hordeum pusillum</i>	mouse barley	Poaceae	
<i>Houstonia caerulea</i>	common bluet	Rubiaceae	
<i>Houstonia longifolia</i>	eastern longleaf bluet	Rubiaceae	



TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Houstonia micrantha</i>	southern bluet	Rubiaceae	county record
<i>Houstonia pusilla</i>	tiny bluet	Rubiaceae	
<i>Houstonia tenuifolia</i>	slender leaf bluet	Rubiaceae	
<i>Hydrangea quercifolia</i>	oak-leaf hydrangea	Hydrangeaceae	
<i>Hydrocotyle verticillata</i>	whorled pennywort	Araliaceae	
<i>Hypericum crux-andreae</i>	St. Peter's wort	Hypericaceae	
<i>Hypericum gentianoides</i>	orange grass	Hypericaceae	
<i>Hypericum hypericoides</i>	St. Andrew's cross	Hypericaceae	
<i>Hypericum punctatum</i>	spotted St. John's wort	Hypericaceae	
<i>Hypericum walteri</i>	greater marsh St. John's wort	Hypericaceae	county record
<i>Hypochaeris radicata</i>	hairy cat's ear	Asteraceae	not native, county record
<i>Hypopitys monotropa</i>	pinetop	Ericaceae	S2
<i>Hypoxis hirsuta</i>	common star grass	Hypoxidaceae	
<i>Ilex opaca</i>	American holly	Aquifoliaceae	
<i>Impatiens capensis</i>	orange jewelweed	Balsaminaceae	
<i>Ipomoea pandurata</i>	man of the earth	Convolvulaceae	
<i>Iris virginica</i>	blue flag iris	Iridaceae	county record
<i>Jacquemontia tamnifolia</i>	hairy clustervine	Convolvulaceae	
<i>Juncus acuminatus</i>	sharp fruit rush	Juncaceae	
<i>Juncus diffusissimus</i>	slim pod rush	Juncaceae	
<i>Juncus effusus</i>	soft rush	Juncaceae	
<i>Juncus secundus</i>	lopsided rush	Juncaceae	
<i>Juncus tenuis</i>	path rush	Juncaceae	
<i>Juncus validus</i>	round head rush	Juncaceae	
<i>Juniperus virginiana</i>	eastern redcedar	Cupressaceae	
<i>Kelloggella verrucosa</i>	warty panic grass	Poaceae	county record
<i>Krigia virginica</i>	Virginia dwarf dandelion	Asteraceae	
<i>Lactuca serriola</i>	prickly lettuce	Asteraceae	county record
<i>Lamium purpureum</i>	purple dead nettle	Lamiaceae	not native
<i>Lechea racemulosa</i>	oblong fruit pinweed	Cistaceae	
<i>Leersia oryzoides</i>	rice cutgrass	Poaceae	county record
<i>Lespedeza cuneata</i>	Chinese bush clover	Fabaceae	not native, invasive

TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Lespedeza procumbens</i>	trailing bush clover	Fabaceae	
<i>Lespedeza repens</i>	creeping bush clover	Fabaceae	
<i>Lespedeza virginica</i>	slender bush clover	Fabaceae	
<i>Liatris microcephala</i>	small head blazing star	Asteraceae	
<i>Ligustrum sinense</i>	Chinese privet	Oleaceae	not native, invasive
<i>Linaria canadensis</i>	common toadflax	Plantaginaceae	
<i>Linum striatum</i>	ridged yellow flax	Linaceae	county record
<i>Liquidambar styraciflua</i>	sweetgum	Altingiaceae	
<i>Liriodendron tulipifera</i>	tulip poplar	Magnoliaceae	
<i>Liriope spicata</i>	creeping turf lily	Ruscaceae	not native, county record
<i>Lolium arundinaceum</i>	tall fescue	Poaceae	not native
<i>Lonicera japonica</i>	Japanese honeysuckle	Caprifoliaceae	not native, invasive
<i>Lorinseria areolata</i>	netted chain fern	Blechnaceae	
<i>Ludwigia alternifolia</i>	alternate leaf seedbox	Onagraceae	
<i>Ludwigia decurrens</i>	wingstem water primrose	Onagraceae	
<i>Ludwigia palustris</i>	marsh seedbox	Onagraceae	
<i>Luzula echinata</i>	hedgehog wood rush	Juncaceae	
<i>Lycopus virginicus</i>	Virginia bugleweed	Lamiaceae	
<i>Lygodium japonicum</i>	Japanese climbing fern	Lygodiaceae	not native, invasive, county record
<i>Magnolia grandiflora</i>	southern magnolia	Magnoliaceae	county record
<i>Magnolia virginiana</i>	sweet bay magnolia	Magnoliaceae	
<i>Maianthemum racemosum</i>	Solomon's plume	Ruscaceae	
<i>Malaxis unifolia</i>	green adder's mouth orchid	Orchidaceae	
<i>Matelea carolinensis</i>	Carolina milkvine	Apocynaceae	
<i>Mazus pumilus</i>	Japanese mazus	Mazaceae	not native, county record
<i>Melica mutica</i>	two flower melic grass	Poaceae	
<i>Micranthes virginensis</i>	early saxifrage	Saxifragaceae	
<i>Microstegium vimineum</i>	Japanese stilt grass	Poaceae	not native, invasive
<i>Mikania scandens</i>	climbing hempvine	Asteraceae	
<i>Mitchella repens</i>	partridge berry	Rubiaceae	
<i>Monarda fistulosa var. mollis</i>	eastern bergamot	Lamiaceae	
<i>Mononeuria glabra</i>	Appalachian sandwort	Caryophyllaceae	G4



TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

Taxon name	Common name	Family	Comments
<i>Morus rubra</i>	red mulberry	Moraceae	
<i>Mosla dianthera</i>	minature beefsteak plant	Lamiaceae	not native, invasive, county record
<i>Muscadinia rotundifolia</i>	muscadine	Vitaceae	
<i>Nabalus altissimus</i>	tall rattlesnake root	Asteraceae	
<i>Nyssa biflora</i>	swamp tupelo	Nyssaceae	
<i>Nyssa sylvatica</i>	black gum	Nyssaceae	
<i>Oenothera biennis</i>	common evening primrose	Onagraceae	
<i>Oenothera fruticosa</i> var. <i>subglobosa</i>	flatrock sundrops	Onagraceae	
<i>Oenothera linifolia</i>	threadleaf sundrops	Onagraceae	
<i>Opuntia cespitosa</i>	red-flowered prickly pear	Cactaceae	county record
<i>Opuntia mesacantha</i>	prickly pear	Cactaceae	county record
<i>Osmundastrum cinnamomeum</i>	cinnamon fern	Osmundaceae	
<i>Oxalis dillenii</i>	gray green wood sorrel	Oxalidaceae	
<i>Oxalis florida</i>	slender wood sorrel	Oxalidaceae	
<i>Oxalis stricta</i>	common yellow wood sorrel	Oxalidaceae	
<i>Oxalis violacea</i>	violet wood sorrel	Oxalidaceae	
<i>Oxydendrum arboreum</i>	sourwood	Ericaceae	
<i>Packera anonyma</i>	Appalachian ragwort	Asteraceae	
<i>Parthenocissus quinquefolia</i>	Virginia creeper	Vitaceae	
<i>Paspalum laeve</i>	field crowngrass	Poaceae	
<i>Paspalum notatum</i>	bahia grass	Poaceae	not native, invasive
<i>Paspalum urvillei</i>	Vasey's grass	Poaceae	not native
<i>Passiflora incarnata</i>	purple passion flower	Passifloraceae	
<i>Passiflora lutea</i>	yellow passion flower	Passifloraceae	
<i>Persicaria punctata</i>	dotted smartweed	Polygonaceae	county record
<i>Persicaria setacea</i>	bog smartweed	Polygonaceae	
<i>Phacelia maculata</i>	spotted scorpion weed	Hydrophyllaceae	
<i>Phemeranthus mengesii</i>	Menges' rock pink	Montiaceae	S2S3, G3
<i>Photinia serratifolia</i>	Taiwanese redbtip	Rosaceae	not native
<i>Phytolacca americana</i>	American pokeweed	Phytolaccaceae	
<i>Pinus taeda</i>	loblolly pine	Pinaceae	
<i>Pinus virginiana</i>	Virginia pine	Pinaceae	county record

TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Pityopsis graminifolia</i>	narrowleaf silkgrass	Asteraceae	county record
<i>Plantago aristata</i>	large bract plantain	Plantaginaceae	
<i>Plantago rugelii</i>	black seed plantain	Plantaginaceae	
<i>Plantago virginica</i>	Virginia plantain	Plantaginaceae	
<i>Pleopeltis michauxiana</i>	resurrection fern	Polypodiaceae	
<i>Pluchea camphorata</i>	common camphor weed	Asteraceae	
<i>Poa annua</i>	annual bluegrass	Poaceae	not native, invasive
<i>Polygala curtissii</i>	Appalachian milkwort	Polygalaceae	
<i>Polygonatum biflorum</i>	Solomon's seal	Ruscaceae	
<i>Polypremum procumbens</i>	rustweed	Tetrachondraceae	
<i>Polystichum acrostichoides</i>	Christmas fern	Dryopteridaceae	
<i>Pontederia cordata</i>	pickerel weed	Pontederiaceae	
<i>Portulaca oleracea</i>	common purslane	Portulacaceae	not native, county record
<i>Potentilla indica</i>	mock strawberry	Rosaceae	not native, invasive
<i>Potentilla simplex</i>	common cinquefoil	Rosaceae	
<i>Prunella vulgaris var. lanceolata</i>	American self heal	Lamiaceae	county record
<i>Prunus serotina</i>	black cherry	Rosaceae	
<i>Pseudognaphalium obtusifolium</i>	eastern rabbit tobacco	Asteraceae	
<i>Ptilimnium capillaceum</i>	herb William	Apiaceae	
<i>Pycnanthemum loomisii</i>	Loomis' mountain mint	Lamiaceae	
<i>Pycnanthemum tenuifolium</i>	narrowleaf mountain mint	Lamiaceae	county record
<i>Pyrrhopappus carolinianus</i>	Carolina false dandelion	Asteraceae	
<i>Pyrus calleryana</i>	Bradford pear	Rosaceae	not native, invasive, county record
<i>Quercus alba</i>	northern white oak	Fagaceae	
<i>Quercus nigra</i>	water oak	Fagaceae	
<i>Quercus rubra</i>	northern red oak	Fagaceae	county record
<i>Quercus stellata</i>	post oak	Fagaceae	
<i>Quercus velutina</i>	black oak	Fagaceae	county record
<i>Ranunculus pusillus</i>	low buttercup	Ranunculaceae	
<i>Rhexia mariana</i>	pale meadow beauty	Melastomataceae	
<i>Rhododendron canescens</i>	pedmont azalea	Ericaceae	



TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Rhus copallinum</i>	winged sumac	Anacardiaceae	
<i>Rhus glabra</i>	smooth sumac	Anacardiaceae	
<i>Rhynchosia tomentosa</i>	twining snout bean	Fabaceae	
<i>Rhynchospora globularis</i>	globe beakrush	Cyperaceae	
<i>Rhynchospora glomerata</i>	clustered beakrush	Cyperaceae	
<i>Rhynchospora inexpansa</i>	nodding beakrush	Cyperaceae	county record
<i>Rubus flagellaris</i>	whiplash dewberry	Rosaceae	
<i>Rubus pensylvanicus</i>	southern blackberry	Rosaceae	
<i>Ruellia carolinensis</i>	hairy wild petunia	Acanthaceae	
<i>Rumex acetosella</i>	sheep sorrel	Polygonaceae	not native, invasive
<i>Salix nigra</i>	black willow	Salicaceae	
<i>Salvia lyrata</i>	lyre leaf sage	Lamiaceae	
<i>Sambucus canadensis</i>	common elderberry	Adoxaceae	
<i>Sanicula canadensis</i>	Canadian black snakeroot	Apiaceae	
<i>Sanicula smallii</i>	Small's black snakeroot	Apiaceae	
<i>Sassafras albidum</i>	sassafras	Lauraceae	
<i>Schizachyrium scoparium</i>	little bluestem	Poaceae	
<i>Scirpus cyperinus</i>	wool grass	Cyperaceae	
<i>Scleria oligantha</i>	little head nutrush	Cyperaceae	
<i>Scutellaria elliptica</i>	hairy skullcap	Lamiaceae	county record
<i>Sericocarpus linifolius</i>	narrowleaf white top aster	Asteraceae	county record
<i>Setaria parviflora</i>	knotroot bristlegrass	Poaceae	
<i>Setaria pumila</i>	yellow bristlegrass	Poaceae	not native, invasive
<i>Seymeria cassioides</i>	yaupon black senna	Orobanchaceae	
<i>Silene stellata</i>	starry campion	Caryophyllaceae	
<i>Silene virginica</i>	fire pink	Caryophyllaceae	
<i>Smilax bona-nox</i>	saw greenbrier	Smilacaceae	
<i>Smilax glauca</i>	white leaf catbrier	Smilacaceae	
<i>Smilax rotundifolia</i>	common greenbrier	Smilacaceae	
<i>Smilax smallii</i>	Jackson brier	Smilacaceae	
<i>Solanum carolinense</i>	Carolina horse nettle	Solanaceae	
<i>Solidago altissima</i>	tall goldenrod	Asteraceae	
<i>Solidago caesia</i>	wreath goldenrod	Asteraceae	
<i>Solidago erecta</i>	slender goldenrod	Asteraceae	
<i>Solidago nemoralis</i>	eastern gray goldenrod	Asteraceae	
<i>Solidago odora</i>	sweet goldenrod	Asteraceae	

TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Solidago petiolaris</i>	ragged goldenrod	Asteraceae	
<i>Solidago rugosa var. aspera</i>	wrinkle-leaf goldenrod	Asteraceae	county record
<i>Sorghastrum nutans</i>	yellow indian grass	Poaceae	
<i>Sparganium americanum</i>	American bur weed	Typhaceae	
<i>Spiranthes lacera var. gracilis</i>	southern slender ladies' tresses	Orchidaceae	
<i>Sporobolus indicus</i>	smut grass	Poaceae	not native
<i>Steinchisma hians</i>	gaping panic grass	Poaceae	
<i>Stylosanthes biflora</i>	sidebeak pencil flower	Fabaceae	
<i>Symphyotrichum dumosum</i>	white bushy aster	Asteraceae	
<i>Symphyotrichum lateriflorum</i>	calico aster	Asteraceae	county record
<i>Symphyotrichum patens</i>	late purple aster	Asteraceae	
<i>Symphyotrichum pilosum</i>	white oldfield aster	Asteraceae	
<i>Taxodium distichum</i>	southern baldcypress	Cupressaceae	county record
<i>Tephrosia spicata</i>	spiked hoary pea	Fabaceae	
<i>Tephrosia virginiana</i>	Virginia goat's rue	Fabaceae	
<i>Thyrsanthella difformis</i>	climbing dogbane	Apocynaceae	
<i>Tipularia discolor</i>	crane-fly orchid	Orchidaceae	
<i>Toxicodendron radicans</i>	eastern poison ivy	Anacardiaceae	county record
<i>Tradescantia ohiensis</i>	Ohio spiderwort	Commelinaceae	
<i>Tragia urticifolia</i>	nettle-leaf noseburn	Euphorbiaceae	
<i>Tridens flavus</i>	purple top grass	Poaceae	
<i>Triodanis perfoliata</i>	clasping leaf venus' looking glass	Campanulaceae	
<i>Ulmus alata</i>	winged elm	Ulmaceae	
<i>Urochloa platyphylla</i>	broadleaf signal grass	Poaceae	county record
<i>Uvularia sessilifolia</i>	sessile leaf bellwort	Colchicaceae	
<i>Vaccinium arboreum</i>	sparkleberry	Ericaceae	
<i>Vaccinium elliotii</i>	mayberry	Ericaceae	
<i>Vaccinium fuscatum</i>	black highbush blueberry	Ericaceae	
<i>Vaccinium pallidum</i>	early lowbush blueberry	Ericaceae	
<i>Vaccinium stamineum</i>	deerberry	Ericaceae	
<i>Valerianella radiata</i>	beaked cornsalad	Caprifoliaceae	
<i>Verbascum thapsus</i>	woolly mullein	Scrophulariaceae	not native, invasive
<i>Verbena brasiliensis</i>	Brazilian vervain	Verbenaceae	not native, invasive
<i>Verbena incompta</i>	clasping verbena	Verbenaceae	not native, invasive, county record



