

T E N N E S S E E V A L L E Y A U T H O R I T Y



Multiple Reservoir Land Management Plans

DRAFT ENVIRONMENTAL IMPACT STATEMENT

Volume VIII *Wheeler Reservoir*

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WHEELER RESERVOIR

Draft Reservoir Land Management Plan

VOLUME VIII

MULTIPLE RESERVOIR LAND MANAGEMENT PLANS DRAFT ENVIRONMENTAL IMPACT STATEMENT

Prepared by
Tennessee Valley Authority

December 2016

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ACRONYMS AND ABBREVIATIONS

§	Section
APE	Area of Potential Effect
ADCNR	Alabama Department of Conservation and Natural Resources
ADEM	Alabama Department of Environmental Management
CFR	Code of Federal Regulations
CR	County Road
CVLP	Comprehensive Valleywide Land Plan
dBA	A-Weighted Decibel
EIS	Environmental Impact Statement
EO	Executive Order
HPA	Habitat Protection Area
kV	Kilovolt
MGD	Million Gallons per Day
msl	Mean Sea Level
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
NRP	Natural Resource Plan
RFAI	Reservoir Fish Assemblage Index
RLMP	Reservoir Land Management Plan
ROW	Right-of-Way
RVSMP	Reservoir Vital Signs Monitoring Program
SMI	Shoreline Management Initiative
SMP	Shoreline Management Policy
SR	State Route
SWA	Small Wild Area
TL	Transmission Line
TRM	Tennessee River mile
TVA	Tennessee Valley Authority
U.S.	United States
USACE	U.S. Army Corps of Engineers
USCB	U.S. Census Bureau
USDA	U.S. Department of Agriculture
USDOI	U.S. Department of Interior
USFWS	U.S. Fish and Wildlife Service
Valley	Tennessee River Valley Region
WMA	Wildlife Management Area
WNWR	Wheeler National Wildlife Refuge

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CHAPTER 1. INTRODUCTION

The draft Wheeler Reservoir Land Management Plan (RLMP) is a study of the Tennessee Valley Authority (TVA)-managed public land surrounding Wheeler Reservoir. It is one of eight draft RLMPs considered under Alternative B of this Environmental Impact Statement (EIS). The EIS Volume I, contains information on the scoping process, allocation process, alternatives, comparison of the alternatives, and analysis of impacts. In addition, the EIS contains a summary, an index and appendices.

Volume VIII of the EIS addresses TVA's draft RLMP for Wheeler Reservoir. This document provides background information about TVA land management throughout its history and specifically TVA management of public land surrounding Wheeler Reservoir. It explains the purpose of the draft RLMP and describes the process used in its development. The draft RLMP includes the planning process, which lists the objectives around which the RLMP was developed and a summary of the allocation process. The Wheeler Reservoir Regional Overview (Chapter 2) describes the natural and social development of the reservoir and the surrounding area. The Parcel Descriptions (Chapter 4) include total acreage and parcel descriptions documenting proposed land management allocations. The allocation map is included as Appendix A of this RLMP.

Once TVA completes its Multiple RLMP EIS, this Volume will serve as the consolidated planning document addressing management of TVA reservoir lands on Wheeler Reservoir and will be available to TVA staff and the public.

1.1 Tennessee Valley Authority History

President Franklin Roosevelt needed creative solutions to lift the nation out of the depths of the Great Depression, and the TVA is considered one of his most innovative initiatives. Roosevelt envisioned TVA as an agency different from any other. He asked Congress to create “a corporation clothed with the power of government but possessed of the flexibility and initiative of a private enterprise.” On May 18, 1933, Congress passed the Tennessee Valley Authority Act (TVA Act). A link to the TVA Act is available at <https://www.tva.com/About-TVA/Our-History>.

From the start, TVA established a unique problem-solving approach to fulfilling its mission: Integrated Resource Management. Each issue TVA faced—whether it was power production, navigation, flood control, malaria prevention, reforestation, or erosion control—was studied in its

broadest context. TVA weighed each issue relative to the others. From this beginning, TVA has held fast to its strategy of integrated solutions, even as the issues changed over the years. A short TVA history and a link to the TVA Act is available at

<http://www.tva.com/abouttva/history.htm>.

1.2 Overview of TVA's Mission and Environmental Policy

1.2.1 TVA's Mission

TVA has a rich history of improving quality of life and economic prosperity for people and businesses in the TVA service area. TVA was created by Congress in 1933 and charged with a unique mission—to improve the quality of life in the Valley through the integrated management of the region's resources. For more than eight decades, we have worked tirelessly to carry out that mission, and we are working just as hard to make life better for the nine million people who live in the Valley today. We serve the people of the Tennessee Valley by focusing on three key areas: energy, environment, and economic development.

1.2.2 Environmental Policy

As stated in TVA's 2007 Strategic Plan, "TVA will be proactive in addressing environmental concerns, including those related to global climate change." About half of the identified strategic objectives and critical success factors in the plan relate directly to TVA's environmental activities and policy making.

Following the release of the 2007 Strategic Plan, the TVA Board asked for the development of an integrated environmental policy to outline objectives and critical success factors across the multiple areas of TVA's activities. In 2008, the TVA Board approved the Environmental Policy, which provides guiding principles for reducing the environmental impacts of TVA operations while continuing to provide reliable and affordable power to the Valley. In 2010, a biennial review of the Environmental Policy was completed, which did not result in major changes or revisions. TVA's overarching Environmental Policy objective is to provide cleaner, reliable, and affordable energy; support sustainable economic growth in the Valley; and engage in proactive environmental stewardship in a balanced and ecologically sound manner. A copy of the Environmental Policy is available at <http://www.tva.com/environment/policy.htm>.

1.2.3 Land Policy

On behalf of the United States (U.S.), TVA originally acquired approximately 1.3 million acres of land in the Valley. Creation of the TVA reservoir system inundated approximately 470,000 acres with water. TVA has transferred or sold approximately 508,000 acres, the majority of which was transferred to other federal and state agencies for public uses. TVA currently controls approximately 293,000 acres of reservoir lands, which continue to be managed pursuant to the TVA Act (Figure 1-1). As part of its management of these lands, TVA allocates them to various land use zones (see Section 3.1). These TVA-managed lands are frequently referred to as “TVA lands” in this document.

In 2006, TVA adopted a Land Policy to guide retention, disposal, and planning of real property. Accordingly, it is TVA’s policy to manage its lands to protect the integrated operation of the TVA reservoir and power systems, to provide for appropriate public use and enjoyment of the reservoir system, and to provide for continuing economic growth in the Valley. Recognizing that historical land transfers have contributed substantially to meeting multipurpose objectives, TVA maintains the policy of retaining in public ownership the reservoir lands under its control except in those rare instances where the benefits to the public will be so significant that transferring lands to private ownership or another public entity is justified. The Land Policy is available at <https://www.tva.gov/Environment/Environmental-Stewardship/Land-Management/TVA-Land-Policy>

1.2.4 Shoreline Management Policy

In November 1998, TVA completed a Shoreline Management Initiative (SMI) EIS (TVA 1999) analyzing possible alternatives for managing residential shoreline development throughout the Valley. In April 1999, TVA adopted the agency’s current Shoreline Management Policy (SMP), which incorporates a strategy of managing public shoreline through an integrated approach that conserves, protects, and enhances shoreline resources and public use opportunities while providing for reasonable and compatible use of the shoreline by adjacent residents. The SMP defines the standards for vegetation management, docks, shoreline stabilization, and other residential shoreline alterations. The SMI EIS is available at <https://www.tva.com/Environment/Environmental-Stewardship/Environmental-Reviews/Shoreline-Management-Policy>

Draft Wheeler Reservoir Land Management Plan

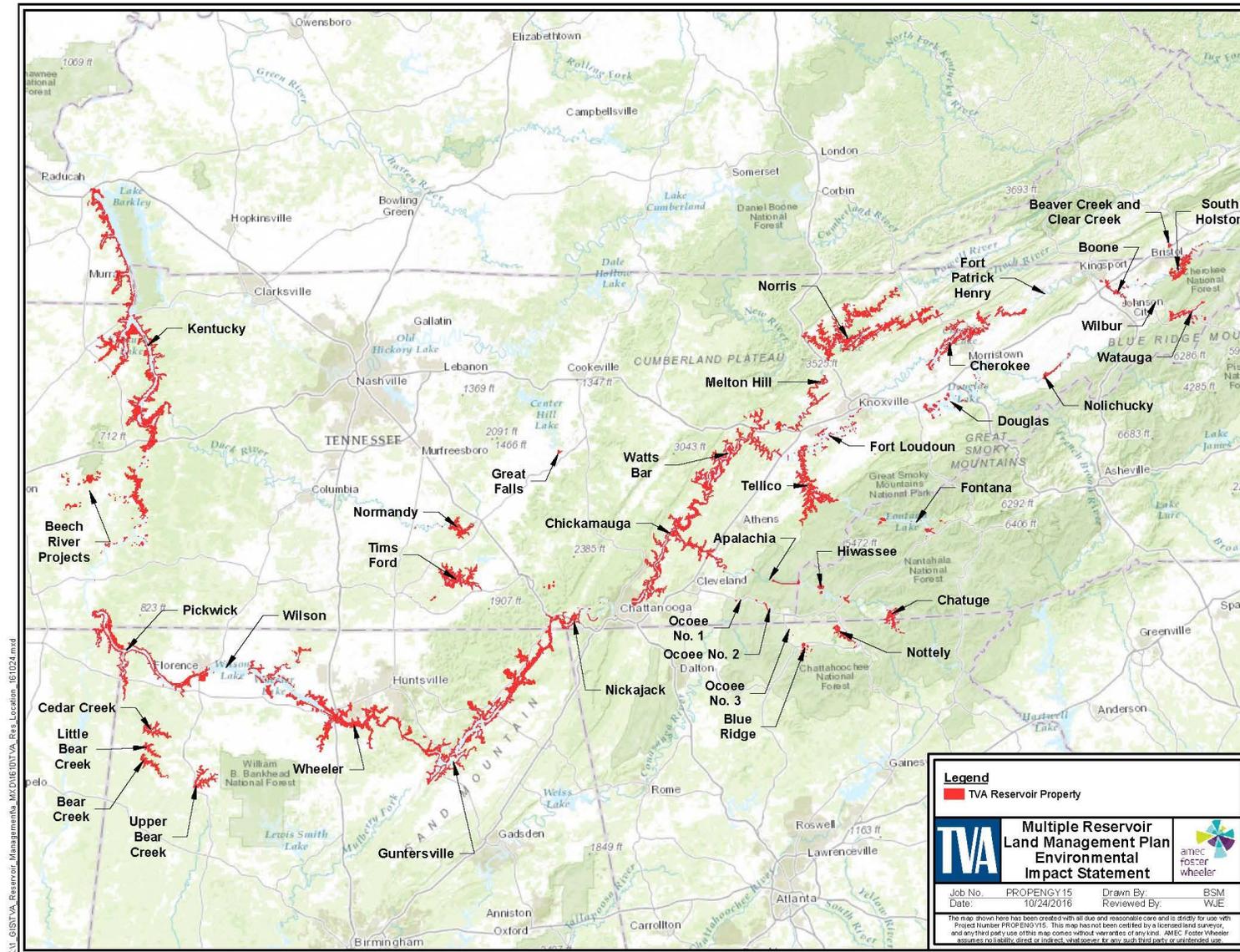


Figure 1-1. TVA Managed Reservoir Land

1.3 The Natural Resource Plan

In 2011, TVA completed a Natural Resource Plan (NRP) (TVA 2011) that strategically guides the management of both renewable and nonrenewable resources, underscoring the importance of protecting those resources that will be lost forever if they are not actively protected or improved today. TVA is one piece of the solution and recognizes the need for a coordinated and collaborative effort to meet the near- and long-term resource needs. As such, the NRP is designed to:

- Integrate the objectives of six resource areas (biological, cultural, recreation, water, public engagement, and reservoir lands planning)
- Provide optimum public use benefit
- Balance competing and sometimes conflicting resource uses

These competing interests, coupled with today's environmental awareness and focus on preserving nonrenewable resources, underscore the necessity for a consistent approach to the management of TVA lands. The NRP represents TVA's high-level strategy for managing its natural resources in the near and long term. Detailed implementation plans, such as this draft RLMP, are being developed based on the NRP to drive specific implementation efforts. The NRP is available at <https://www.tva.com/Environment/Environmental-Stewardship/Environmental-Reviews/Natural-Resource-Plan>

1.4 Purpose of Reservoir Land Planning

As a regional development agency and the nation's largest public power provider, TVA is committed to protecting and sustaining the environmental resources of the Valley for future generations through leadership in clean energy innovation and environmental management. In managing its public lands and resources, TVA seeks to provide efficient resource stewardship that is responsive to stakeholder interests.

TVA intends to manage its public land for an optimum level of multiple uses and benefits that protect and enhance natural, cultural, recreational, and visual resources in a cost-effective manner. Through this approach, TVA ensures that resource stewardship issues and stakeholder interests are considered while optimizing benefits and minimizing conflicts.

Draft Wheeler Reservoir Land Management Plan

As part of the NRP, TVA developed a Comprehensive Valleywide Land Plan (CVLP). The CVLP guides resource management and administration decisions on the approximately 293,000 acres of TVA lands around 46 reservoirs. It identifies the most suitable uses for the land under TVA's control, identifying areas for project operations, sensitive resource management, natural resource conservation, industrial/commercial development, developed recreation, and shoreline access. The objectives of the CVLP are designed to implement TVA's mission of serving the Valley through energy, environment, and economic development. Under the CVLP, TVA will develop and update RLMPs, such as this plan, for a portion of a reservoir, an entire reservoir, or a group of reservoirs. RLMPs are consistent with TVA's policies and programs discussed within this chapter.

The CVLP will be recalibrated as needed (as described under Alternative B in Volume I of this EIS, TVA proposes to update the target ranges of the CVLP to incorporate the findings of the eight proposed RLMPs). The CVLP was based, in part, on the anticipation that some parcels of land may be better allocated to different land use zones from those initially identified. For example, field assessments may identify additional areas that warrant the sensitive resource management allocation. In addition, during the creation or update of each individual RLMP, TVA may determine, either for its own management purposes or as a result of public input, that certain parcels of land should be used differently from how they have been used in the past. The preliminary results of the Wheeler Reservoir planning effort have been included in determining the potential revisions to the CVLP. The draft Wheeler RLMP and proposed revisions to the CVLP will be included in the five-year cyclic review of the NRP. The next cyclic review of the NRP is slated for 2017.

CHAPTER 2. REGIONAL OVERVIEW

2.1 History of Wheeler Dam

The headwaters of the Tennessee River are in eastern Tennessee, in southwestern Virginia, western North Carolina, and in northern Georgia. The Tennessee River is formed by the confluence of the Holston and French Broad rivers just above Knoxville, Tennessee. The river flows in a southwesterly direction through Tennessee, crosses northern Alabama, forms a small portion of the northeastern boundary of Mississippi, and then flows north through western Tennessee and western Kentucky to empty into the Ohio River at Paducah, Kentucky, a distance of about 650 miles. The Tennessee River drains an area of 40,910 square miles, about equal to the area of Ohio. The headwaters are in the Great Smoky Mountains and the Blue Ridge Mountains, which are the highest ranges east of the Rockies. The mountain region is in striking contrast to the relatively flat lands of northern Alabama and to the rolling land of western Kentucky.

The series of rapids between the cities of Decatur and Florence, Alabama, through which the Tennessee River falls 134 feet in 37 miles, created a formidable obstacle to transportation during the early period of settlement when water routes constituted almost the only avenue of penetration into the wilderness west of the Alleghenies. The 16-mile reach at the downstream end of these rapids, where the river falls 100 feet, is the famous Muscle Shoals. The obvious desirability of continuous navigation along the river resulted in many plans and suggestions for improvement and with the advent of organized government in the territory, two attempts were made to construct canals and locks to bypass the shoals. These canals, although eventually constructed and used, were inadequate, expensive to maintain and operate, and of little lasting benefit.

The growing utilization of hydroelectric power introduced a possible solution to the navigation problem by making possible a multi-purpose, income-producing development. Starting in 1898, legislation was introduced by the U.S. Government concerning the navigation of the Tennessee River and the disposition and development of the area between Decatur and Florence, Alabama. Specifically, the Rivers and Harbors Act, approved by Congress on July 3, 1930, allowed for the permanent improvement of the main stream of the Tennessee River for a navigable depth of 9 feet.

The Emergency Relief and Construction Act of July 21, 1932, appropriated \$30 million for previously authorized river and harbor projects. Construction began on the Wheeler Dam and lock in November 1932, under the provisions of this act. Initially, the lock was to be a single 37-foot lift structure. This lock, with the construction of a dam of corresponding height, would have established the reservoir level at elevation 542-foot mean sea level (msl) and would extend the 9-foot navigation approximately 45 miles upstream without additional channel improvement.

Soon after the creation of TVA, the Board arranged with the U.S. Army Corps of Engineers (USACE) for changing the Wheeler lock then under construction to allow more adequate development of this section of the river. TVA's studies indicated the advisability of raising the dam above the height planned by the USACE to provide a longer navigation pool, increased flood storage space in the reservoir, and additional power facilities. The final design of the dam provided for a maximum controlled pool level at elevation 556.3-feet msl, approximately 12 feet higher than the elevation planned by the USACE.

Wheeler Dam was named for General Joe Wheeler whose home, at Wheeler, Alabama, about 17 miles from the dam site, for years has been one of the principle points of interest in that part of the state. General Joe Wheeler, a member of the U.S. Congress, from Alabama, in 1898 introduced a bill providing for the development of Muscle Shoals as a power-navigation project by the Muscle Shoals Power Company. The proposed project contemplated the construction of canals and power plants in the Shoals. Although no construction was undertaken, the bill was the first of the series, which ultimately led to the passage of the TVA Act in 1933.

2.2 Wheeler Reservoir and Present Shoreline

Construction of Wheeler Dam began in late 1932 and was completed in 1936. It was the second dam TVA built, finished only seven months after Norris. Located at Tennessee River mile (TRM) 274.9, Wheeler Dam is 72 feet high and stretches 6,342 feet across the Tennessee River in Lauderdale and Lawrence counties in Alabama. The dam is 15.5 miles above Wilson Dam; 29.5 miles below Decatur, Alabama; 50 miles west of Huntsville, Alabama; and 95 miles north of Birmingham, Alabama.

The reservoir has a volume of 1,050,000 acre-feet at elevation 556.0 feet msl (summer pool) and a flood storage capacity of 326,500 acre-feet between top-of-gates (elevation 556.28) and elevation 551 msl. To maintain the water depth required for navigation, the minimum winter

elevation for the reservoir is 550.5-feet msl, and the typical summer operating range is between 555- and 556-feet msl. Wheeler Dam has two locks, one 110 feet wide by 600 feet long and the other is 60 feet wide by 360 feet long. They lift and lower barges as much as 52 feet between Wheeler and Wilson reservoirs.

The Tennessee River drainage area at Wheeler Dam is approximately 29,590 square miles. The reservoir property is situated in Lauderdale, Lawrence, Limestone, Madison, Marshall, and Morgan counties in Alabama.

The Wheeler Reservoir has 1,063 miles of shoreline and a total surface area of approximately 67,070 acres. To create this reservoir, it was necessary to acquire approximately 103,897 acres of land and land rights for flooding, erosion control, and other purposes; clear over 31,200 acres; move 840 families and 176 graves; relocate or protect highways, railroads, and utility lines, and provides adjustments for other backwater damages.

The land was acquired by unencumbered fee purchases except where there were outstanding mineral rights in properties lying above the flood level of the reservoir and where it was found more desirable to purchase easements. No attempt was made to acquire such mineral interests; this resulted in lower acquisition costs and avoided the reduction of possible mineral development in the area. The greater part of the land acquired for the reservoir had been used for agriculture, corn and hay having been grown on the bottom fields and cotton on the uplands. Flowage rights for backwater adjustments were acquired in the Dry Creek area and along the Decatur waterfront.

2.2.1 Land Use and Prime Farmland

TVA originally acquired approximately 103,070 acres of land in fee and approximately 827 acres of easements for Wheeler Reservoir. TVA sold or transferred approximately 26,332 acres of land from the original acquisition. Approximately 43,938 acres are inundated or flood prone. The remaining approximate 32,801 acres along with approximately 3,244 acres of flood prone areas supporting dewatering units (totaling approximately 36,045 acres) are the scope of this RLMP. The shoreline of Wheeler Reservoir is primarily composed of forested areas, with agricultural, residential, and recreational development. These uses are generally reflected in the land cover database for the parcels around the reservoir and the surrounding area which identifies land cover in these areas as primarily forested and farmed areas with a relatively large amount of developed land. Most of the developed land is classified as developed open space and low

intensity development located within the vicinity of the reservoir. Developed open space includes single family housing units on large lots, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes. Land cover classified as developed, low intensity includes areas with a mixture of constructed materials and vegetation. Impervious surfaces account for less than 50 percent of the total land cover.

According to TVA's 1998 SMI EIS, TVA owns approximately 1,016 miles of the 1,027 mile shoreline (99 percent) on Wheeler Reservoir (see Volume I, Table 3-1). Less than 1 percent (approximately 11 miles) of the shoreline miles on this reservoir is privately owned and is available for residential shoreline development (see Volume I, Table 3-2). In the SMI EIS, TVA estimates that approximately 54 percent of this privately owned shoreline is currently developed with residential subdivisions. TVA has holds flowage easement rights along portions of this private shoreline.

As identified in above, TVA originally purchased approximately 103,070 acres of land in fee and approximately 827 acres of easements for Wheeler Reservoir. Some of this land had been sold or transferred, however, any structures proposed within existing flowage easements or within the 500-year floodplain are subject to Section 26a of the TVA Act. Section 26a of the TVA Act requires that TVA's approval be obtained prior to the construction, operation, or maintenance of any dam, appurtenant works, or other obstruction affecting navigation, flood control, or public lands or reservations along or in the Tennessee River or any of its tributaries.

TVA owned land on the Wheeler Reservoir contains 14,381.3 acres of identified prime farmland and 8,938.8 acres of farmland of statewide importance (Table 2-1). Prime farmland has soil with the best combination of physical and chemical characteristics for producing food and fiber and is protected from conversion to industrial and nonagricultural uses by the United States Department of Agriculture (USDA). It is noted, however, that current soil mapping of prime farmland soils does not account for existing developed uses that may have previously disturbed and potentially converted prime farmland.

Table 2-1. Prime Farmland and Farmland of Statewide Importance on Wheeler Reservoir

Proposed Zone (Draft RLMP)	Prime Farmland (acres)	Farmland of Statewide Importance (acres)
Zone 2 - Project Operations	1,656.7	520.6
Zone 3 - Sensitive Resource Management	1,429.8	852.9
Zone 4 - Natural Resource Conservation	10,355.2	6,945.7
Zone 5 - Industrial	279.8	362.7
Zone 6 - Developed Recreation	640.3	243.7
Zone 7 - Shoreline Access	19.4	23.3
Total	14,381.3	8,948.8

Source: USDA Natural Resources Conservation Service 2016a

The majority (10,355.2 acres and 6,945.7 acres, respectively) of both prime farmland and farmland of statewide importance acreage occurs in areas that would be allocated to Zone 4, which would have little or no soil disturbance. Major soil disturbance could occur when TVA or other public facilities are constructed in lands designated for Zone 2, which would include 1,656.7 acres of prime farmland and 520.6 acres of farmland of statewide importance. However, most parcels that TVA proposes to allocate for Zone 2 already contain facilities that are not likely to require substantial modification. Only 640.3 acres of prime farmland and 243.7 acres of farmland of statewide importance would occur in Zone 6, where major soil disturbances could occur in specific locations, if recreation facilities are constructed. Conversely, large areas could remain unaffected for more dispersed recreation management. The least amount of prime farmland (19.4 acres) and farmland of statewide importance (23.3 acres) would occur in Zone 7.

For more information on land use and prime farmland resources and the potential impacts of the draft RLMP, see Volume I, Sections 3.2 and 3.3.

2.2.2 Recreation

TVA provides public lands for developed and dispersed recreational purposes through the reservoir lands planning process. Developed recreation include campgrounds, lodges, marinas, boat ramps, parks, swimming pools, beaches and day use facilities. Dispersed recreation activities include picnicking, primitive camping, hiking, bank fishing, hunting, kayaking and canoeing. In 2005, TVA developed a recreation strategic plan aimed at collaboratively enhancing recreational opportunities and addressing unmet recreational needs while managing the resources of the Tennessee River system (TVA 2005). This strategy laid out guiding principles for how to best design and develop recreation opportunities. During this reservoir

lands planning effort, tracts of TVA-managed lands around Wheeler Reservoir were categorized based upon a suitable use that is consistent with TVA policy and guidelines and applicable laws and regulations.

On Wheeler Reservoir, developed recreation provides modern facilities and amenities such as campgrounds, developed boat launches/ramps, parks and a myriad of day use facilities (picnic areas, swimming beaches, and fishing piers). These uses primarily occur on TVA lands allocated to Zone 6 (Developed Recreation) and Zone 2 (Project Operations). Under the draft RLMP (Alternative B), approximately 4 percent (1,312.1 acres) of TVA land would be allocated under the draft RLMP to Zone 6 and approximately 13 percent (4,813.5 acres) would be allocated to Zone 2.

Wheeler Reservoir is an outdoor recreation resource that attracts visitors from within and outside the region. Twenty-five parcels contain developed recreation areas on the Wheeler Reservoir including public parks, commercial recreation operations and semi-private clubs. Many of these recreation areas are located on properties that TVA transferred, leased or licensed for recreation development and use. Public parks developed on lands made available by TVA include Joe Wheeler State Park, Point Mallard Park and Round Island Creek Recreation Area.

In 1952, TVA transferred approximately 930 acres to the state of Alabama to assist in the establishment of Joe Wheeler State Park. The park currently spans across both banks of the Tennessee River and includes large portions of First Creek and Second Creek and property along Elk River. Joe Wheeler State Park continues to be a recreational attraction in northwest Alabama with amenities including a resort lodge, lakeside cottages, cabins, group lodge, camping, and a restaurant. The park is part of the Alabama Bass Trail and offers additional recreation activities such as a beach, boat rentals, golf course, marina, picnic area, trails, and transient boat slips.

Other public agencies maintain boat ramps (State of Alabama and Limestone County) at strategic locations around the reservoir. Commercial recreation operations include the Ditto Landing Marina and Jay Landing Marina.

Table 2-2 itemizes developed recreation area lands that are managed by TVA or another public agency for recreation purposes. Table 2-3 summarizes commercial, private, and semi-private developed recreation areas. Tables 2-2 and 2-3 do not itemize recreation areas on non-TVA

shorelands (Zone 1) because these areas are beyond the scope of this draft RLMP. Wheeler Reservoir parcel descriptions (see Chapter 4) further describe the management entity and management descriptions of recreation facilities on lands managed by either TVA or under contractual agreement.

Table 2-2. Developed Public Recreation Areas on TVA Lands on the Wheeler Reservoir

Recreation Area	Managing Entity	Parcel Location
Wheeler Dam Reservation	TVA	1
Campground	Lauderdale County	2
Joe Wheeler State Park	State of Alabama	3
Boat Ramp	TVA	9
Barnett's Landing	Alabama Department of Conservation and Natural Resources (ADCNR)	14
Boat Ramp	State of Alabama	22
Boat Ramp	State of Alabama	40
Boat Ramp	TVA	48
Boat Ramp	Limestone County	49
Boat Ramp	State of Alabama	55
Boat Ramp, Fishing Pier, Campground	Limestone County	63
Round Island Creek Recreation Area	Limestone County	74
Triana Boat Ramp	State of Alabama	94
Ditto Landing Marina	Huntsville –Madison County	99
Boat Ramp	State of Alabama	157
Point Mallard Park	City of Decatur	171
Trails	City of Decatur	176
Pines Park	City of Decatur	181
Boat Ramp	TVA	195
Joe Wheeler State Park	State of Alabama	206
Joe Wheeler State Park	State of Alabama	207

Table 2-3. Developed Commercial, Private and Semi-Private (camps) Recreation Areas on TVA Lands on the Wheeler Reservoir

Recreation Area	Managing Entity	Parcel Location
Boat Ramp	Girl Scouts of America	16
Riverwalk Yacht Club	Private	173
Jay Landings Marina	Commercial	178
Mallard Creek Campground	Commercial	188

Some of the TVA lands around Wheeler Reservoir provide excellent opportunities for dispersed or nature-based recreation activities. Dispersed recreation would occur on lands allocated to Zone 2 (Project Operations) and undeveloped areas allocated Zone 6 (Developed Recreation) as well as on land that would allocated to Zone 3 (Sensitive Resource Management) (and Zone 4 (Natural Resource Conservation). For example, on lands allocated to Zone 4 (Natural Resource Conservation) dispersed recreation activities include hunting, wildlife observation, fishing and camping on undeveloped sites.

For more information on recreation resources and the potential impacts of the draft RLMP, see Volume I, Section 3.4.

2.2.3 Terrestrial Ecology

Wheeler Reservoir lies within the Interior Plateau and Southwestern Appalachians ecoregions (U.S. Environmental Protection Agency 2013). The Interior Plateau ecoregion is a series of grassland plateaus and forested uplands that are generally lower in elevation than the Appalachian Mountains to the east but higher than the plains to the south. The Southwestern Appalachians ecoregion consists of open low mountains, with some areas containing steep slopes. Approximately three-fourths of the ecoregion is covered by forest, primarily mixed oak communities and shortleaf pines. Agricultural lands are found on lower slopes and valley floors. The variety of landforms, soils, climate, and geology across these ecoregions have allowed for an extremely diverse assemblage of animals, including migratory birds of conservation concern. Deciduous forests and mixed evergreen-deciduous forests provide wildlife habitat among the agriculture and more urbanized areas (USGS 2016). Table 2-4 contains a summary of the land cover within and in the vicinity of Wheeler Reservoir.

Table 2-4. Land Cover on TVA Owned Parcels and within the Vicinity of Wheeler Reservoir

Land Cover Type	TVA Property		Vicinity (5-Mile Radius)	
	Acres ¹	Percent Cover (%)	Acres ¹	Percent Cover (%)
Barren Land	116.3	0.3	1,061.5	0.1
Developed				
Developed, High Intensity	18.9	0.1	4,262.0	0.4
Developed, Medium Intensity	117.0	0.3	12,550.5	1.3
Developed, Low Intensity	174.0	0.5	31,425.3	3.3
Developed, Open Space	837.9	2.3	60,830.8	6.4
Forest				
Deciduous Forest	7,943.1	22.0	208,353.1	22.0
Evergreen Forest	3,242.4	9.0	37,259.0	3.9
Mixed Forest	1,500.2	4.2	33,896.5	3.6
Shrubland				
Shrub/Scrub	1,699.1	4.7	46,389.5	4.9
Herbaceous				
Grassland/Herbaceous	535.75	1.5	20,388.3	2.2
Hay/Pasture	1,801.2	5.0	236,327.5	24.9
Planted/Cultivated				
Cultivated Crops	2,526.36	7.0	126,665.6	13.4
Wetlands/Open Water				
Woody Wetlands	11,559.3	32.1	54,347.2	5.7
Emergent Herbaceous Wetlands	208.2	0.6	1,327.2	0.1
Open Water	3,765.42	10.4	73,055.1	7.7
Total	36,045.2	100	948,139.0	100

¹ Source: Homer et al. 2015

Oak-hickory deciduous forest is the most abundant forest type in the eastern U.S. and is prevalent in the Wheeler Reservoir region. Some mixed deciduous-evergreen and evergreen forests are also present in this region. Numerous bird species nest in deciduous forests. Typical species include wild turkey, whip-poor-will, ruby-throated hummingbird, red-eyed vireo, black-throated green warbler, black-and-white warbler, ovenbird, hooded warbler, and the scarlet tanager. Several additional migratory bird species of concern utilize these habitats in part or all of the region, including chuck-will's widow, Kentucky warbler, red-headed woodpecker, wood thrush and worm-eating warbler (U.S. Fish and Wildlife Service [USFWS] 2016a). Common mammal species of deciduous forests include white-tailed deer, red bat, eastern chipmunk,

eastern gray squirrel and southern flying squirrel, white-footed mouse, cotton deermouse, short-tailed shrew, gray fox, and bobcat.

Deciduous forests and mixed evergreen-deciduous forests account for 26 percent of the land cover within the Wheeler Reservoir parcels (see Table 2-4). Evergreen forests make up an additional nine percent of the land cover. Seeps, streams, and temporary ponds in deciduous forests provide habitat for numerous amphibians including American and Fowler's toads, green frog, northern cricket frog, and other frogs, and a range of salamanders including spotted and mole salamanders. Reptiles commonly found in deciduous forests especially near water include eastern fence lizard, ground skink, five-lined skink, eastern box turtle, eastern wormsneak, black racer, and ring-necked snake. The riparian zones along streams within deciduous forests provide nesting habitat for Acadian flycatchers, northern parula, and species of conservation concern such as bald eagle, least bittern, Louisiana waterthrush, and prothonotary warbler (USFWS2016a).