TABLE 2 (CONT'D): SPECIES DOCUMENTED WITHIN INVENTORY AREA

<b>Taxon name</b>	<b>Common name</b>	<b>Family</b>	<b>Comments</b>
<i>Vernonia flaccidifolia</i>	woodland ironweed	Asteraceae	county record
<i>Vernonia gigantea</i>	giant ironweed	Asteraceae	
<i>Veronica peregrina</i>	common purslane speedwell	Plantaginaceae	not native
<i>Viburnum rufidulum</i>	rusty blackhaw	Adoxaceae	county record
<i>Viola affinis</i>	sand violet	Violaceae	
<i>Viola bicolor</i>	field pansy	Violaceae	
<i>Viola sagittata</i> var. <i>sagittata</i>	arrowleaf violet	Violaceae	county record
<i>Vitis aestivalis</i>	summer grape	Vitaceae	
<i>Xyris jupicai</i>	Richard's yellow-eyed grass	Xyridaceae	
<i>Yucca flaccida</i>	flaccid leaf yucca	Agavaceae	county record

## **APPENDIX E**

### **STAKEHOLDER COMMENT TABLE**

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<b>Commenting Entity</b>	<b>Date of Comment &amp; Reference</b>	<b>Comment – Project Lands</b>	<b>Alabama Power Response</b>
<p><b>Federal Energy Regulatory Commission (FERC)</b></p> <p>Note: footnotes included in the original letter have been omitted from this table</p>	<p>6/10/2020</p> <p>FERC Accession No. 20200610-3059</p> <p>Comments on Draft Phase 1 Project Lands Evaluation Study Report</p>	<p>The goals of the Project Lands Evaluation include: (1) identifying and classifying lands at the project that are needed for Harris Project purposes; (2) evaluating existing land use classifications at Lake Harris and determining if any changes are needed to conform to Alabama Power’s current land classification system and other Alabama Power Shoreline Management Plans; and (3) identifying lands to be added to, or removed from the current project boundary.</p> <p>Appendix B of the Draft Project Lands Evaluation (Phase 1) Report includes a small scale map of Lake Harris and the existing shoreline classifications, as well as larger scale maps showing parcels of land within the project boundary for which Alabama Power is considering either changing the existing land use classification, adding parcels to the project boundary, or removing parcels from the project boundary. However, the report does not include large scale maps showing the land use classifications for all of the existing shoreline. To facilitate review of the existing shoreline land use classifications, please file larger scale maps of all the shoreline areas as a supplement to the Draft Project Lands Evaluation Report, as part of your response to stakeholder comments on the ISR. Please include land use classifications on the maps. In addition, if available, please file the GIS data layers of the existing and proposed shoreline land use classifications.</p>	<p>Larger scale maps and GIS files were filed with FERC as part of Alabama Power’s Response to Initial Study Report Disputes or Requests for Modifications of Study Plan (Accession No. 20200710-5122). Additionally, larger scale maps are included as an appendix to the Final Phase 1 Project Lands Evaluation Study Report.</p>

<b>Commenting Entity</b>	<b>Date of Comment &amp; Reference</b>	<b>Comment – Project Lands</b>	<b>Alabama Power Response</b>
<p><b>Alabama Department of Conservation and Natural Resources (ADCNR)</b>            Note: footnotes included in the original letter have been omitted from this table</p>	<p>6/11/2020            FERC Accession No. 20200611-5152            Comments on Draft Phase 1 Project Lands Evaluation Study Report</p>	<p>Appendix B includes Figure of Maps and Supporting Information of Proposed Changes of the Project Lands Evaluation Study Report. These maps indicate there are several recreational properties which are being re-classified away from recreation (net loss of 600 acres- page 14, Table 6-1). In addition to the acreages provided, it would be beneficial to provide and understand the amount of linear feet of shoreline for each parcel being proposed for addition, re-classification or removal. Undisturbed natural shorelines and shorelines designated for recreational use benefit wildlife and aquatic resources and also provide recreational opportunities for anglers and hunters. Impacts to shoreline habitat in Lake Harris can negatively impact aquatic, semi-aquatic, and terrestrial species. Studies have shown that undeveloped shoreline areas provide the most suitable habitat for maintaining abundance, diversity, and species richness of aquatic, semi-aquatic, and terrestrial species. We recommend that natural vegetated shorelines remain undisturbed as much as possible when evaluating land classifications and future shoreline land use. When evaluating classification changes, linear lake front footage would be a useful metric to provide. ADCNR would like to ensure a suitable site(s) is(are) identified and reserved for future construction of an appropriately sized boating access facility(ies). Future boating demand on Lake Harris is currently unknown for the entire duration of the license; therefore ADCNR continues to request consultation with Alabama Power in the selection of future recreational sites to safeguard they are located in suitable areas for anglers and boaters. The sites need to be large enough to suit any future demand of boaters and anglers and the sites need to meet the engineering requirements for an appropriately sized facility. We recommend any suitable identified property continue to be classified as recreational. The distribution of public boat ramps in the lake should be fully evaluated when considering reclassifying recreation zoned areas. In areas of the lake with few public boating access points or high boat ramp usage, there should be recreational zoned properties for future boat ramp additions available to meet angler demand.</p>	<p>Shoreline footages were added to the Revised Maps in Appendix B; the need for additional facilities will be evaluated following completion of the recreation study and analyses. Discussions of enhancement measures will occur with the Harris Action Teams during winter 2020/spring 2021.</p>