Evergreen and mixed evergreen-deciduous forests provide nesting for woodland birds including pine and yellow-throated warblers, and great crested flycatcher. Several additional migratory bird species of concern utilize these habitats including brown-headed nuthatch, chuck-will's widow, Kentucky warbler, fox sparrow, prairie warbler, and red crossbill (USFWS 2016a). Portions of this forest type have been damaged by southern pine beetles in recent years. Several stands of dead pines exist on TVA lands, and TVA has performed salvage harvests in some stands. Dead and dying pines provide foraging sites for woodpeckers and roosting sites for and silver-haired bats. Other animals that inhabit evergreen and evergreen-deciduous forests but are not restricted to them include white-tailed deer, wild turkey, eastern mole, eastern kingsnake, smooth earth snake, eastern fence lizard, six-lined racerunner, and a variety of salamanders, frogs, and toads, especially near wet areas.

Nonforested herbaceous community types in the Wheeler Reservoir region are dominated by pasturelands and hayfields. Herbaceous habitats, including grasslands, barrens, hayfields, and pastures account for approximately 7 percent of the landcover on the reservoir parcels (see Table 2-3). Early successional habitats provide habitat for a variety of bird species including eastern bluebird, eastern meadowlark, American crow, and red-tailed hawk. Several additional migratory bird species of concern utilize these habitats in this area including dickcissel, sedge wren, and short-eared owl (USFWS2016a). Amphibians and reptiles that use these habitats include spring peeper, chorus frog, and common garter snake.

Bird and mammal diversity greatly increases at edge habitats especially those between forested areas bordered by early successional habitats. Birds commonly found at these edge habitats include wild turkey, great crested flycatcher, white-eyed vireo, Carolina wren, blue-gray gnatcatcher, brown thrasher, common yellowthroat, yellow-breasted chat, indigo bunting, eastern towhee, field and song sparrow, and orchard oriole. Several additional migratory bird species of concern utilize these habitats in this area including Bachman's sparrow, blue-winged warbler, dickcissel, loggerhead shrike, and red-headed woodpecker (USFWS 2016a). Mammals typically inhabiting edges include eastern cottontail, eastern harvest mouse, red fox, coyote, and striped skunk.

The reservoir parcels provide wetlands, including wooded swamps and open water habitats and associated riparian zones that are used by a variety of wildlife. Approximately 43 percent of the TVA parcels contain wetland and open water habitats. Common species include great blue heron, green heron, belted kingfisher, common yellowthroat, and northern parula. Many additional migratory bird species of concern utilize these habitats in this area including American bittern, bald eagle, least bittern, Louisiana waterthrush, prothonotary warbler, rusty blackbird, sedge wren, and short-eared owl (USFWS 2016a). Two colonial nesting bird colonies/heronries have been observed on TVA parcels (TVA 2016b). Shallow embayments, especially those with emergent vegetation, provide foraging habitat for waterfowl. Common waterfowl include wood ducks, Canada geese, and mallards. Other waterfowl periodically present include American black duck, gadwall, green-winged teal, ring-necked duck, lesser scaup, common goldeneye, bufflehead, hooded merganser, and common merganser.

Shorebird use of the Wheeler Reservoir is limited to shallow embayments and exposed mud flats. Species such as spotted sandpiper that forage along the margins of reservoirs and killdeer that are not restricted to foraging on mud flats are commonly observed. Common amphibians found in the riparian zones include green frog, eastern narrowmouth toad, and Fowler's toad. Reptiles include northern water snake, common snapping turtle, and painted turtles. Common mammals include mink, muskrat, raccoon, and American beaver.

A search of the TVA Natural Heritage database in May 2016 indicated that 253 caves are located within 3 miles of Wheeler Reservoir. Seven caves are located on TVA parcels (TVA 2016b).

For information on terrestrial ecology and potential impacts of the draft RLMP, see Volume I, Section 3.5.

2.2.3.1 Invasive Nonnative Species

Many of the planned TVA parcels around Wheeler Reservoir contain a substantial amount of invasive nonnative species. Executive Order (EO) 13112 defines an invasive nonnative species as any species, including its seeds, eggs, spores, or other biological material capable of propagating that species, that is not native to that ecosystem; and whose introduction does or is likely to cause economic or environmental harm or harm to human health.

The Southeastern Exotic Plant Pest Council provides a list of nonnative invasive species that could pose potential threats to native ecosystems and human health for each southeastern state. In reviewing the Alabama exotic plant pest list (Alabama Invasive Plant Pest Council 2012), there were 19 species occurring in Alabama that pose a severe threat to native ecosystems observed in the Wheeler Reservoir region (Table 2-5).

Table 2-5. Invasive Non-native Species that Pose a Severe Threat Known to Occur in Alabama

Common Name	Scientific Name
Alligatorweed	<i>Alternanthera philoxeroides</i>
Aquarium water-moss	<i>Salvinia molesta</i>
Chinese privet	<i>Ligustrum sinense</i>
Chinese wisteria	<i>Wisteria sinensis</i>
Cogongrass	<i>Imperata cylindrica</i>
Common water hyacinth	<i>Eichhornia crassipes</i>
English ivy	<i>Hedera helix</i>
Eurasian water milfoil	<i>Myriophyllum spicatum</i>
Hydrilla	<i>Hydrilla verticillata</i>
Japanese climbing fern	<i>Lygodium japonicum</i>
Japanese honeysuckle	<i>Lonicera japonica</i>
Japanese stiltgrass	<i>Microstegium vimineum</i>
Kudzu	<i>Pueraria montana var. lobata</i>
Mimosa	<i>Albizia julibrissin</i>
Multiflora rose	<i>Rosa multiflora</i>
Parrot feather watermilfoil	<i>Myriophyllum aquaticum</i>
Sericia lespedeza	<i>Lespedeza cuneata</i>
Tallowtree	<i>Triadica sebifera</i>
Water lettuce	<i>Pistia stratiotes</i>

Source: Alabama Invasive Plant Pest Council 2012

All of these species have the potential to adversely impact the native plant communities because of their potential to spread rapidly and displace native vegetation. TVA considers all of these species a severe threat to local plant communities.

In addition to invasive or non-native plant species discussed above, there are several exotic, non-native, and/or pest insect species and plant diseases that are known to occur within the counties encompassing Wheeler Reservoir. These insects and diseases can have devastating impacts on native plant communities and human crops/fruits. The insects include: Japanese beetle, (*Popillia japonica*), brown marmorated stink bug (*Halyomorpha halys*), kudzu bug (*Megacopta cribraria*), southern pine beetle (*Dendroctonus frontalis*), and sugarcane aphid (*Melanaphis sacchari*) (EDDMapS 2016). These species all have the potential to pose problems to native vegetation, wildlife, crops, landscaping and gardens, and/or overall ecosystems due to the lack of natural predators or diseases to help control their populations giving them the ability to out-compete native species.

The following plant diseases are also known to occur in the counties containing Wheeler Reservoir: butternut canker (*Sirococcus clavigignenti-juglandacearum*), dogwood anthracnose (*Discula destructiva*), fusiform rust (*Cronartium quercuum* f.sp. *fusiforme*), and Heterobasidion root rots (*Heterobasidion* spp.). Many of these diseases target certain plant species or groups of species and can have serious impacts to local populations of those plants and trees.

There are several exotic, non-native, and/or pest terrestrial wildlife and other insect species that are known to occur within the region. These include: Asian tiger mosquito (*Aedes albopictus*), cat (feral) (*Felis catus*), and European starling (*Sturnus vulgaris*) (EDDMapS 2016). These species have the potential to pose problems to native wildlife and ecosystems due to their ability to out-compete native species and spread quickly. Some of these species can pose threats to human health and safety. Asian tiger mosquitoes are known to transmit various diseases to humans.

2.2.4 Aquatic Ecology

Aquatic ecological conditions in streams and reservoirs are monitored under a number of TVA programs. Aquatic ecological conditions in the larger reservoirs have been monitored using the Reservoir Vital Signs Monitoring Program (RVSM), which focuses on (1) physical and chemical characteristics of waters; (2) physical and chemical characteristics of sediments; (3) sampling the benthic macroinvertebrate community; and (4) fish assemblage sampling. The

RVSMP data include annual fish sampling on tributary reservoirs on a two-year rotation sampling cycle. Ratings are based primarily on fish community structure and function, using an analysis tool known as the Reservoir Fish Assemblage Index (RFAI) (McDonough and Hickman 1999).

Both RFAI and benthic community samples were taken in the forebay area (near the dam) and transition zone of Wheeler Reservoir where the reservoir transitions from a river-like environment to a lake-like one (Table 2-6).

Table 2-6. RFAI and Benthic Community Scores for Wheeler Reservoir (2011-2015)

Year	RFAI Scores		Benthic Community Scores	
	Forebay	Transition	Forebay	Transition
2011	Good	Fair	Poor	Fair
2013	Fair	Good	Fair	Good
2015	Good	Good	Poor	Good

Source: TVA 2016a

Fair ratings for the fish communities were largely due to the collection of fewer individual fish and fish species than expected, and often a greater proportion of those were tolerant of poorer water quality conditions (e.g. bluegill and largemouth bass). The last year sampled where the fish community rated good at all locations was 2005. The fish species collected during the RVSMP sampling efforts represent typical species found in large river and lentic habitats (Table 2-7).

Table 2-7. Fish Species in Wheeler Reservoir

Common Name	Scientific Name
Bigmouth buffalo	<i>Ictiobus cyprinellus</i>
Black buffalo	<i>Ictiobus niger</i>
Black crappie	<i>Pomoxis nigromaculatus</i>
Black redhorse	<i>Moxostoma duquesnei</i>
Blackstripe topminnow	<i>Fundulus notatus</i>
Blue catfish	<i>Ictalurus furcatus</i>
Blue sucker	<i>Cycleptus elongatus</i>
Bowfin	<i>Amia calva</i>
Brook silverside	<i>Labidesthes sicculus</i>
Bullhead minnow	<i>Pimephales vigilax</i>
Channel catfish	<i>Ictalurus punctatus</i>

Common Name	Scientific Name
Chestnut lamprey	<i>Ichthyomyzon castaneus</i>
Common carp	<i>Cyprinus carpio</i>
Dusky darter	<i>Percina sciera</i>
Flathead catfish	<i>Pylodictis olivaris</i>
Freshwater drum	<i>Aplodinotus grunniens</i>
Gizzard shad	<i>Dorosoma cepedianum</i>
Golden redhorse	<i>Moxostoma erythrurum</i>
Golden shiner	<i>Notemigonus crysoleucas</i>
Green sunfish	<i>Lepomis cyanellus</i>
Hybrid striped x white bass	<i>Hybrid morone (chrysops x sax)</i>
Largemouth bass	<i>Micropterus salmoides</i>
Largescale stoneroller	<i>Campostoma oligolepis</i>
Logperch	<i>Percina caprodes</i>
Longear sunfish	<i>Lepomis megalotis</i>
Longnose gar	<i>Lepisosteus osseus</i>
Mississippi silverside	<i>Menidia audens</i>
Northern hog sucker	<i>Hypentelium nigricans</i>
Orangespotted sunfish	<i>Lepomis humilis</i>
Quillback	<i>Carpionodes cyprinus</i>
Redbreast sunfish	<i>Lepomis auritus</i>
Redear sunfish	<i>Lepomis microlophus</i>
River carpsucker	<i>Carpionodes carpio</i>
River darter	<i>Percina shumardi</i>
River redhorse	<i>Moxostoma carinatum</i>
Sauger	<i>Stizostedion canadense</i>
Silver redhorse	<i>Moxostoma anisurum</i>
Skipjack herring	<i>Alosa chrysochloris</i>
Smallmouth bass	<i>Micropterus dolomieu</i>
Smallmouth buffalo	<i>Ictiobus bubalus</i>
Smallmouth redhorse	<i>Moxostoma breviceps</i>
Snubnose darter	<i>Etheostoma simoterum</i>
Spotfin shiner	<i>Cyprinella spiloptera</i>
Spotted bass	<i>Micropterus punctulatus</i>
Spotted gar	<i>Lepisosteus oculatus</i>
Spotted sucker	<i>Minytrema melanops</i>
Streamline chub	<i>Erimystax dissimilis</i>
Striped bass	<i>Morone saxatilis</i>
Striped shiner	<i>Luxilus chrysocephalus</i>
Stripetail darter	<i>Etheostoma kennicotti</i>
Threadfin shad	<i>Dorosoma petenense</i>
Warmouth	<i>Lepomis gulosus</i>
White bass	<i>Morone chrysops</i>

Common Name	Scientific Name
White crappie	<i>Pomoxis annularis</i>
Yellow bass	<i>Morone mississippiensis</i>
Yellow perch	<i>Perca flavescens</i>

Source: TVA 2016c

Bottom life rated poor to fair at the forebay, and fair to good at the transition monitoring location. The lower ratings were due to relatively sparse populations, predominantly composed of animals able to tolerate poor water quality (i.e., low dissolved oxygen).

2.2.4.1 Invasive Nonnative Aquatic Species

Although there are many exotic or introduced aquatic species within the region, there are a few species that are considered more detrimental due to their ability to have broad impacts to overall aquatic systems as well as direct impacts to humans. These include Asian carp, especially bighead carp (*Hypophthalmichthys nobilis*) and silver carp (*Hypophthalmichthys molitrix*) (EDDMapS 2016), and zebra mussels (*Dreissena polymorpha*).

Asian carp cause serious damage to the native fish populations in the lakes and rivers that they infest because they out-compete other fish for food and space. Carp are also thought to lower water quality, which can kill off sensitive organisms like native freshwater mussels. Asian carp have been known to dominate entire streams, effectively pushing out the native species. Asian carp are also known to pose danger to humans due to their habit of jumping out of the water and striking boaters and water skiers and damaging boats and equipment.

Zebra mussels are known for their biofouling capabilities by colonizing water supply pipes of hydroelectric and nuclear power plants, public water supply plants, and industrial facilities. They colonize pipes constricting flow, therefore reducing the intake in heat exchangers, condensers, firefighting equipment, and air conditioning and cooling systems. Navigational and recreational boating can be affected by increased drag due to attached mussels. Small mussels can get into engine cooling systems causing overheating and damage. Navigational buoys have been sunk under the weight of attached zebra mussels. Zebra mussels can have profound effects on the ecosystems they invade. They primarily consume phytoplankton, but other suspended material is filtered from the water column including bacteria, protozoans, zebra mussel veligers, other microzooplankton and silt (Benson et al. 2016).

For information on aquatic ecology and potential impacts of the draft RLMP, see Section 3.6, Volume I of the EIS.

2.2.5 Threatened and Endangered Species

TVA biologists and natural resource specialists used the TVA Natural Heritage database to assess the endangered and threatened species within and around Wheeler Reservoir. The TVA Natural Heritage database was created to ensure that environmental compliance activities are conducted in a consistent manner across the TVA Region and that these activities meet the requirements of National Environmental Policy Act (NEPA) and the Endangered Species Act. Federally listed and state-listed species identified within the six Wheeler Reservoir counties from the TVA Natural Heritage database are presented in Table 2-8. For the purpose of this document state-listed species includes those that are being tracked, in need of management, candidates, proposed for listing and of special concern. As noted below, there are nine listed plants species occurring on TVA parcels on Wheeler Reservoir. There are six terrestrial wildlife species known to occur on TVA parcels, however, suitable habitat is present for many of the other listed species. Twelve listed aquatic species are known to occur within TVA parcels and an additional 62 are known to occur in the reservoir adjacent to the parcels.

In order to determine which of the species listed in each county are known to occur in the general vicinity of the reservoir, a more refined database search was conducted. Database searches are based on the following criteria: (1) distance, (2) element occurrence rank values, and (3) species or type of element present. Accordingly, plants are assessed within a 5-mile radius, aquatic species within a 10-mile radius, and terrestrial species within a 3-mile radius.

Table 2-8. Federally and State-Listed Species in the Wheeler Reservoir Counties

Common Name	Scientific Name	Status	
		Federal	State
Amphibians			
Green salamander	<i>Aneides aeneus</i>	--	PROT (S3)
Hellbender	<i>Cryptobranchus alleganiensis</i>	PS	PROT (S2)
Tennessee cave salamander	<i>Gyrinophilus palleucus</i>	--	PROT
Arachnids			
A cave obligate pseudoscorpion	<i>Alabamocreagris pecki</i>	--	TRKD (S1S2)
A cave obligate spider	<i>Nesticus barri</i>	--	TRKD (S3)
Cave spring cave spider	<i>Nesticus jonesi</i>	--	TRKD (S1)

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Common Name	Scientific Name	Status	
		Federal	State
Birds			
Appalachian Bewick's wren	<i>Thryomanes bewickii altus</i>	--	PROT (S1)
Bald eagle	<i>Haliaeetus leucocephalus</i>	DM	PROT (S3)
Bewick's wren	<i>Thryomanes bewickii</i>	--	PROT (SH)
Cerulean warbler	<i>Setophaga cerulea</i>	--	NOST (S1)
Common barn-owl	<i>Tyto alba</i>	--	TRKD (S3)
Lark sparrow	<i>Chondestes grammacus</i>	--	TRKD (S3)
Osprey	<i>Pandion haliaetus</i>	--	TRKD (S5)
Peregrine falcon	<i>Falco peregrinus</i>	PS:LE	PROT (SH)
Red-cockaded woodpecker	<i>Picoides borealis</i>	LE	PROT (S2)
Warbling vireo	<i>Vireo gilvus</i>	--	TRKD (S1)
Crustaceans			
A crayfish	<i>Orconectes australis</i>	--	TRKD (S3)
A troglobitic crayfish	<i>Cambarus veitchorum</i>	--	TRKD (S1)
Alabama blind cave shrimp	<i>Palaemonias alabamae</i>	LE	SP (S1S2)
Shelta cave crayfish	<i>Orconectes sheltae</i>	--	POTL (S1)
Slenderclaw	<i>Cambarus cracens</i>	--	TRKD (S2)
Troglobitic crayfish	<i>Cambarus jonesi</i>	--	SPCO (S2)
Troglobitic crayfish	<i>Cambarus hamulatus</i>	--	SPCO (S3?)
Troglobitic crayfish	<i>Procambarus pecki</i>	--	TRKD (S2?)
Diplopods			
A cave obligate millipede	<i>Pseudotremia nyx</i>	--	TRKD (S1)
Fish			
Alabama cavefish	<i>Speoplatyrhinus poulsoni</i>	LE	PROT (S1)
Bankhead darter	<i>Percina sipsi</i>	--	TRKD (S1)
Bigeye chub	<i>Hybopsis amblops</i>	--	TRKD (S3)
Blotched chub	<i>Erimystax insignis</i>	--	TRKD (S2)
Bluebreast darter	<i>Etheostoma camurum</i>	--	TRKD (S1)
Blueside darter	<i>Etheostoma jessiae</i>	--	TRKD (S3)
Boulder darter	<i>Etheostoma wapiti</i>	LE	PROT (S1)
Chestnut lamprey	<i>Ichthyomyzon castaneus</i>	--	TRKD (S2)
Crown darter	<i>Etheostoma corona</i>	--	TRKD (S2)
Fantail darter	<i>Etheostoma flabellare</i>	--	TRKD (S3)
Flame chub	<i>Hemitremia flammea</i>	--	TRKD (S3)
Gilt darter	<i>Percina evides</i>	--	TRKD (S2)
Greenside darter	<i>Etheostoma blennioides</i>	--	TRKD (S3)
Lollipop darter	<i>Etheostoma neopterum</i>	--	PROT (S1)
Mountain brook lamprey	<i>Ichthyomyzon greeleyi</i>	--	TRKD (S1)
Mountain madtom	<i>Noturus eleutherus</i>	--	TRKD (S1)
Paddlefish	<i>Polyodon spathula</i>	--	PROT (S3)
Redline darter	<i>Etheostoma rufilineatum</i>	--	TRKD (S3)
River carsucker	<i>Carpionodes carpio</i>	--	TRKD (S2)
River darter	<i>Percina shumardi</i>	--	TRKD (S3)
Rosyface shiner	<i>Notropis micropteryx</i>	--	TRKD (S2)
Sawfin shiner	<i>Notropis sp. 4</i>	--	TRKD (S2)
Silver redhorse	<i>Moxostoma anisurum</i>	--	TRKD (S2)
Silver shiner	<i>Notropis photogenis</i>	--	TRKD (S1)

Common Name	Scientific Name	Status	
		Federal	State
Slackwater darter	<i>Etheostoma boschungii</i>	LT	PROT (S1)
Slender madtom	<i>Noturus exilis</i>	--	TRKD (S3)
Snail darter	<i>Percina tanasi</i>	LT	PROT (S1)
Snubnose darter	<i>Etheostoma simoterum</i>	--	TRKD (S3)
Southern cavefish	<i>Typhlichthys subterraneus</i>	--	PROT (S3)
Southern redbelly dace	<i>Chrosomus erythrogaster</i>	--	TRKD (S3)
Spotfin chub	<i>Erimonax monachus</i>	LT	PROT (SX)
Spring pygmy sunfish	<i>Elassoma alabamiae</i>	LT	PROT (S1)
Stargazing minnow	<i>Phenacobius uranops</i>	--	TRKD (S1)
Stonecat	<i>Noturus flavus</i>	--	TRKD (S1)
Stripetail darter	<i>Etheostoma kennicotti</i>	--	TRKD (S3)
Tuscumbia darter	<i>Etheostoma tuscumbia</i>	--	PROT (S2)
Tuskaloosa darter	<i>Etheostoma douglasi</i>	--	TRKD (S2)
Gastropods			
Anthony's river snail	<i>Athearnia anthonyi</i>	LE	PROT (S1)
Armored marstonia	<i>Marstonia pachyta</i>	LE	PROT (S1)
Armored rocksnail	<i>Lithasia armigera</i>	--	SPCO (S3S4)
Atlas pebblesnail	<i>Somatogyrus humerosus</i>	--	HIST (SH)
Corpulent hornsnail	<i>Pleurocera corpulenta</i>	--	TRKD (S1)
Golden pebblesnail	<i>Somatogyrus aureus</i>	--	HIST (SH)
Knob mudalia	<i>Leptoxis minor</i>	--	EXTI (SX)
Muddy rocksnail	<i>Lithasia salebrosa</i>	--	TRKD (S1)
Noble hornsnail	<i>Pleurocera nobilis</i>	--	TRKD (S2)
Ornate rocksnail	<i>Lithasia geniculata</i>	--	SPCO (S1)
Ovate pebblesnail	<i>Somatogyrus excavatus</i>	--	HIST (SH)
Rolling pebblesnail	<i>Somatogyrus strengi</i>	--	T (SH)
Round-rib elimia	<i>Elimia nassula</i>	--	TRKD (S1)
Rugged hornsnail	<i>Pleurocera alveare</i>	--	TRKD (S2)
Shortspire hornsnail	<i>Pleurocera curta</i>	--	TRKD (S1S2)
Skirted hornsnail	<i>Pleurocera pyrenella</i>	--	TRKD (S2)
Slender campeloma	<i>Campeloma decampi</i>	LE	PROT (S1)
Slowwater elimia	<i>Elimia interveniens</i>	--	TRKD (S2)
Spiral hornsnail	<i>Pleurocera brumbyi</i>	--	TRKD (S2)
Telescope hornsnail	<i>Pleurocera walkeri</i>	--	TRKD (S3)
Varicose rocksnail	<i>Lithasia verrucosa</i>	--	TRKD (S3)
Warty rocksnail	<i>Lithasia lima</i>	--	HIST (SH)
Insects			
A beetle	<i>Batrisodes specus</i>	--	TRKD (S2)
A beetle	<i>Ptomaphagus laticornis</i>	--	TRKD (S1)
A beetle	<i>Batrisymmodes spelaeus</i>	--	TRKD (S3)
A beetle	<i>Batrisodes valentinei</i>	--	TRKD (S2)
A beetle	<i>Ptomaphagus valentinei</i>	--	TRKD (S2)
A beetle	<i>Lesteva pallipes</i>	--	TRKD (S1)
A beetle	<i>Catops gratiosa</i>	--	PROT (S2)
A beetle	<i>Batrisodes jocuvestus</i>	--	TRKD (S1)
A beetle	<i>Batrisodes subterraneus</i>	--	TRKD (S1)
A caddisfly	<i>Triaenodes abus</i>	--	RARE (S1)

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Common Name	Scientific Name	Status	
		Federal	State
A caddisfly	<i>Hydropsyche simulans</i>	--	RARE (S1)
A caddisfly	<i>Hydropsyche cuanis</i>	--	TRKD (S1)
A caddisfly	<i>Rhyacophila minor</i>	--	TRKD (S1)
A caddisfly	<i>Rhyacophila fenestra</i>	--	RARE (S1)
A caddisfly	<i>Hydropsyche rotosa</i>	--	RARE (S1)
A caddisfly	<i>Micrasema scotti</i>	--	TRKD (S1)
A caddisfly	<i>Chimarra socia</i>	--	TRKD (S1)
A caddisfly	<i>Cheumatopsyche kinlockensis</i>	--	RARE (S1)
A caddisfly	<i>Polycentropus nascotius</i>	--	TRKD (S1)
A caddisfly	<i>Rhyacophila carolae</i>	--	RARE (S1)
A caddisfly	<i>Psilotreta labida</i>	--	TRKD (S1)
A caddisfly	<i>Dolophilodes major</i>	--	TRKD (S1)
A cave obligate beetle	<i>Pseudanophthalmus profundus</i>	--	TRKD (S2)
A cave obligate beetle	<i>Pseudanophthalmus alladini</i>	--	TRKD (S2)
A cave obligate beetle	<i>Pseudanophthalmus meridionalis</i>	--	TRKD (S2)
A cave obligate beetle	<i>Pseudanophthalmus fluviatilis</i>	--	TRKD (S2)
A cave obligate beetle	<i>Speleochus synstycticus</i>	--	TRKD (S1)
A cricket	<i>Ceuthophilus stygius</i>	--	TRKD (S2)
A glossosomatid caddisfly	<i>Agapetus hessi</i>	--	TRKD (S1)
A ground beetle	<i>Pseudanophthalmus lodingi</i>	--	TRKD (S2)
A ground beetle	<i>Pseudanophthalmus distinguens</i>	--	TRKD (S1)
A ground beetle	<i>Rhadine caudata</i>	--	TRKD (S2)
A hexapod	<i>Litocampa henroti</i>	--	TRKD (S1)
A springtail	<i>Pseudosinella hirsuta</i>	--	TRKD (S3)
A glossosomatid caddisfly	<i>Agapetus gelbae</i>	--	RARE (S1)
Mammals			
Allegheny woodrat	<i>Neotoma magister</i>	--	TRKD (S3)
Appalachian cottontail	<i>Sylvilagus obscurus</i>	--	TRKD (S1)
Gray bat	<i>Myotis grisescens</i>	LE	PROT (S2)
Indiana bat	<i>Myotis sodalis</i>	LE	PROT (S2)
Little Brown bat	<i>Myotis lucifugus</i>	--	TRKD (S3)
Long-tailed weasel	<i>Mustela frenata</i>	--	PROT (S3)
Meadow jumping mouse	<i>Zapus hudsonius</i>	PS	PROT (S3)
Northern long-eared bat	<i>Myotis septentrionalis</i>	LT	PROT (S2)
Prairie Vole	<i>Microtus ochrogaster</i>	--	TRKD (S2)
Rafinesque's Big-eared bat	<i>Corynorhinus rafinesquii</i>	--	PROT (S2)
Southeastern bat	<i>Myotis austroriparius</i>	--	PROT (S2)
Tricolored bat	<i>Perimyotis subflavus</i>	--	NOST (S3)
Mussels			
Acornshell	<i>Epioblasma haysiana</i>	--	EXTI (SH)
Angled riffleshell	<i>Epioblasma biemarginata</i>	--	EXTI (SX)
Birdwing pearl mussel	<i>Lemiox rimosus</i>	LE	PROT (SX)
Black sandshell	<i>Ligumia recta</i>	--	TRKD (S2)
Butterfly	<i>Ellipsaria lineolata</i>	--	TRKD (S3)
Clubshell	<i>Pleurobema clava</i>	LE	PROT (SX)
Cracking pearl mussel	<i>Hemistena lata</i>	LE	PROT (SX)
Creeper	<i>Strophitus undulatus</i>	--	TRKD (S1)

Common Name	Scientific Name	Status	
		Federal	State
Cumberland Bean	<i>Villosa trabalis</i>	LE	PROT (SX)
Cumberland leafshell	<i>Epioblasma stewardsonii</i>	--	EXTI (SX)
Cumberland moccasinshell	<i>Medionidus conradicus</i>	--	PROT (S1)
Cumberland monkeyface	<i>Quadrula intermedia</i>	LE	PROT (S1)
Cumberlandian combshell	<i>Epioblasma brevidens</i>	LE	PROT (S1)
Deertoe	<i>Truncilla truncata</i>	--	TRKD (S1)
Dromedary pearlymussel	<i>Dromus dromas</i>	LE	PROT (S1)
Elktoe	<i>Alasmidonta marginata</i>	--	EXTI (SX)
Fanshell	<i>Cyprogenia stegaria</i>	LE	PROT (S1)
Fine-rayed pigtoe	<i>Fusconaia cuneolus</i>	LE	PROT (S1)
Fluted kidneyshell	<i>Ptychobranthus subtentum</i>	LE	PROT (SX)
Hickorynut	<i>Obovaria olivaria</i>	--	EXTI (SX)
Kidneyshell	<i>Ptychobranthus fasciolaris</i>	--	TRKD (S1)
Leafshell	<i>Epioblasma flexuosa</i>	--	EXTI (SX)
Lilliput	<i>Toxolasma parvum</i>	--	TRKD (S3)
Long-solid	<i>Fusconaia subrotunda</i>	--	TRKD (S1)
Monkeyface	<i>Quadrula metanevra</i>	--	TRKD (S3)
Mucket	<i>Actinonaias ligamentina</i>	--	TRKD (S2)
Ohio pigtoe	<i>Pleurobema cordatum</i>	--	TRKD (S2)
Orange-foot pimpleback	<i>Plethobasus cooperianus</i>	LE	PROT (S1)
Orange-nacre mucket	<i>Lampsilis perovalis</i>	LT	PROT (S?)
Oyster mussel	<i>Epioblasma capsaeformis</i>	LE	PROT (SX)
Painted creekshell	<i>Villosa taeniata</i>	--	TRKD (S3)
Pale Lilliput	<i>Toxolasma cylindrellus</i>	LE	PROT (S1)
Pheasantshell	<i>Actinonaias pectorosa</i>	--	TRKD (S1)
Pink heelsplitter	<i>Potamilus alatus</i>	--	TRKD (S2)
Pink mucket	<i>Lampsilis abrupta</i>	LE	PROT (S1)
Pink papershell	<i>Potamilus ohioensis</i>	--	TRKD (S3)
Purple catspaw	<i>Epioblasma obliquata</i>	LE	PROT (SX)
Purple lilliput	<i>Toxolasma lividus</i>	--	TRKD (S2)
Pyramid pigtoe	<i>Pleurobema rubrum</i>	--	PROT (S2)
Rabbitsfoot	<i>Quadrula cylindrica</i>	LT	PROT (S1)
Rainbow	<i>Villosa iris</i>	--	TRKD (S3)
Rayed bean	<i>Villosa fabalis</i>	LE	PROT (SX)
Ring pink	<i>Obovaria retusa</i>	LE	PROT (S1)
Rock pocketbook	<i>Arcidens confragosus</i>	--	PROT (S3)
Rough pigtoe	<i>Pleurobema plenum</i>	LE	PROT (S1)
Round combshell	<i>Epioblasma personata</i>	--	EXTI (SX)
Round hickorynut	<i>Obovaria subrotunda</i>	--	TRKD (S2)
Round pigtoe	<i>Pleurobema sintoxia</i>	--	TRKD (S1)
Scaleshell	<i>Leptodea leptodon</i>	LE	PROT (SX)
Sheepnose	<i>Plethobasus cyphus</i>	LE	PROT (S1)
Shiny pigtoe pearlymussel	<i>Fusconaia cor</i>	LE	PROT (S1)
Slabside pearlymussel	<i>Pleuronaia dolabelloides</i>	LE	PROT (S1)
Slippershell mussel	<i>Alasmidonta viridis</i>		PROT (S1)
Smooth rabbitsfoot	<i>Quadrula cylindrica</i>	LT	(PROT (S1))
Snuffbox	<i>Epioblasma triquetra</i>	LE	TRKD (S1)