<b>Commenting Entity</b>	<b>Date of Comment &amp; Reference</b>	<b>Comment – Project Lands</b>	<b>Alabama Power Response</b>
<b>ADCNR</b>	6/11/2020 FERC Accession No. 20200611-5152 Comments on Draft Phase 1 Project Lands Evaluation Study Report	Appendix B, Figures R1-R6 of the Project Lands Evaluation Study Report, indicates that these acreages are not suitable for recreation due to their location within areas of the lake with limited demand for public recreation opportunities. ADCNR requests the opportunity to evaluate the results from the Recreation Evaluation Study prior to this determination for these zoning reclassifications.	Alabama Power agrees to use the results of the Recreation Evaluation study in making a final determination for these areas.
<b>ADCNR</b>	6/11/2020 FERC Accession No. 20200611-5152 Comments on Draft Phase 1 Project Lands Evaluation Study Report	On page 9, of the Project Lands Evaluation Study Report, the third bullet named Project Operations (formerly titled Prohibited Access) states “For security, the allowable uses in this classification are primarily restricted to Alabama Power personnel; however, in some cases, such as guided public tours, limited public access is available.” ADCNR recommends that bank fishing be included in the “some cases” exemptions statement for these areas. Canoe or kayak access points should also be evaluated in these areas during the relicensing process since they are currently nonexistent.	Alabama Power will discuss with ADCNR during development of the Shoreline Management Plan (SMP).
<b>Alabama Glade Conservation Coalition (AGCC)</b>	Email dated 10/19/2020 Comments on Draft Shoreline Management Plan	National Forests use Botanical Area as one of their land use classifications to recognize and address special management requirements for areas with unique and/or diverse plant species. Considering the initial botanical survey has found at least 10 plant species of state and global conservation concern in and around a rare habitat (Piedmont granite outcrops) as well as a good overall representation of plant communities found with Alabama’s Piedmont region, this backcountry area should certainly be recognized/managed as a botanical conservation area whether or not a special botanical land use designation is added to the land use plan.  The Sensitive land use classification overlay should be considered for the proposed Flat Rock backcountry conservation lands whether they are is reclassified as Natural Undeveloped or a special Botanical Area designation. However, if the Sensitive land use classification overlay would restrict/prohibit walk in public access to the area for those who want to appreciate the plants and other natural features and/or restrict/prohibit any of the above forms of active management needed to help maintain the botanical resources of the area then the Sensitive land use classification overlay would not be appropriate for the proposed botanical conservation area.	The Natural/Undeveloped land use classification as currently defined in the draft SMP meets the recommendations to protect this area. Therefore, no additional land use classification is being proposed.  Alabama Power does not believe that a sensitive designation is needed to provide the protections recommended by AGCC. As described in Section 4.2 of the draft SMP, designations are used in conjunction with the shoreline classifications in order to highly restrict or prohibit permitted activities in areas designated as sensitive. For example, a homeowner who submits a permit application for the construction of a boat ramp will be subject to additional requirements and could possibly be denied a permit if the area is designated as sensitive. However, the Flat Rock botanical area will not be subject to permitting applications since the land is owned by Alabama Power and will be classified as Natural/Undeveloped.

<b>Commenting Entity</b>	<b>Date of Comment &amp; Reference</b>	<b>Comment – Project Lands</b>	<b>Alabama Power Response</b>
<b>AGCC</b>	<p>Email dated 10/19/2020</p> <p>Comments on Draft Shoreline Management Plan</p>	<p>Minimize heavy recreational/vehicle impacts</p>	<p>As currently outlined in the draft SMP (Section 4.1.7), the Natural/Undeveloped land use classification ensures that Project lands remain undeveloped for, among other purposes, the purpose of protecting environmentally sensitive areas. As such, management of lands within this classification in a manner to minimize heavy recreational/vehicle impacts in order to protect the area is consistent with the current proposal. Reclassifying the area from Recreation to Natural/Undeveloped supports the future possible need to take such management actions.</p>
<b>AGCC</b>	<p>Email dated 10/19/2020</p> <p>Comments on Draft Shoreline Management Plan</p>	<p>Removal and reduction of exotic invasive plants; Controlled reintroduction of fire to the natural community</p>	<p>Alabama Power manages land within the Natural/Undeveloped classification in accordance with normal forestry management practices, as outlined in the Draft Harris Wildlife Management Plan (WMP) developed in conjunction with the SMP, and the Natural/Undeveloped classification does not preclude the future removal and reduction of exotic invasive plants and/or controlled reintroduction of fire to the natural community as deemed necessary and as determined to be in accordance with Alabama Power's overall timber management practices.</p>
<b>Ken Wills, Stakeholder</b>	<p>Email dated 10/31/2020</p> <p>Comments on Draft Annotated Outline for the Wildlife Management Plan</p>	<p>Much of the project lands in the Lake Harris Area are loblolly pine plantations and there may be some pine plantations on the naturally pure hardwood lands of the Skyline properties as well...Thick pine plantations should be heavily thinned...Regular controlled burns especially growing season burns will help foster this herbaceous diversity by keeping woody undergrowth at bay and fostering reproduction of fire dependent plants. Also, the overall forest stand health and quality of the pine saw timber produced by such thinning and controlled burning should improve as well as stands mature prior to harvest.</p>	<p>Timber Management practices, including thinning, are outlined in the draft WMP.</p> <p>Alabama Power currently conducts controlled burns on +/-160 acres at Lake Harris.</p> <p>Alabama Power does not conduct controlled burns at Skyline due to the extremely steep terrain and difficult access, which would enhance issues in managing fires should they become uncontrollable.</p>