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Common Name	Scientific Name	Status	
		Federal	State
Spectaclecase	<i>Cumberlandia monodonta</i>	LE	PROT (S1)
Spike	<i>Elliptio dilatata</i>	--	TRKD (S1)
Sugarspoon	<i>Epioblasma arcaeiformis</i>	--	EXTI (SX)
Tan riffleshell	<i>Epioblasma florentina walkeri</i>	LE	PROT (SX)
Tennessee clubshell	<i>Pleurobema oviforme</i>	--	TRKD (S1)
Tennessee pigtoe	<i>Fusconaia barnesiana</i>	--	TRKD (S1)
Tennessee riffleshell	<i>Epioblasma propinqua</i>	--	EXTI (SX)
Tuberculed blossom pearlymussel	<i>Epioblasma torulosa</i>	LE	PROT (SX)
Turgid blossom pearlymussel	<i>Epioblasma turgidula</i>	LE	EXTI (SX)
Wartyback	<i>Quadrula nodulata</i>	--	TRKD (S1S2)
Wavy-rayed lampmussel	<i>Lampsilis fasciola</i>	--	TRKD (S1S2)
White heelsplitter	<i>Lasmigona complanata</i>	--	TRKD (S2S3)
White wartyback	<i>Plethobasus cicatricosus</i>	LE	PROT (S1)
Yellow-blossom pearlymussel	<i>Epioblasma florentina</i>	LE	PROT (SX)
Reptiles			
Alligator snapping turtle	<i>Macrochelys temminckii</i>	--	PROT (S3)
Coal skink	<i>Plestiodon anthracinus</i>	--	TRKD (S3)
Red milk snake	<i>Lampropeltis triangulum sypila</i>	--	TRKD (S2)
Plants			
Alabama glade-cress	<i>Leavenworthia alabamica</i>	--	SLNS (S2)
Alabama larkspur	<i>Delphinium alabamicum</i>	--	SLNS (S2)
Alabama snow-wreath	<i>Neviusia alabamensis</i>	--	SLNS (S2)
Allegheny blackberry	<i>Rubus allegheniensis</i>	--	SLNS (S1)
Allegheny-spurge	<i>Pachysandra procumbens</i>	--	SLNS (S2S3)
American beakgrain	<i>Diarrhena americana</i>	--	SLNS (S2)
American columbo	<i>Frasera caroliniensis</i>	--	SLNS (S2)
American hart's-tongue fern	<i>Asplenium scolopendrium</i> var. <i>americanum</i>	LT	SLNS (S1)
American smoke-tree	<i>Cotinus obovatus</i>	--	SLNS (S2)
Appalachian bugbane	<i>Actaea rubifolia</i>	--	SLNS (SH)
Arrow-wood	<i>Viburnum bracteatum</i>	--	SLNS (S1)
Bastard toad-flax	<i>Comandra umbellata</i>	--	SLNS (S1)
Blue-eyed Mary	<i>Collinsia verna</i>	--	SLNS (S1)
Branching Whitlow-wort	<i>Draba ramosissima</i>	--	SLNS (S1)
Butler's quillwort	<i>Isoetes butleri</i>	--	SLNS (S2)
Butternut	<i>Juglans cinerea</i>	--	SLNS (S1)
Canada lily	<i>Lilium canadense</i>	--	SLNS (S2)
Canadian milkvetch	<i>Astragalus canadensis</i>	--	SLNS (S1)
Carolina spring-beauty	<i>Claytonia caroliniana</i>	--	SLNS (S1)
Church's wildrye	<i>Elymus churchii</i>	--	SLNS (S1)
Climbing bittersweet	<i>Celastrus scandens</i>	--	SLNS (S2)
Clustered poppy-mallow	<i>Callirhoe alcaeoides</i>	--	SLNS (S2)
Common horsetail	<i>Equisetum arvense</i>	--	SLNS (S2)
Creamflower tick-trefoil	<i>Desmodium ochroleucum</i>	--	SLNS (S1S2)
Cumberland rosinweed	<i>Silphium brachiatum</i>	--	SLNS (S2)
Duck river bladderpod	<i>Paysonia densipila</i>	--	SLNS (S1)
Dutchman's breeches	<i>Dicentra cucullaria</i>	--	SLNS (S2)

Common Name	Scientific Name	Status	
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Dwarf filmy-fern	<i>Trichomanes petersii</i>	--	SLNS (S2)
Eggleston's violet	<i>Viola egglestonii</i>	--	SLNS (S1)
False gromwell	<i>Onosmodium molle</i> ssp. <i>subsetosum</i>	--	SLNS (S1)
False helleborne	<i>Melanthium parviflorum</i>	--	SLNS (S1S2)
False rue-anemone	<i>Enemion biternatum</i>	--	SLNS (S2)
Featherfoil	<i>Hottonia inflata</i>	--	SLNS (S2)
Fleshy-fruit glade-cress	<i>Leavenworthia crassa</i>	LE	SLNS (S2)
Gattinger prairie-clover	<i>Dalea gattingeri</i>	--	SLNS (S3)
Georgia rock-cress	<i>Arabis georgiana</i>	LT	SLNS (S1)
Goldenseal	<i>Hydrastis canadensis</i>	--	SLNS (S2)
Gorge filmy fern	<i>Hymenophyllum tayloriae</i>	--	SLNS (S1)
Granite gooseberry	<i>Ribes curvatum</i>	--	SLNS (S2)
Great yellow wood-sorrel	<i>Oxalis grandis</i>	--	SLNS (S1)
Green pitcher plant	<i>Sarracenia oreophila</i>	LE	SLNS (S2)
Harper's dodder	<i>Cuscuta harperi</i>	--	SLNS (S2)
Harper's grooved-yellow flax	<i>Linum sulcatum</i> var. <i>harperi</i>	--	SLNS (S1)
Harper's Umbrella-plant	<i>Eriogonum longifolium</i> var. <i>harperi</i>	--	SLNS (S1)
Horse-gentian	<i>Triosteum angustifolium</i>	--	SLNS (S1)
Horsemint	<i>Monarda clinopodia</i>	--	SLNS (S2)
Interior least trillium	<i>Trillium pusillum</i> var. 1	--	SLNS (S2)
Lake-cress	<i>Armoracia lacustris</i>	--	SLNS (S1)
Large whorled pogonia	<i>Isotria verticillata</i>	--	SLNS (S2)
Leafy prairie-clover	<i>Dalea foliosa</i>	LE	SLNS (S1)
Limestone Adder's-tongue	<i>Ophioglossum engelmannii</i>	--	SLNS (S2S3)
Limestone fame-flower	<i>Phemeranthus calcaricus</i>	--	SLNS (S2)
Little mountain meadow-rue	<i>Thalictrum mirabile</i>	--	SLNS (S2)
Little river canyon onion	<i>Allium speculae</i>	--	SLNS (S2)
Lyre-leaf bladderpod	<i>Lesquerella lyrata</i>	LT	SLNS (S1)
Michaux leavenworthia	<i>Leavenworthia uniflora</i>	--	SLNS (S2)
Mohr's rosin-weed	<i>Silphium mohrii</i>	--	SLNS (S1)
Morefield's leather-flower	<i>Clematis morefieldii</i>	LE	SLNS (S2)
Moss	<i>Trichostomum crispulum</i>	--	SLNS (S2)
Mountain camellia	<i>Stewartia ovata</i>	--	SLNS (S2S3)
Muhly grass	<i>Muhlenbergia sobolifera</i>	--	SLNS (S1)
Nestronia	<i>Nestronia umbellula</i>	--	SLNS (S2)
Nodding trillium	<i>Trillium flexipes</i>	--	SLNS (S2S3)
Nuttall's rayless golden-rod	<i>Bigelovia nuttallii</i>	--	SLNS (S3)
Ovate catchfly	<i>Silene ovata</i>	--	SLNS (S2)
Pasture glade-cress	<i>Leavenworthia exigua</i> var. <i>lutea</i>	--	SLNS (S1)
Pink turtlehead	<i>Chelone lyonii</i>	--	SLNS (S1)
Prairie trillium	<i>Trillium recurvatum</i>	--	SLNS (S2)
Prairie-dock	<i>Silphium pinnatifidum</i>	--	SLNS (S1)
Price's potato-bean	<i>Apios priceana</i>	LT	SLNS (S2)
Puttyroot	<i>Aplectrum hyemale</i>	--	SLNS (S2)
Ragged fringe orchid	<i>Platanthera lacera</i>	--	SLNS (S2)
Rock clubmoss	<i>Huperzia porophila</i>	--	SLNS (S1)
Roundleaf catchfly	<i>Silene rotundifolia</i>	--	SLNS (S1S2)

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Common Name	Scientific Name	Status	
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Roundleaf sundew	<i>Drosera rotundifolia</i>	--	SLNS (S1)
Scarlet Indian-paintbrush	<i>Castilleja coccinea</i>	--	SLNS (S1)
Sedge	<i>Carex purpurifera</i>	--	SLNS (S2)
Sessile trillium	<i>Trillium sessile</i>	--	SLNS (S2)
Shining clubmoss	<i>Huperzia lucidula</i>	--	SLNS (S2)
Small white leek	<i>Allium tricoccum</i>	--	SLNS (S1)
Smooth blephilia	<i>Blephilia subnuda</i>	--	SLNS (S1S2)
Soft false gromwell	<i>Onosmodium molle</i> ssp. <i>molle</i>	--	SLNS (S2)
Southern meadow-rue	<i>Thalictrum debile</i>	--	SLNS (S2)
Southern red trillium	<i>Trillium sulcatum</i>	--	SLNS (S1)
St. John's-wort	<i>Hypericum nudiflorum</i>	--	SLNS (S2)
Sunnybell	<i>Schoenolirion croceum</i>	--	SLNS (S2)
Sweet pinesap	<i>Monotropis odorata</i> var. <i>odorata</i>	--	SLNS (S1)
Tennessee bladderfern	<i>Cystopteris tennesseensis</i>	--	SLNS (S2)
Tennessee milk-vetch	<i>Astragalus tennesseensis</i>	--	SLNS (S1S2)
Tuberous scurfpea	<i>Pedimelum subacaule</i>	--	SLNS (S2)
Twinleaf	<i>Jeffersonia diphylla</i>	--	SLNS (S2)
Two-leaf bishop's-cap	<i>Mitella diphylla</i>	--	SLNS (S1)
Valerian	<i>Valeriana pauciflora</i>	--	SLNS (S1)
Wall-rue spleenwort	<i>Asplenium ruta-muraria</i>	--	SLNS (S1)
Waterweed	<i>Elodea canadensis</i>	--	SLNS (S1)
Wedge-leaf whitlow-grass	<i>Draba cuneifolia</i>	--	SLNS (S1)
Wherry's phlox	<i>Phlox pulchra</i>	--	SLNS (S2)
Witch-alder	<i>Fothergilla major</i>	--	SLNS (S2)
Yellow giant-hyssop	<i>Agastache nepetoides</i>	--	SLNS (S1)
Yellow water-crowfoot	<i>Ranunculus flabellaris</i>	--	SLNS (S1)

*Federal status abbreviations: DM = Recovered, delisted, and being monitored; LE = Listed endangered, LT = Listed threatened; PS = Partial status

State status abbreviations: E = Endangered; EXTI = Extirpated from state or region; HIST = Historically known from the area, may be extirpated or extinct; NOST = No status; POTL = Potential Candidate for State Listing; PROT = Protected; RARE = Listed Rare; SLNS = Listed by the state of Alabama, but not assigned a status; SP = State Protected, SPCO= Special concern; T = Threatened; TRKD = Tracked by state natural heritage program (no legal status)

State rank abbreviations:

S1 = Critically Imperiled - Critically imperiled in Alabama because of extreme rarity (5 or fewer occurrences of very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extirpation from Alabama; S2 = Imperiled - Imperiled in state because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extirpation from Alabama; S3 = Vulnerable - Rare or uncommon in Alabama (on the order of 21 to 100 occurrences); S4 = Apparently Secure - Apparently secure in Alabama, with many occurrences; S5 = Secure - Demonstrably secure in Alabama; common, widespread, and abundant in the state; SH = Historical (Possibly Extirpated) – Species or community occurred historically in Alabama, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years. A species or community could become SH without such a 20-40 year delay if the only known occurrences in a nation or state/province were destroyed or if it had been extensively and unsuccessfully looked for. The SH rank is reserved for species or communities for which some effort has been made to relocate occurrences, rather than simply using this status for all elements not known from verified extant occurrences; SX = Presumed Extirpated – Species or community is believed to be extirpated from Alabama. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered. S#S# = Denotes a range of ranks because the exact rarity of the element is uncertain (e.g., S1S2); S? = Unranked at this time or rank uncertain; B = Breeding - Conservation status refers to the breeding population of the species in the state. Regularly occurring, usually migratory and may be present only during the breeding season.

Source TVA 2016a

2.2.5.1 Plants

Reviews of the TVA Natural Heritage database indicate that there are four species federally listed as endangered and four species federally listed as threatened within the surrounding counties. Of these, five species, American hart's-tongue fern, fleshy-fruit glade-creep, leafy prairie-clover, Morefield's leather-flower, and price's potato-bean, are known to occur within 5 miles of Wheeler Reservoir. However none are known to occur on any TVA parcels.

There are 100 state-listed plant species within the Wheeler Reservoir counties. Of these plant species, 47 exist within 5 miles of the reservoir and nine have been recorded on TVA parcels (see Table 2-8). All records on TVA parcels are on parcels that would be allocated to Zone 3 (Sensitive Resource Management) and Zone 4 (Natural Resource Conservation). These species and their habitat requirements are discussed in Table 2-9.

The Alabama state champion buttonbush is located within Point Mallard Park, which is a TVA owned parcel that would be allocated to Zone 6 (Developed Recreation).

Table 2-9. Habitat Requirements for Plant Species of Conservation Concern within 5 Miles of Wheeler Reservoir

Common Name	Habitat Requirements	Suitable Habitat Present
Alabama glade-creep	Limestone outcrops, cedar glades, old fields, pastures, rocky knolls, roadsides ⁵	Somewhat likely
Alabama snow-wreath	Upland Woods ²	Likely
American beakgrain	Woodlands ⁴	Yes Recorded in a TVA Zone 3 parcel
American columbo	Deciduous forests, near margins and clearings ¹	Likely
American ginseng	Rich moist hardwood dominated woods under a closed canopy ¹	Likely
American hart's-tongue fern	Sinks ²	Likely
American smoke-tree	Dry, circumneutral soil ²	Likely
Branching whitlow-wort	Calcareous bluffs ²	Likely
Butler's quillwort	Limestone outcrops, calcareous glades ³	Likely
Canada lily	Wet areas including meadows, rich woods, stream sides, bogs, marshes, swamps, roadsides and railroads ⁵	Likely
Canadian milkvetch	Moist-dry prairies, stream banks, open woods ³	Likely
Church's wildrye	Dry rocky soil, open woods, ridges, bluffs, river banks ¹	Yes Recorded on a TVA Zone 3 parcel
Climbing bittersweet	Woodlands, bluffs, stream banks, rocky hillsides, thickets, fence rows, roadsides ³	Likely
Clustered poppy-mallow	Plains, prairies, roadsides, waste places ⁵	Somewhat likely
Creamflower tick-trefoil	Sandy Dry Woods ²	Somewhat likely
Cumberland rosinweed	Rich Rocky Woods ²	Yes

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Common Name	Habitat Requirements	Suitable Habitat Present
		Recorded on a TVA Zone 3 parcel
Duck River bladderpod	Cultivated fields ²	Limited habitat
False gromwell	Limestone woods ²	Likely
Featherfoil	Wet sloughs and ditches. Aquatic ²	Likely
Fleshy-fruit gladecress	Limestone cedar glades, pastures/fields, roadsides. Near limestone glades ⁵	Somewhat likely
Gattinger prairie-clover	Limestone glades ¹	Somewhat likely
Great yellow wood-sorrel	Woods	Yes Recorded on a TVA Zone 4 parcel
Harper's umbrella-plant	Rocky bluff ²	Likely
Horse-gentian	Woodlands, bluffs, oak savannas, limestone glades ⁴	Likely
Interior least trillium	Alluvial/moist ravines and dry ridges ²	Likely
Lake-cress	Open water of natural lakes, sloughs, ponds, canals, ditches, and swamps ¹	Likely
Large whorled pogonia	Acidic soils in dry/mesic forests, seeps, and sphagnum bogs. ⁵	Likely
Leafy prairie-clover	Rocky washes in glades ²	Somewhat likely
Limestone adder's-tongue	Over limestone in fields, pastures and cedar glades	Yes Recorded on a TVA Zone 3 parcel
Michaux leavenworthia	Rocky ledges, cedar glades, pastures, roadsides, old fields, seeps ⁵	Somewhat likely
Morefield's leather-flower	Seeps/springs In rocky limestone woods ²	Somewhat likely
Moss	Cliffs ⁵	Likely
Muhly grass	Rocky woods, shaded ledges ⁶	Yes Recorded on a TVA Zone 4 parcel
Nodding trillium	Rich woods, floodplain forests ⁵	Likely
Ovate catchfly	Open oak woods ²	Likely
Pink turtlehead	Rich coves, spruce-fir forests, open stream banks ³	Somewhat likely
Price's potato-bean	Opening in rich woods ²	Likely
Ragged fringe orchid	Sphagnum bogs, alluvial and swamp forests, stream banks, riparian meadows, sandflats, seeps, prairies, roadsides, ditches, fields, borrow pits ⁵	Likely
Scarlet Indian-paintbrush	Prairies, meadows, roadsides ³	Somewhat likely, limited habitat
Sessile trillium	Woodlands, limestone soils, floodplains, riverbanks, clay alluvium, dry limestone woods ⁵	Likely
Smooth blephilia	Rocky limestone forests ¹	Yes Recorded on a TVA Zone 3 parcel
Tennessee milk-vetch	Glades ²	Somewhat likely
Twinleaf	Rich moist woods, semi open rock slopes and outcrops ⁵	Yes Recorded on a TVA Zone 4 parcel
Two-leaf bishop's-cap	Rich woods, ravine slopes ⁵	Likely
Waterweed	Aquatic, mostly in calcareous lakes and rivers ⁵	Likely

Common Name	Habitat Requirements	Suitable Habitat Present
Wedge-leaf whitlow-grass	Barrens and glades ²	Somewhat likely
Yellow water-crowfoot	Ponds and marshes ²	Yes Recorded on a TVA Zone 4 parcel

¹ Source: NatureServe 2016

² Source: TDEC 2014

³ Source: Lady Bird Johnson Wildflower Center 2013

⁴ Source: Hilty 2015

⁵ Source: Flora of North America 1993

2.2.5.2 Terrestrial Wildlife

Reviews of the TVA Natural Heritage database indicate that there are six terrestrial species federally listed as threatened or endangered and 54 state-listed species in the counties surrounding Wheeler Reservoir (see Table 2-8). Within 3 miles of the reservoir, there are records of four federally listed species and an additional 24 state-listed species (see Table 2-10). Six of these species have been recorded on a TVA parcel. These species and their habitat requirements are described in Table 2-10.

Table 2-10. Habitat Requirements for Terrestrial Wildlife Species of Conservation Concern within 3 Miles of Wheeler Reservoir

Common Name	Habitat Requirements	Suitable Habitat Present
Amphibians		
Green salamander	Damp crevices in shaded rock outcrops, beneath loose bark of dead trees, sometimes under logs ¹	Likely
Hellbender	Creeks and rivers ¹	Likely
Tennessee cave salamander	Aquatic, cave obligate ¹	Likely
Birds		
Bald eagle	Forested areas near open water ¹	Yes Recorded on a TVA Zone 2 parcel
Common barn-owl	Nesting: cliffs, hollow trees, buildings, open forests. Foraging: dense grass fields including marshes ¹	Yes Recorded on a TVA Zone 2 parcel
Peregrine falcon	Nesting: Ledges and opening of cliffs, bluffs, buildings, and occasionally trees. Foraging: Variety of open habitats including wetlands, fields, and lakeshores ¹	Likely
Insects		
A beetle (<i>Batriasymmodes spelaeus</i>)	Terrestrial cave obligate ³	Likely
A beetle (<i>Batrisodes</i>)	Subterranean obligate ¹	Likely

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Common Name	Habitat Requirements	Suitable Habitat Present
<i>valentinei</i>)		
A cave obligate beetle (<i>Pseudanophthalmus fluvialis</i>)	Caves, subterranean ¹	Likely
A cave obligate beetle (<i>Pseudanophthalmus meridionalis</i>)	Caves, subterranean ¹	Likely
A cave obligate (<i>Pseudoscorpion Alabamocreagris pecki</i>)	Caves, subterranean ¹	Likely
A cave obligate spider (<i>Nesticus barr</i>)	Terrestrial cave obligate ³	Likely
A cricket (<i>Ceuthophilus stygius</i>)	Caves ¹	Likely
A ground beetle (<i>Pseudanophthalmus distinguens</i>)	Subterranean ¹	Likely
A ground beetle (<i>Rhadine caudata</i>)	Ground ¹	Likely
A hexapod (<i>Litocampa henroti</i>)	Subterranean ¹	Likely
A springtail (<i>Pseudosinella hirsuta</i>)	Caves, subterranean ¹	Likely
Arachnids		
Cave spring cave spider	Caves, subterranean ¹	Likely
Mammals		
Gray bat	Caves ¹	Yes Recorded on TVA Zones 2, 6 and 7 parcels
Indiana bat	In winter, hibernacula are found in caves. During summer, roosts are found in wooded or semi wooded areas that have suitable trees with loose bark ¹	Likely Historical record on a TVA Zone 7 parcel
Little brown bat	Hibernation occurs in caves. Summer roosting occurs in hollow trees, caves, buildings, under bridges, or in culverts. Foraging is over/along waterways ¹	Yes Recorded on a TVA Zone 2 parcel
Northern long-eared bat	Winter hibernacula are found in caves. During summer, roosts are found in wooded or semi wooded areas that have suitable trees with loose bark. Often found in old-growth forests ¹	Likely Recorded acoustically on a TVA Zone 2 parcel and captured via mist net on an adjacent parcel
Prairie vole	Upland herbaceous fields, grasslands, old fields, and thickets ¹	Yes Recorded on a TVA Zone 4 parcel
Rafinesque's big-eared bat	A woodland bat. Hibernation occurs in caves. Summer roosting occurs in hollow trees, buildings, under bridges or in culverts. ¹	Likely
Southeastern bat	Usually roosts in buildings and hollow trees, occasionally uses caves and other man-made structures. Maternity colonies found in caves. Associated	Likely

Common Name	Habitat Requirements	Suitable Habitat Present
	with water ²	
Tricolored bat	Winter roosts are in caves or cave like areas. Summer roosts are usually found in dead or live tree foliage, caves, and mines. Occasionally found in man-made structures, or tree cavities. Tolerates open areas ¹	Recorded on TVA Zone 6
Reptiles		
Alligator snapping turtle	Slow moving, deep water of rivers, sloughs, oxbows, swamps, and lakes; middle and west Tennessee; obscure ³	Likely
Red milk snake	Dry open woods, especially along edges. Often in rock outcrops and under logs ²	Likely

¹ Source: NatureServe 2016

² Source: ADCNR 2016

³ Source: TDEC 2014

2.2.5.2.1 Amphibians

Three species of amphibians are found within 3 miles of Wheeler Reservoir; however none of these species have been recorded on TVA owned parcels. Potentially suitable habitat for the, Tennessee cave salamander, hellbender and the green salamander is possible within Wheeler Reservoir.

2.2.5.2.2 Birds

Of the three birds species recorded within 3 miles of the reservoir, the TVA Natural Heritage database has records of the bald eagle and the common barn owl within TVA parcels. Two of these records occur on a parcel which would be allocated as Zone 2 (Project Operations). The TVA Natural Heritage database does not have any records of the peregrine falcon on any of the Wheeler Reservoir parcels.

2.2.5.2.3 Insects

None of the 14 insect species located within 3 miles of the reservoir have been recorded within TVA parcels. While the seven caves may provide suitable habitat, no occurrences for the species have been records; most likely due to the lack of presence/absence surveys. Fifteen of the 253 caves within 3 miles of the reservoir have records of insects.

2.2.5.2.4 Mammals

Seven species of bats have been identified within 3 miles of the reservoir, however only the little brown bat, gray bat, Indiana bat, tricolored bat and northern long-eared bat has been detected within TVA parcels on Wheeler reservoir. Although records of northern long-eared bat on TVA parcels only come from acoustic recordings, several individuals of this species have been captured via mist net less than 1,000 feet from TVA parcels. All seven bat species use caves and/or forested habitat during some season, therefore it is likely that there is suitable habitat present within TVA parcels for southeastern bat and Rafinesque's big-eared bat as well. There are 253 caves within 3 miles of Wheeler Reservoir, with seven of those caves existing on TVA parcels. Historical records of gray bats and Indiana bat are known from a cave on a TVA parcel that would be allocated to Zone 7 (Shoreline Access). This cave is now flooded and does not support bats. A known summer cave for gray bat and winter cave for small numbers of tricolored bat exists on TVA parcel 3, which would be allocated to Zone 6 (Developed Recreation). A gray bat maternity roost is also known from a cave that occurs immediately adjacent to parcel 88, which would be allocated to Zone 4 (Natural Resource Conservation). Fourteen of the 253 caves within 3 miles of the reservoir have records of bat activity. The prairie vole has also been detected within TVA parcels that would be allocated to Zone 4 (Natural Resource Conservation) on Wheeler Reservoir.

2.2.5.2.5 Reptiles

While the alligator snapping turtles and red milk snakes have been recorded within 3 miles of the reservoir, there are no records of either species within TVA parcels. However, suitable habitat is likely to occur based on land cover data and aerial imagery.

2.2.5.3 Aquatic Species

In the counties surrounding Wheeler Reservoir, there are 45 federally listed aquatic animal species, 35 of which are listed as endangered. There are 104 additional state-listed species (Table 2-8). Within 10 miles of the reservoir, there are 30 federally listed species and an additional 65 state-listed species (Table 2-11). There are 12 listed species recorded on TVA parcels, and 62 listed species have been recorded within the reservoir.

All parcels where listed aquatic species have been recorded would be zoned under the draft RLMP as either Zone 3 (Sensitive Resource Management) or Zone 4 (Natural Resource Conservation).

Table 2-11. Habitat Requirements for Aquatic Species of Conservation Concern within 10 Miles of Wheeler Reservoir

Common Name	Habitat Requirement	Suitable Habitat Present
Crustacean		
A crayfish (<i>Orconectes australis australis</i>)	Subterranean streams ¹	Unlikely
A troglobitic crayfish (<i>Cambarus veitchorum</i>)	Subterranean pools ¹	Unlikely
Alabama blind cave shrimp	Subterranean pools ¹	Unlikely
Troglobitic crayfish (<i>Cambarus jonesi</i>)	Cave pools ¹	Unlikely
Troglobitic crayfish (<i>Procambarus pecki</i>)	Subterranean pools ¹	Unlikely
Fish		
Bigeye chub ³	Small to medium tributaries with gravel substrate. Does not tolerate siltation ¹	Yes Recorded on TVA Zones 3 and 4 parcels
Blotched chub	Shallow water of medium streams to small rivers with gravel, rubble, or bedrock substrate. ¹	Likely
Bluebreast darter	Warm creeks-small rivers, runs and riffles ¹	Likely
Blueside darter ³	Rocky pools and riffles of small fast creeks and rivers ¹	Yes
Boulder darter ³	Riffles of small to medium rivers ¹	Yes
Chestnut lamprey ³	Medium to large river and large reservoirs ¹	Yes
Fantail darter	Riffles with gravel/rubble in creeks to medium rivers ¹	Yes Recorded on TVA Zones 3 and 4 parcels
Flame chub	Springs and spring fed streams ¹	Unlikely
Gilt darter ³	Small-medium rivers with clean water and strong flow ¹	Yes
Mountain madtom	Small to large rivers over gravel substrate ¹	Likely
Paddlefish ³	Slow water of lakes and large rivers ¹	Yes
Redline darter	Riffles of clear creeks and small to medium rivers ¹	Yes Recorded on TVA Zones 3 and 4 parcels
River carpsucker ³	Pools and backwaters of rivers and larger creeks ¹	Yes
River darter	Large rivers and tributaries, in deep chutes and riffles ¹	Likely
Rosyface shiner ³	Swift creeks and small rivers over gravel substrate ¹	Yes Recorded on TVA Zones 3 and 4 parcels
Silver redhorse ³	Pools and runs of small to large rives, natural lakes and impoundments ¹	Yes Recorded on TVA Zones 3 and 4 parcels
Silver shiner ³	Rocky runs and riffles in clear weedless rivers ¹	Yes Recorded on TVA

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Common Name	Habitat Requirement	Suitable Habitat Present
		Zones 3 and 4 parcels
Slackwater darter	Gravel bottomed pools in slow areas of creeks and small rivers ¹	Likely
Slender madtom	Riffles, rocky pools ¹	Somewhat likely
Snail darter	Medium sized rivers in gravel and sandy runs ¹	Likely
Snubnose darter ³	Rock pools and riffles of creeks to medium rivers ¹	Likely
Southern cavefish ³	Aquatic cave obligate; cave streams, karst waters, and water supply wells; reported from all karst regions excluding RV and BR ²	Yes
Southern redbelly dace	Headwaters and upland creeks ¹	Unlikely
Spring pygmy sunfish ³	Springs, swamps, wetlands ¹	Yes Recorded on a TVA Zone 4 parcel
Stargazing minnow ³	Creeks and small to medium rivers in rocky/gravel runs and riffles. Requires warm clear water ¹	Yes Recorded on TVA Zones 3 and 4 parcels
Stonecat	Runs, riffles, rapids in creeks and rivers ¹	Yes Recorded on a TVA Zone 4 parcel
Stripetail darter	Pools of shallow headwater, creeks, small rivers with rocky substrate ¹	
Tuscumbia darter ³	Ponded spring-fed habitats of valley floor springs; lower Tennessee River; probably extirpated from TN ²	Yes Recorded on a TVA Zone 4 parcel
Gastropods		
Anthony's river snail ³	Cobble rubble substrate of large rivers ¹	Yes
Armored marstonia ³	Stream margins, pool edges ¹	Yes
Noble hornsnail ³	Freshwater ¹	Yes
Rugged hornsnail	Flowing water on gravel/cobble/boulder substrate. Small-large rivers ¹	Yes
Shortspire hornsnail ³	Freshwater ¹	Yes
Skirted hornsnail	Creeks, medium rivers. Endemic to tributaries of the Tennessee River ¹	
Spiral hornsnail ³	Creeks, medium rivers. Endemic to tributaries of the Tennessee River in northern Alabama ¹	Yes
Varicose rocksnail	Rocky shoals and riffle son medium-big rivers with moderate current ¹	
Warty rocksnail ³	Rocky substrates in riffle systems; Elk River and larger tributaries (Tennessee River watershed) ²	Yes
Insects		
A caddisfly (<i>Hydropsyche simulans</i>)	Streams ¹	Unlikely
A caddisfly (<i>Rhyacophila fenestra</i>)	Streams ¹	Unlikely
Mussels		
Acornshell*	Medium to large rivers in riffle beds ¹	Yes
Birdwing pearlymussel ³	Small to medium rivers in riffles with sand/gravel substrate and moderate to fast current ¹	Yes
Black sandshell ³	Medium-large rivers in areas with strong currents over rocky substrates ¹	Yes

Common Name	Habitat Requirement	Suitable Habitat Present
Butterfly ³	Large rivers. Adapts to impoundments ¹	Yes
Cracking pearlymussel ³	Creeks to large rivers. In fast currents it is found in sand/gravel/cobble substrate. In slow current, mud/sand substrates ¹	Yes
Cumberland bean ³	Shallow riffle and shoal areas of fast moving rivers with gravel substrate ¹	Yes
Cumberland moccasinshell	Small streams and headwaters in sand/gravel substrate ¹	Yes
Cumberland monkeyface	Riffle and shoal areas of headwater streams and big rivers. Requires clean fast flowing water ¹	Unlikely
Cumberlandian combshell ³	Shallow water of large creeks to large rivers ¹	Yes
Deertoe ³	Medium rivers and lakes ¹	Yes
Dromedary pearlymussel	Riffles at sand and gravel shoals of moderate current rivers. In Tennessee, it is also found in deeper slower moving water ¹	Yes
Fanshell ³	Medium to large streams, sometimes found in rivers with gravel substrate and strong current ¹	Yes
Fine-rayed pigtoe ³	High gradient clear streams with firm cobble/gravel substrate ¹	Yes
Fluted kidneyshell ³	Small-medium rivers in swift currents ¹	Yes
Hickorynut ³	Sand/gravel substrate in deep water ¹	Yes
Kidneyshell ³	Small to medium rivers, sometime in shallow areas of impoundments with moving water ¹	Yes
Lilliput ³	Shallows of lakes, ponds, reservoirs, and rivers ¹	Yes
Monkeyface ³	Medium to large rivers in gravel/sand substrate ¹	Yes
Mucket ³	Large creeks and rivers of riffles shoals and runs with strong currents ¹	Yes
Narrow catspaw	Small-medium rivers in fast moving waters over gravel and sand ¹	Likely
Ohio pigtoe ³	Medium to large rivers. In reservoirs, usually found in tailwaters ¹	Yes
Orange-foot pimpleback ³	Riffles and shoals in medium to large rivers ¹	Yes
Painted creekshell	Mixed sand and gravel with good current in less than 3 feet water ¹	Likely
Pink heelsplitter	A variety of substrates in low to swift currents. Can adapt to lake habitats ¹	Likely
Pink mucket	Large river species associated with swift currents. May be able to reproduce in impoundments with flowing water ¹	Likely
Pink papershell	Rivers in shallow water with slow currents and sand/gravel/mud substrate ¹	Likely
Pocketbook	Generalized habitat, adapts to both deep impoundments and shallow rivers ¹	Likely
Purple lilliput	Small-medium sized rivers and large creeks, in mud, sand, and gravel substrates; Tennessee and Cumberland river systems in headwater areas ²	Somewhat likely
Pyramid pigtoe ³	Rivers with strong current and firm sand/gravel substrates; Tennessee and Cumberland river systems including KY Reservoir ²	Yes
Rabbitsfoot	Large rivers in sand and gravel; Tennessee and Cumberland systems ²	Likely