<b>Commenting Entity</b>	<b>Date of Comment &amp; Reference</b>	<b>Comment – Project Lands</b>	<b>Alabama Power Response</b>
<b>Ken Wills, Stakeholder</b>	<p>Email dated 10/31/2020</p> <p>Comments on Draft Annotated Outline for the Wildlife Management Plan</p>	<p>When the hopefully savanna like mature loblolly stands are ready for harvest in the Lake Harris area, they should be replanted with pine species that historically covered such upland Piedmont sites such as longleaf or shortleaf pine. While such stands should be managed to maintain their open savanna like character as they mature between harvests, some more fire tolerant upland hardwoods such as oak and hickory should be allowed to naturally mingle with shortleaf pine especially on the upper slopes. The more cool and moist slope and ravine lands that were converted to loblolly plantations should be allowed to revert to pine hardwood or hardwood forest following the harvest of the mature loblolly plantations as well.</p>	<p>Timber Management practices are outlined in the draft WMP.</p>
<b>Ken Wills, Stakeholder</b>	<p>Email dated 10/31/2020</p> <p>Comments on Draft Annotated Outline for the Wildlife Management Plan</p>	<p>The upper slopes of the project lands around the Lake Harris area contain some high quality shortleaf/hardwood forest which should be maintained largely in the current composition, but those stands would benefit from controlled burns of a less frequent nature as would ridge top upland oak-hickory stands including those in the Skyline area, thus helping to restore them to a more natural open savanna like state to those habitats as well.</p>	<p>See above responses.</p>
<b>Ken Wills, Stakeholder</b>	<p>Email dated 10/31/2020</p> <p>Comments on Draft Annotated Outline for the Wildlife Management Plan</p>	<p>The more moist hardwood forests of lower slopes, north facing slopes, limestone slopes, coves and riparian areas should be maintained in their current composition because of their hard mast production for wildlife, denning/nesting sites associated with hollow hardwoods, spring ephemeral wildflower diversity as well as their buffering/filtering value to protect water quality. The project lands in the Skyline area contain some excellent lower slope Mixed Mesophytic forests including Yellow Buckeye, true Sugar Maple and Basswood which are state level uncommon species/forest associations that just barely reach Alabama from the north, and extra efforts should be made to maintain these sites in their current forest composition.</p>	<p>See above responses.</p>
<b>Ken Wills, Stakeholder</b>	<p>Email dated 10/31/2020</p> <p>Comments on Draft Annotated Outline for the Wildlife Management Plan</p>	<p>The project lands in the Skyline area may contain some exposed dry sloped/outcrops of limestone dominated by Eastern Red Cedar and calcium loving hardwoods of the xeric type. Such sites should be considered for controlled burns and possibly thinnings to remove some of the scrubby overstory and allow the historic diversity of native grasses and wildflowers that occupied such limestone "barrens" to flourish.</p>	<p>See above responses.</p>

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<b>Ken Wills, Stakeholder</b>	<p>Email dated 10/31/2020</p> <p>Comments on Draft Annotated Outline for the Wildlife Management Plan</p>	<p>Granite outcrops are very limited on project lands around Lake Harris with most if not all being located in the proposed Flat Rock backcountry conservation/botanical area. The rare plant habitats of the more pristine granite outcrops should be protected from heavy foot traffic and all vehicle traffic, and the surrounding upland forests should be considered for controlled burns where practical. Control of exotic invasive such as Chinese Privet in and around the granite outcrops is important for maintaining/improving these rare habitats as well. There are opportunities for collaborative work with scientists, volunteers and associated groups to help maintain and improve these very rare granite outcrop related natural communities on project lands in the Lake Harris area.</p>	<p>See above responses.</p>
<b>Federal Energy Regulatory Commission (FERC)</b>	<p>FERC Accession No. 20210609-3045</p> <p>Comments on the Updated Study Report (USR) and USR Study Report Meeting Summary</p>	<p>Please file documentation that all of the Phase 2 tasks have been completed for the SMP and WMP and provide the information that was collected in Phase 2 of the Project Lands Evaluation Study with the PLP.</p>	<p>Documentation of the Phase 2 tasks was filed on June 29, 2021 under Accession Number 20210629-5089.</p>
<b>Federal Energy Regulatory Commission (FERC)</b>	<p>FERC Accession No. 20210609-3045</p> <p>Comments on the Updated Study Report (USR) and USR Study Report Meeting Summary</p>	<p>Please file the geographic information system (GIS) data associated with the approved study plan to the Commission's eLibrary system with the PLP.</p>	<p>GIS data associated with the approved study plan was filed on June 29, 2021 under Accession Number 20210629-5089.</p>
<b>Federal Energy Regulatory Commission (FERC)</b>	<p>FERC Accession No. 20210609-3045</p> <p>Comments on the Updated Study Report (USR) and USR Study Report Meeting Summary</p>	<p>The botanical inventories conducted at two parcels adjacent to Flat Rock Park documented 22 non-native invasive plant species among the native plants that were observed. If available, please provide additional information about the locations and/or extents of these plants in relation to rare or state/county record native plants or potential state Champion Trees.</p>	<p>All available information was provided as part of the reports documenting the surveys of the 20-acre parcel (Accession No. 20201002-5139) and the 35-acre parcel (Accession No. 20210412-5746).</p>