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Common Name	Habitat Requirement	Suitable Habitat Present
Rainbow	Riffles along emergent vegetation beds in moderate to strong current. Small to medium rivers, occasionally in lakes ¹	Somewhat likely
Ring pink ³	Gravel and sandbars of large rivers ¹	Yes
Rough pigtoe ³	Medium to large rivers in sand/gravel/cobble shoals. Occasionally found in flats and muddy sand ¹	Yes
Round hickorynut	Medium-large rivers in sand and gravel substrate with moderate flow ²	Likely
Round pigtoe ³	Medium to large rivers with firm substrate ¹	Yes
Round-rib elimia	Springs and spring branches ¹	Unlikely
Sheepnose ³	Generally found in deep water mud/sand/gravel bottoms in large rivers with swift currents ¹	Yes
Shiny pigtoe pearlymussel	Shoals and riffles of small to medium rivers. Does not tolerate deep water or reservoirs ¹	Unlikely
Slabside pearlymussel ³	Large creeks to medium rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with medium current; Tennessee River watershed ²	Yes
Slender campeloma ³	Soft sediment in a few lakes and streams ¹	Yes Recorded on a TVA Zone 3 parcel
Slowwater elimia	Flowing water ¹	Somewhat likely
Smooth rabbitsfoot ³	Small to medium rivers with moderate to swift current ¹	Yes
Snuffbox ³	Riffles of medium-large rivers with stony or sandy bottoms, in swift currents, usually deeply buried; Tennessee and Cumberland river systems ²	Yes
Spectaclecase ³	In shelters areas of large rivers ¹	Yes
Spike ³	Medium to large rivers in shoals, occasional found in tail waters of dams ¹	Yes
Tan riffleshell*	Headwaters. Riffle sand shoals in gravel substrate ¹	Yes
Tennessee clubshell ³	Creeks and rivers in shallow riffles and shoals composed of gravel or sand. Occasionally found in deep water habitat south of Watts Bar Dam ²	Yes
Tennessee heelsplitter	Spring runs, creeks, and small rivers, in substrate of sand and mud; upper Tennessee and Conasauga river watersheds; Blue Ridge and Ridge and Valley ²	Somewhat likely
Tennessee pigtoe ³	Riffle sand shoals over rocky substrate in shallow water of creeks and rivers ²	Yes
Tubercled blossom pearlymussel ³	Shallow riffles and shoals with sand/gravel substrate in creeks and medium rivers ¹	Yes
Wartyback	Medium to large rivers in 15 to 18 feet water on sand/mud substrate ¹	Likely
Wavy-rayed lampmussel	Small to medium streams and rivers in riffles over rocky substrate ¹	Likely
White heelsplitter ³	Rivers, sloughs, backwaters, lakes, reservoirs ¹	Yes

¹Source: NatureServe 2016

² Source: TDEC 2014

³ Records within the Reservoir

For information on threatened and endangered species and the potential impacts of the draft RLMP, see Volume I, Section 3.7 of the EIS.

2.2.6 Water Quality

Wheeler Reservoir is a large reservoir with moderate average hydraulic residence time of nine days and average depth of 15.7 feet. In the state of Alabama, water use classifications apply water quality criteria adopted for particular uses based on existing utilization, uses reasonably expected in the future, and those uses not now possible because of correctable pollution but which could be made if the effects of pollution were controlled or eliminated. The seven designated uses for interstate and intrastate waters are defined by the Alabama Department of Environment Management (ADEM), Chapter 335-6-11 and include: Outstanding Alabama Water, Public Water Supply, Swimming and Other Whole Body Water-Contact Sports, Shellfish Harvesting, Fish and Wildlife, Limited Warmwater Fishery, and Agricultural and Industrial Water Supply. Waterbodies in Alabama that do not fully support their designated uses based on a review of water quality data and information are considered to be impaired and included in the 303(d) list. ADEM has included Wheeler Reservoir on its 303(d) list of impaired water based on nutrients with a source or cause being agriculture non-point sources (ADEM 2016). ADEM's designated uses for Wheeler Reservoir include swimming and fish and wildlife.

The most recent ratings for dissolved oxygen, chlorophyll, and sediment for Wheeler Reservoir from TVA's Reservoir Ecological Health Ratings program are presented in Table 2-12. The dissolved oxygen rating has been good at the mid-reservoir location and poor at both the forebay and Elk River embayment due to low concentrations in the lower water column during the summer. Dissolved oxygen conditions vary based on streamflow and seasonal conditions. Chlorophyll typically rates as poor at the forebay and Elk River embayment. Ratings have varied between good, fair and poor at the mid-reservoir location. Sediment quality is typically rated as good in Wheeler Reservoir. Exceptions were fair ratings at the mid-reservoir in 1994, 1995 and 2003 when low levels of pesticides (dichlorodiphenyltrichloroethane/dichlorodiphenyltrichloroethane or chlordane) were detected. A fair rating has been determined at the forebay and Elk River embayment locations due to the presence of polychlorinated biphenyls.

Table 2-12. Ecological Health Indicators at Wheeler Reservoir – 2011

Monitoring location	Dissolved Oxygen	Chlorophyll	Sediment
Forebay	Poor	Poor	Fair
Mid-reservoir	Good	Poor	Good
Elk River embayment	Poor	Poor	Fair

Source: TVA 2016a

While water supply intakes and waste water discharges are regulated by the states under the National Pollutant Discharge Elimination System, TVA permits the actual intake and outfall structures under Section 26a of the TVA Act. The most recent state permit/water withdrawal registration data for water supply withdrawals and waste water discharges directly from or to the reservoirs is provided in Table 2-13. This information does not include withdrawals or discharges in the watersheds.

Table 2-13. Direct Reservoir Average Daily Water Supply Withdrawals and Wastewater Discharges – 2016

2010 Water Withdrawal Volume (MGD)			2010 Wastewater Discharge Volume (MGD)		
Municipal	Industrial	Thermo-electric	Municipal	Industrial	Thermo-electric
82.01	70.21	2,749.90	35.63	62.66	2,744.09

Notes: Municipal water withdrawal data includes 5.16 MGD in the impounded portion of Elk River.

Industrial water withdrawal data includes 60.09 MGD for a facility that is now idle.

Industrial wastewater discharge data includes 57.32 MGD for a facility that is now idle.

MGD = Million Gallons per Day

Source: Pers. Comm., Gary Springston, TVA, August 2016.

For information on water quality and potential impacts of the draft RLMP, see Volume I, Section 3.8.

2.2.7 Wetlands

Wetlands are transitional ecosystems between terrestrial and aquatic communities, where saturation with water is the dominant factor in determining the types of plants and animals present. Wetlands are ecologically important because of their beneficial effect on water quality, their moderation of flow regimes by retaining and gradually releasing water, their value as wildlife habitat, and as areas of botanical diversity. Wetlands exist within and adjacent to TVA reservoirs and are influenced by surface water and groundwater connections to the water levels in these reservoirs. The presence of wetlands immediately on or adjacent to TVA reservoirs is related to the land use characteristics and development status of the shoreline. Lands supporting more intense shoreline development are typically noted as having a decrease in wetland features.

Emergent wetlands typically occur in a narrow elevation zone centered on the summer pool elevation and contain water for much of the growing season. Vegetation typically includes cattail, bulrush, arrowhead, and water plantain. Scrub-shrub wetlands are typically associated with reservoir shorelines and coves and are often transition zones between emergent and forested wetlands. The vegetation can include hardwood trees less than 15 feet tall, but are dominated by shrubs such as silky dogwood, red osier dogwood, buttonbush, alder, willow, and elderberry. Forested wetlands occur on lower-lying, undisturbed areas and along tributary streams on power generation sites. These areas are dominated by flood tolerant hardwood species such as oak, maple, and ash.

Vegetated wetlands occur with greater frequency and size along the mainstem reservoirs and tailwaters, such as Wheeler, than along the tributary reservoirs and tailwaters. This is due in part to the larger-sized watersheds of mainstem reservoirs resulting in a greater volume of water; greater predictability of the annual hydrologic regime; shoreline and drawdown zone topography (wider and flatter floodplains, riparian zones, and drawdown zones and large areas of shallow water); and larger sections of relatively still, shallow-water areas. Wetlands tend to be smaller and do not occur as frequently on tributary reservoirs because of the relatively steep drawdown zones, the rolling to steep topography of adjacent lands, shoreline disturbance caused by wave action, and the lower predictability and shorter duration of summer pool levels. Within mainstem reservoirs, wetlands occur on flats between summer and winter pool elevations, on islands, along reservoir shorelines, in dewatering areas, in floodplains, on river terraces, along connecting rivers and streams, around springs and seeps, in natural depressions, in areas dammed by beaver, in and around constructed reservoirs and ponds (diked and/or excavated), and in additional areas that are isolated from other surface waters.

The information presented in this document is derived from the National Wetland Inventory database and supplemented with previous on-the-ground surveys done by TVA, including for the SMI EIS. Field surveys were not performed for this RLMP to gather more up-to-date information regarding the types and locations of wetlands within the Wilson Reservoir. The most abundant wetland types within the Wheeler Reservoir are forested and emergent (Table 2-14). In addition, there are 10.1 acres of wetlands previously identified by TVA within this reservoir that were not assigned a type.

Table 2-14. Wetland Types within the Wheeler Reservoir

Wetland Type	Acres
Unknown	10.1
Scrub-Shrub	1,416.3
Open Water	1,863.3
Emergent	2,703.4
Forested	11,412.6
Total	17,404.1

Source: USFWS 2016b

Some of the wetland areas within the reservoir are present in local, state, and federally managed areas including wildlife refuges, wildlife management areas, national forests, parks, and recreation areas and TVA-designated sites, including small wild areas, habitat protection areas, and ecological study areas (see Section 2.2.11).

For information on wetlands and the potential impacts of the draft RLMP, see Volume I, Section 3.9.

2.2.8 Floodplains

The area encompassed by the RLMP extends from the lower limit of TVA's property, just below the Wheeler Dam at approximate TRM 274.15, upstream to about TRM 349.0 at Guntersville Dam. Wheeler Dam is located at TRM 274.9. The 100-year floodplain is the area that would be inundated by the 100-year flood (base flood).

In Wheeler Reservoir, the 100-year flood elevations for the Tennessee River vary from 557.3-feet msl at the Wheeler Dam at TRM 274.9 to elevation 581.1-feet msl at TRM 349.0 just below Guntersville Dam. The 500-year flood elevations vary from 557.3-feet msl at TRM 274.9 to 583.9-feet msl at TRM 349.0. Tabulations of the 100- and 500-year flood elevations are included Appendix D of Volume I of the EIS. For information on the potential impacts of the draft RLMP on floodplains, see also Section 3.10 of Volume I.

2.2.9 Air Quality

In accordance with the Clean Air Act Amendments of 1990, all counties that include parts of the Wheeler Reservoir are designated with respect to compliance, or degree of noncompliance, with the National Ambient Air Quality Standards (NAAQS). The NAAQS have been established to protect the public health and welfare with respect to six pollutants: particulate matter, sulfur dioxide, carbon monoxide, ozone, nitrogen dioxide, and lead. An area with air quality better than

the NAAQS is designated as “attainment;” an area with air quality worse than the NAAQS is designated as “non-attainment.” Lauderdale, Lawrence, Limestone, Madison, Marshall and Morgan counties in Alabama are considered in attainment for all NAAQS. The Sipsey Wilderness is a designated Prevention of Significant Deterioration Class I air quality area approximately 21 miles from the Wheeler Reservoir and is afforded special protection. General information about air emissions and climate change is identified in Volume I.

Sources of air emissions within lands along the Wheeler Reservoir include industrial development, public works projects, developed recreation sites, motorized watercraft (motor boats, jet skis), and other vehicle traffic. Lands that would be allocated to Zone 5 (Industrial) have the greatest potential to support uses that produce higher levels of air emissions. Major sources of air emissions within Zone 5 include industrial and light manufacturing facilities, barges, trucks and personal vehicles, and barge terminals and operations.

Air emissions generated within Wheeler Reservoir vary with type of activity/development. Currently, air emissions from uses on TVA lands on the Wheeler Reservoir are low. Future projects that have the potential to affect ambient air quality would be planned in detail to minimize air emission impacts and would comply with Clean Air Act regulations.

For information on air quality and the potential impacts of the draft RLMP, see Volume I, Section 3.11.

2.2.10 Cultural and Historic Resources

Cultural resources include prehistoric and historic archaeological sites, districts, buildings, structures, and objects, as well as locations of important historic events that lack material evidence of those events. Cultural resources that are listed, or considered eligible for listing, on the National Register of Historic Places (NRHP) are called historic properties. To be considered an historic property, a cultural resource must possess both integrity and significance. A historic property’s integrity is based on its location, design, setting, materials, workmanship, feeling, and association. The significance is established when historic properties meet at least one of the following criteria: (a) are associated with important historical events or are associated with the lives of significant historic persons; (b) embody distinctive characteristics of a type, period, or method of construction; (c) represent the work of a master, or have high artistic value; or (d) have yielded or may yield information important in history or prehistory (36 Code of Federal Regulations [CFR] Part 60.4).

Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to consider the effects of their proposed undertakings on historic properties and provide the Advisory Council on Historic Preservation an opportunity to comment on those effects. TVA determined that the draft RLMP (Alternative B) is an “undertaking” as defined by the regulations under NHPA. Once an action is determined to be an undertaking, the regulations require agencies to consider whether the proposed activity has the potential to impact historic properties. If the undertaking is such an activity, then the agency must follow the following steps: (1) involve the appropriate consulting parties; (2) define the area of potential effects (APE); (3) identify historic properties in the APE; (4) evaluate possible effects of the undertaking on historic properties in the APE; and (5) resolve adverse effects (36 CFR Section [§] 800.4 through 800.13). An APE is defined as the “geographic area or areas within which the undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist” (36 CFR § 800.16). Concerning cultural resources, the APE is taken as the affected environment for purposes of this EIS. TVA defined the APE to be the approximately 5,095-acre area where TVA is proposing in its RLMP (Alternative B) to change the current Zone allocations.

Section 106 of the NHPA requires federal agencies to consult with the respective State Historic Preservation Officer and Indian tribes when proposed federal actions could affect historic and cultural resources, including archaeological resources, which are also protected under the Archaeological Resources Protection Act, and the Native American Graves Protection and Repatriation Act, in addition to the NHPA.

2.2.10.1 Archaeological Resources

The Wheeler Reservoir region has been an area of human occupation for the last 12,000 years. Human occupation in the Valley includes five broad cultural periods: Paleo-Indian (Older than 9,200 BC), Archaic (9,200-1,000 BC), Woodland (1,000 BC-AD 900), Mississippian (AD 900-1,500), and Historic (AD 1,500-present). These divisions are based on stylistic changes in artifact types and technological and cultural adaptations. Prehistoric land use and settlement patterns vary during each period, but short- and long-term habitation sites are generally located on flood plains and alluvial terraces along rivers and tributaries. Specialized campsites tend to be located on older alluvial terraces and in the uplands. During the later Protohistoric/Historic period (sixteenth century) the area contained a small number of aboriginal settlements. At this time the Cherokee occupied the region to the north and east along the headwaters of the

Tennessee River, the Upper Creeks bordered the area south of the Cherokee, and the Chickasaw occupied the western Tennessee Valley (Altschul 1980). One early Euro-American settler to the area was John “Old Man” Ditto. Ditto established Ditto’s Ferry that provided access to the lands on the south side of the Tennessee River, which were still claimed by the Cherokee and Chickasaw. The influx of European settlers into the region from neighboring states spurred the forced cession of Cherokee and Chickasaw lands in the Treaties of 1806, 1817, and 1819 (Abram 2013; Kappler 1904a: 143, 1904b: 179; O’Brien 2013). Following Native American cession and removal, Euro-American settlement increased. Towns such as Huntsville and Decatur were founded and rapidly grew. Cotton was the principal crop but the region also contained smaller-scale subsistence level farming. The region gained national significance during the Civil War, when it was a major strategic area because of the railroad and the Tennessee River. After the Civil War, a system of tenant farming and sharecropping replaced the large plantation farming. Beginning in the late 1880s, textile mills acquired greater prominence in North Alabama. Archaeological resources associated with the antebellum and post-antebellum periods include remains associated with individual farmsteads or larger scale plantations and civic, ceremonial, and industrial sites.