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<b>Federal Energy Regulatory Commission (FERC)</b>	<p>FERC Accession No. 20210609-3045</p> <p>Comments on the Updated Study Report (USR) and USR Study Report Meeting Summary</p>	<p>The initial botanical inventory documented disturbance/damage to the native plants caused by All-Terrain Vehicle (ATV) use. Please provide additional detail regarding ATV use in this area including: (1) the location(s) of ATV access on the two surveyed parcels; (2) location(s) of any established ATV trails near the surveyed parcels; (3) the extend of damage to the native plants/communities; and (4) a detailed description of any measures that may have been implemented to protect the native plants/communities.</p>	<p>This information is included within Exhibit E of the Final License Application (FLA).</p>
<b>Ken Wills, Stakeholder</b>	<p>Email dated 07/28/2021</p> <p>Comments on Draft Wildlife Management Plan</p>	<p>Since the Skyline mitigation lands are part of this project, I have some specific comments relating to those lands. The Skyline Mountains of Jackson County are one the last areas in Alabama with a breeding population of the rare Cerulean Warbler. This neotropical migrant has declined in large part due to fragmentation of its forested habitat. Fragmentation is usually caused by creating large permanent openings in the forest such as subdivisions, large agricultural clearings and large road ways. The Cerulean Warbler is a great indicator species to monitor in relation to unfragmented forest habitat. The limited timber harvest and wildlife openings proposed within Alabama Powers property at Skyline should not cause significant or long-term fragmentation of this rare bird's habitat, but it would be good for Alabama Power to work with the Department of Conservation (possibly the State Lands Division biologists) to monitor the population of Cerulean Warblers on the Alabama Power lands just to make sure ongoing management activities do not contribute to the decline of the rare Cerulean Warbler.</p>	<p>The habitat at Skyline is at the southern extent of the Cerulean Warbler's breeding range. Activities occurring in its range and associated effects would not necessarily be indicative of any effects of management activities occurring at Skyline. Alabama Power is not proposing any protection, mitigation, or enhancement measures pertaining to the Cerulean Warbler at Skyline.</p>

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<b>Ken Wills, Stakeholder</b>	Email dated 07/28/2021 Comments on Draft Wildlife Management Plan	The Skyline Mountains contain the largest concentration of Mixed Mesophytic Hardwood Forest in the state of Alabama. Some of the classic species associated with this forest type such as Yellow Buckeye reach their southern limit in the northeast corner of Alabama. This habitat is one of the richest temperate forests in the world in terms of tree and Spring wildflower species. This habitat is referred to as South Central Interior Mesophytic Forest in the wildlife management plan. It is associated with cove bottoms and lower slopes often on soils derived from the surrounding limestone outcrops. I have seen good examples of this forest in the Coon Creek drainage on these Alabama Power lands. The mixed mesophytic forest occurs largely in the streamside management zones (SMZs) which as I understand will be excluded from logging in the wildlife management plan for both the Harris and Skyline properties. Therefore, I recommend that all the mixed mesophytic forest of the Skyline property be excluded from timber harvest including the limited amount of this forest type that extends above the SMZ zones. The indicators species for mixed mesophytic forest is a significant amount of yellow buckeye, basswood, white ash, and sugar maple. Since mixed mesophytic forest is limited to areas in and around the SMZs, leaving this forest type uncut should not significantly impact timber cutting/management plans for encouraging more oak in the overall hardwood forest of the property. Oaks, especially Northern Red Oak, are a component of the Mixed Mesophytic Forest type, but oaks are never dominate in this very diverse forest type. Therefore, mixed mesophytic forest on the lower slopes should not be cut to increase oak. Leaving these mixed mesophytic forests of the lower slopes uncut will help maintain these very diverse forests which are rare in Alabama.	Timber Management practices are outlined in the draft WMP.
<b>Ken Wills, Stakeholder</b>	Email dated 07/28/2021 Comments on Draft Wildlife Management Plan	In regards to the 476 acres of pine plantations on the Harris Lands and anywhere else they are found on project lands, I would recommend that those areas receive special attention in terms of thinning them and burning them. Pine plantations especially middle aged plantations are usually densely stocked with little plant diversity. Those stands should be heavily thinned out and burned to create a more natural savanna like pine forest with a diverse herb layer. This will be beneficial to wildlife and produce quality saw timber in the long term.	Timber Management practices are outlined in the draft WMP.
<b>Ken Wills, Stakeholder</b>	Email dated 07/28/2021 Comments on Draft Wildlife Management Plan	Where practical, I encourage more controlled burns on the ridges and upper slopes of both the Harris and Skyline lands. Restoring upper slope/ridgetop forest to their more historical savanna like state (ex. Shortleaf Pine-Little Bluestem Savanna, Oak Savanna, and Cedar Glades) will increase herbaceous diversity in these forests which is good for wildlife forage.	Timber Management practices are outlined in the draft WMP.  Alabama Power currently conducts controlled burns on +/-160 acres at Lake Harris.



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<b>Ken Wills, Stakeholder</b>	Email dated 07/28/2021 Comments on Draft Wildlife Management Plan	I would encourage Alabama Power to not only share information on native species plantings with Harris Lake homeowners/landowners, but to also share information on invasive exotic species that should not be planted around the lake including Taro, Nandina and Variegated Privet. Organizations such as the Southeastern Exotic Pest Plant Council should be able to help with such information.	Comment noted.
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021 Comments on Draft Wildlife Management Plan	On pages 3-1 and 3-2 of the Draft Wildlife Management Plan (WMP), the bullets list various activities from the 1988 and 1990 WMP that are “completed” and “ongoing.” In the revised Draft WMP, please provide a table listing the existing/completed/ongoing measures and clarifying which measures are proposed to be included in the final WMP and implemented under a new license, as well as where the measures would be implemented (i.e., at Harris Lake, Skyline, or both locations). Please display the locations where the measures were/would be implemented on maps, if possible. For the existing/completed/ongoing measures that are also proposed to continue as part of the current Draft WMP, please confirm whether the location(s) in which the measures would be implemented would change from their current location(s).	A table listing existing/completed/proposed measures (including location information) is included within Exhibit E of the FLA.  Maps of measures proposed under the new license and the respective locations have been added to the draft WMP.
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021 Comments on Draft Wildlife Management Plan	On page 3-2, under the 1988 WMP activity summary, one of the bullets describes “Additional Nesting Structures” that were constructed and installed for large and small animals, including cavity-nesting birds, which are in addition to the structures constructed and installed for wood ducks, Canada geese, and osprey. In the revised Draft WMP, please include a list of the large and small animals/cavity nesting birds, for which the structures were designed and clarify which of these target species have actually used the structures.	Because this information is not regarding a proposed measure under the new license, it has been removed from the draft WMP and is provided in Exhibit E of the FLA.
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021 Comments on Draft Wildlife Management Plan	On page 3-2, under the 1990 Skyline WMP activity summary, one bullet describes “Development” including “establish wildlife openings, construct firebreaks, construct waterholes, and add additional campsites as needed.” In the revised Draft WMP, please provide a description of the areas they cover (i.e., acreage of wildlife openings, area of waterholes, widths of firebreaks, typical sizes of campsites). In addition, please clarify what ongoing maintenance, if any, is proposed for the firebreaks and waterholes.	Alabama Power is not proposing any protection, mitigation, or enhancement measures (PMEs) pertaining to firebreaks or waterholes. Because this information is not regarding a proposed measure under the new license, it has been removed from the draft WMP and is provided in Exhibit E of the FLA.  Details regarding maintenance of existing campsites and wildlife openings have been added to the WMP to provide clarity.

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<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021 Comments on Draft Wildlife Management Plan	On page 3-2, under the 1990 Skyline WMP activity summary, another bullet describes "Maintenance" including "conduct annual boundary maintenance, upgrade roads to all-weather status and maintain annually, and install and maintain gates, maintain campsites, and erect and maintain nest structures." In the revised Draft WMP, please clarify what is meant by "annual boundary maintenance." In addition, please describe the specific maintenance activities involved with each of these areas, including the existing and proposed methods, materials, and equipment used, and the frequency that this work occurs or would occur. Please also describe the purpose(s) of the gates and whether or not they are connected to any fencing.	Details have been added to the WMP to provide clarity.
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021 Comments on Draft Wildlife Management Plan	On page 3-2, under the 1990 Skyline WMP activity summary, the last bullet describes "Operations" including "develop and maintain herbaceous and shrub plantings; manage wildlife openings, and conduct timber management." In the revised Draft WMP, please include more detail about the methods, materials, and equipment used in each operations activity, and the existing and proposed frequency of this work (if not already described in another section of the Draft WMP). For example, please describe the herbaceous and shrub species mix used, how the areas are maintained after plantings, and the specific wildlife these areas are intended to benefit.	Details have been added to the WMP to provide clarity.
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021 Comments on Draft Wildlife Management Plan	Section 3 of the Draft WMP mentions an assessment of wetland and riparian areas at/below Alabama Power regulated property on Lake Harris that Alabama Power contracted Cahaba Consulting to conduct. Please ensure that Cahaba Consulting's survey report(s) are filed to the Commission's record and cited in the revised Draft WMP.	Reference to the survey report as filed on the Commission's record has been added to the WMP.
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021 Comments on Draft Wildlife Management Plan	On page 3-9 of the Draft WMP, there is a description of a proposed measure to protect potential occurrences of the federally listed Price's potato bean in the Skyline portion of the project area. Also, section 7 of the Draft WMP includes descriptions of proposed measures to protect the federally listed northern long-eared bat and Indiana bat. Please ensure that any proposed environmental protection, enhancement, and mitigation (PM&E) measures in the Draft WMP that are designed to protect state and/or federally listed species are clearly and prominently identified as proposed PM&Es for those particular species in the final WMP and in the license application under either Aquatic Resource/Terrestrial Resource measures (i.e., for state listed species), and under Threatened and Endangered Species (i.e., for federally listed species).	Comment noted.



<b>Commenting Entity</b>	<b>Date of Comment &amp; Reference</b>	<b>Comment – Project Lands</b>	<b>Alabama Power Response</b>
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021	On page 5-2 of the Draft WMP, it states that planting of native species will be required on all lands within the SMP Recreation and Commercial Recreation classifications and recommended as a BMP on all other Project lands. In the revised Draft WMP, please clarify that Alabama Power (i.e., as opposed to another entity) proposes to implement the planting of native species in the SMP Recreation and Commercial Recreation classifications. Please also elaborate on the mix of native species that would be used, including the level of nativity (straight natives, local ecotypes, or if the species mix would also include cultivars). In addition, please clarify if and how these native plantings are/would be maintained.	Details have been added to the WMP to provide clarity.
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021	Sections 7 and 8 of the Draft WMP discuss the proposed timber and hunting area management practices. In the revised Draft WMP, please include definitions for the forestry/timber/vegetation management terms such as "saw timber," "pulpwood," "natural longleaf pine," "natural pine," "shelterwood," and "greenfields."	Language has been added to the WMP to provide clarity.
<b>Federal Energy Regulatory Commission (FERC)</b>	Email dated 07/29/2021	On page 7-8 of the Draft WMP, it states that "the management of the timber not only works in concert with but also enhances the primary objectives of sound wildlife management, habitat improvement, and aesthetics." In the revised Draft WMP, please provide a list of specific wildlife species that each proposed timber/vegetation management activity is designed to benefit and elaborate on how each these management activities would enhance or improve these species' habitat(s).	Details have been added to the WMP to provide clarity.