The earliest formal archaeological investigations in the region began long prior to the impoundment of Wheeler Reservoir and were undertaken by Ephraim Squier and Edward Davis (1848), Cyrus Thomas (1894), and Clarence B. Moore (1915). These early investigations were primarily concerned with prehistoric monumental architecture, caves, and large shell midden sites. During the years leading up to the construction of Joe Wheeler Dam, TVA, utilizing labor from the Works Projects Administration, conducted large-scale archaeological excavations in Wheeler Basin (Webb 1939). These excavations also focused on large shell midden sites and large mound civic/ceremonial centers, and they provided detailed information regarding the chronological occupation of the region. Excavations at the Whitesburg Bridge and Flint River sites, and on several mound and midden sites on and adjacent to Hobbs Island in Madison County, revealed deep deposits spanning the Archaic through Mississippian cultural periods. In recent decades, TVA fee-owned land has been subject to both systematic and opportunistic archaeological surveys for TVA undertakings and land planning actions. The largest of these archaeological investigations in the Wheeler Reservoir was approximately 10,000 acres and was conducted by the University of Alabama, Office of Archaeological Services (Shaw et al. 2000) and approximately 443 miles of shoreline conducted by the University of Tennessee’s Archaeological Research Laboratory (Gage and Herrmann 2009). However, only 8 percent of

Wheeler TVA fee-owned land has been subject to systematic archaeological survey. Thus, archaeological surveys have not been conducted on all of the lands involved in this land planning process. Moreover, many of the previously reported archaeological sites have not been assessed for their NRHP eligibility. Within the 5,068 acres subject to TVA's zone reallocation, these limited archaeological surveys resulted in the identification of 148 archaeological sites.

2.2.10.2 Historic Structures

The acquisition of land for Wheeler Reservoir resulted in the removal of many structures and other man-made features. The few structures that remain represent all historical periods including individual farmsteads or larger scale plantations, civic or religious sites such as churches, cemeteries or schools, and industrial sites such as mills. In addition, structures associated with the inception of TVA have historic significance. TVA has conducted a survey of all of the major hydroelectric facilities that TVA built. As a result of this survey, Wheeler Dam and its associated structures was nominated for listing in the NRHP. In July 2016, these structures were formally placed on the NRHP. Furthermore, many historic structures remain on adjacent non-TVA land that may be indirectly impacted by activities on TVA land.

For more information on cultural resources and the potential impacts of the draft RLMP, see Volume I, Section 3.12.

2.2.11 Natural Areas and Ecologically Significant Sites

Natural areas include managed areas, ecologically significant sites, and Nationwide Rivers Inventory (NRI) streams. Managed areas include lands held in public ownership that are managed by an entity (e.g., TVA, National Park Service, USFWS, state of Alabama, Limestone County) to protect and maintain certain ecological and/or recreational features. A management plan or similar document defines what types of activities are compatible with the intended use of the managed area. Ecologically significant sites are tracts of privately owned land either that are recognized by resource biologists as having significant environmental resources or identified tracts on TVA lands that are ecologically significant, but not specifically managed by TVA's Natural Areas Program. Nationwide Rivers Inventory streams are free-flowing segments of rivers recognized by the National Park Service as possessing outstandingly remarkable natural or cultural values that may potentially qualify them as part of the National Wild and Scenic Rivers System.

The TVA Natural Heritage database indicates that there are 26 natural areas on or within TVA parcels along Wheeler Reservoir. The TVA Natural Areas Program manages eight of the 26 natural areas. An additional 20 natural areas are located within 3 miles of Wheeler Reservoir. The natural areas on Wheeler Reservoir include TWRA lands, city parks, and state parks. For more information on managed areas and sensitive ecological sites, see Volume I, Section 3.13 or Appendix D.

2.2.12 Aesthetics and Visual Resources

Wheeler Reservoir provides a wide variety of scenic resources to a region that is composed largely of level to slightly rolling farmland. The upper third of the reservoir is riverine in character, with only a few stretches of the eroded high-bank shorelines typical of most mainstream tailwater areas. Of notable visual significance are the numerous high rock bluffs that dominate the landscape and exhibit many unique facades that evidence centuries of change. This upper portion of the reservoir is also accented by a number of tributary creeks and rivers that afford boating access for a number of miles from the main channel. These streams offer quiet settings as they meander through bottomland hardwood stands, swamps, and occasional high-bank, bluff-type landscapes.

The mid-portion of the reservoir takes on more lake-like characteristics, with the shoreline composed largely of wildlife refuges and shallow backwater areas that are occupied by aquatic plants during much of the year.

Spring Creek embayment affords the viewer a somewhat unusual setting visible mainly to the small boater and the back-road traveler. This deep-water embayment provides a calm, pastoral setting at human scale, which is a welcome relief from the vastness of the main reservoir. Its shoreline is agricultural in nature, broken intermittently by small timber stands and devoid of development. On a similar scale is the Elk River, navigable by small boats for many miles from the reservoir. While residential development dots much of the lower section of the Elk River, some of the most notable visual assets are found along its shores. High, sculpted rock bluffs and calm, stump-filled areas lined with stands of bottomland hardwoods can be found for miles along its reaches.

The lower portion of the main reservoir holds the largest concentrations of primary and secondary lake homes. These range in size from mobile homes and cottages to large primary residences. Concentrations of residents are greatest along the northern shoreline and along Elk

River. This appears, in part, to be a result of available private land and the proximity to numerous small towns and communities. While Wheeler Reservoir supports a large industrial usage, it does not have the residential densities of most other TVA lakes, nor does it receive the same boating use.

For information on visual resources and the potential impacts of the draft RLMP, see Volume I, Section 3.14

2.2.13 Noise

Sources of noise within lands along the Wheeler Reservoir include those associated with industrial development, developed recreation sites, and uses related to TVA project operations and various public works projects. Characteristics of noise emissions associated with common land uses are identified in Volume I, Section 3.15.

Lands allocated to Zone 5 (Industrial) have the greatest potential to support uses that produce high levels of noise. . The most common measurement of sound and environmental noise is the A-weighted decibel scale (dBA). This is a logarithmic scale that ranges from 0 dBA to about 140 dBA and approximates the range of human hearing. Common sources of noise from industrial uses include: heavy trucks; rail and barge operations; and industrial workplaces. Noise emission levels for these sources can range from 85 dBA to 100 dBA (U.S. Department of the Interior [USDOI] 2008) and are dependent on the distance from the noise source. Lands allocated to Zone 2 (Project Operations) and Zone 6 (Developed Recreation) also have the potential to generate noise, but typically to a lesser degree than industrial development. The primary source of noise from land allocated to Zone 2 is the Wheeler Dam Reservation, including the dam, navigation lock and associated barge operations, access roads; and boat ramp and parking area. Noise emission levels for these sources can range from 70 dBA to 90 dBA (USDOI 2008) and are also dependent on the distance from the noise source. The primary source of noise from land allocated to Zone 6 (Developed Recreation) would be commercial marinas, motorized watercraft (i.e., motor boats and jet skis) and road traffic. Noise emission levels for land uses allocated to this zone can range from 40 A-weighted decibels (dBA) (very quiet) to 90 dBA (jet ski). Noise levels for motor boats and jet skis may also exhibit short elevated bursts of noise as a result of speed of the watercraft and other operational factors.

TVA land that would be allocated to Zone 3 (Sensitive Resource Management), Zone 4 (Natural Resource Conservation) and Zone 7 (Shoreline Access) account for the majority (80 percent) of

land uses at Wheeler Reservoir. Such land uses generally would not create noise emissions that would have an effect on the ambient noise environment and reflect a general environment consisting of low noise levels.

Approximately 20 percent of land along the reservoir would be allocated to zones that would support land uses with the potential for noise emissions (Zones 2, 5, and 6). Noise from land uses varies with the type of development and would attenuate with distance from the source and as such, the noise level around the reservoir is relatively low. Any future projects on parcels that have the potential to affect noise emissions would be planned in detail and may be expected to consist of both water-dependent facilities and other common actions as well as new developments as allowed per each land use zone.

2.2.14 Socioeconomics and Environmental Justice

2.2.14.1 Population and Percent Growth – Wheeler Reservoir

The population of the Wheeler Reservoir area is described in Table 2-15. Madison County has the highest population of 353,089 representing an increase of 5.5 percent since 2010. Overall, the total populations within the area excluding Madison County range from 33,115 in Lawrence County to 119,565 in Morgan County. Populations of Lauderdale and Lawrence declined by 0.4 and 2.1 percent, respectively, from 2010 to 2015. Limestone, Madison, and Marshall counties all had higher growth rates than the state of Alabama. Three of the six counties, Lauderdale, Lawrence, and Morgan, are projected to decline in total population between 2015 and 2020. Limestone County has highest percent change from 2010 to 2015 at 10.7 percent and projected growth rate for 2015 to 2020 at 8.8 percent.

Three of the six area counties are greater than 50 percent rural, including Limestone, Lawrence, and Marshall counties. Lauderdale County in addition to the previous three counties mentioned, has a more rural population than the 41 percent rural population in the state of Alabama.

Table 2-15. Population and Percent Growth – Wheeler Reservoir

Population	County						State
	Lauderdale	Lawrence	Limestone	Madison	Marshall	Morgan	Alabama
Population (2020 - Projection)	92,221	32,432	99,775	372,447	95,958	119,223	4,958,548
Population (2015 - Estimate)	92,596	33,115	91,663	353,089	94,725	119,565	4,858,979
Population (2014 – Estimate)	92,780	33,835	87,167	343,229	94,121	119,744	4,817,678
Population (2010)	92,709	34,339	82,782	334,811	93,019	119,490	4,779,736
Projected Growth (2015-2020)	-0.4%	-2.1%	8.8%	5.5%	1.3%	-0.3%	2.0%
Percent Change (2010-2015)	-0.1%	-3.6%	10.7%	5.5%	1.8%	0.1%	1.6%
Percent Change (2010-2014)	0.1%	-1.5%	5.3%	2.5%	1.2%	0.2%	0.8%
Percent Rural (2010)	49.3%	91.3%	57.6%	16.4%	53.3%	38.6%	41.0%

Sources: U.S. Census Bureau (USCB) 2010a and USCB 2015

As presented in Table 2-16, from 2010 to 2014, an average of 5.7 percent of the population was unemployed within the Wheeler Reservoir area. The state of Alabama during that same time period had an unemployment rate of 6 percent. Only Morgan County had an unemployment rate higher than the state of Alabama at 7 percent. Management, Business Science, and Arts was the largest employment sector among all counties within the area. At \$43,511, the state of Alabama has a higher median household income than half of the counties within the Wheeler Reservoir area. Madison County has a significantly higher median household income of \$58,203 compared to all of the other area counties. The lowest median household income is in Marshall County at \$39,473.

Table 2-16. Employment and Income, 2010-2014 – Wheeler Reservoir

Employment and Income	County						State
	Lauderdale	Lawrence	Limestone	Madison	Marshall	Morgan	Alabama
Civilian Employed Population 16 Years and Over	40,047	12,876	36,895	162,126	37,953	52,294	2,010,453
Management and Business Science and Arts	30%	25%	35%	45%	28%	29%	33%
Service Occupations	20%	16%	15%	15%	15%	16%	17%
Sales and Office	25%	20%	22%	23%	22%	24%	24%
Natural Resources, Construction, and Maintenance	11%	15%	11%	7%	14%	12%	10%
Production, Transportation and Material Moving	15%	25%	17%	7%	21%	19%	16%
Percent of Population >16 years Unemployed	5%	6%	5%	6%	5%	7%	6%
Median Household Income	\$42,703	\$40,356	\$49,461	\$58,203	\$39,473	\$45,341	\$43,511

Source: USCB 2010b

2.2.14.2 Environmental Justice

EO 12898, “Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations” formally requires Federal agencies to incorporate Environmental Justice as part of NEPA. Specifically, it directs them to address, as appropriate, any disproportionately high and adverse human health or environmental effects of their actions, programs, or policies on minority and low-income. Although TVA is not one of the agencies subject to this order, TVA routinely considers Environmental Justice impacts as part of the project decision-making process.

The minority population within the Wheeler Reservoir area ranges from 17.3 percent in Marshall County to 34.9 percent in Madison County (Table 2-17). Minorities comprise 33.7 percent of the population in the state of Alabama. On average, approximately 16 percent of the population within the area is below the poverty level. Madison County has the lowest poverty rate of 13.4 percent while Marshall County has the highest with 19.9 percent. Comparatively, the state of Alabama has an 18 percent poverty rate.

Table 2-17. Minority Population and Poverty, 2010-2014 – Wheeler Reservoir

Population	County						State
	Lauderdale	Lawrence	Limestone	Madison	Marshall	Morgan	Alabama
Total Population	92,780	33,835	87,167	343,229	94,121	119,744	4,817,678
White Alone ¹	80,695	26,344	70,843	236,921	87,082	99,065	3,327,891
Black or African American Alone ¹	9,228	3,751	11,133	82,307	1,703	14,413	1,269,808
American Indian and Alaska Native Alone ¹	436	1,845	527	2,244	632	915	25,181
Asian Alone ¹	743	40	1,089	8,415	512	746	58,322
Native Hawaiian and Other Pacific Islander Alone ¹	194	0	33	330	7	83	1,430
Two or More Races	1,433	1,802	1,673	9,958	1,594	2,641	76,428
Hispanic or Latino ²	2,174	663	4,934	15,984	11,830	9,304	191,838
Percent Minority	15.0%	24.0%	22.2%	34.9%	17.3%	23.5%	33.7%
Percent of Population Below Poverty Level	18.7%	17.1%	14.1%	13.4%	19.9%	15.1%	18.9%

¹ Includes persons reporting only one race

² Hispanics may be of any race, so also are included in applicable race categories.

Source: USCB 2010b

For more information about socioeconomics and the potential impacts of the draft RLMP, please see Volume I, Section 3.16 of the EIS.

2.3 Major Features of Wheeler Reservoir

2.3.1 Natural Resource Management

Since the impoundment of Wheeler Reservoir, TVA has proactively managed the natural resources on many of the adjacent lands as well as in the reservoir fluctuation zone and embayments. Historically, TVA managed the forests on a majority of these tracts and prescribed forestry management methodologies such as timber stand improvement cuttings, timber salvage as a result of storm damage, prescribed burns (primarily in pine stands), and tree plantings. Additionally, some forest clearings were created to provide additional wildlife habitat. TVA also maintained many miles of forest roads to allow enhanced access to the public for outdoor recreation and to facilitate natural resource management objectives.

TVA has cooperated with the ADCNR to maintain two WMA for waterfowl and small game hunting, farmland protection and crop production, and wildlife management, especially waterfowl management. The Whiteside and Rockhouse dewatering units are under a management agreement with the USFWS as part of the Wheeler National Wildlife Refuge (WNWR). A portion of the Harris-Sweetwater dewatering unit is included in the Swan Creek WMA.

Beginning in the early 1980's and continuing through present, TVA enhanced fish and wildlife habitat along the shorelines and in the fluctuation zone of Wheeler Reservoir by planting bald cypress trees, buttonbush, and other wetland plant species. Some of these plantings were in cooperation with the ADCNR and USFWS. TVA also provided property (Parcel 43) to ADCNR for the operation of a fish hatchery. This hatchery was used to raise game species for introduction into area waters to boost local fish populations. The lands surrounding the hatchery (Parcels 45, 46 and 47) were managed by ADCR as the Buck Island WMA. When the hatchery was closed in the late 1990's, these adjacent parcels were also returned to TVA for management.

Agricultural licenses have been established on several parcels around the reservoir. These licenses allow local farmers to continue agricultural production on historical farm tracts, as well as assist TVA in providing habitats for diverse wildlife populations. TVA has promoted wildlife nesting boxes and platforms for species such as bluebirds, wood ducks, ospreys, and eagles. These efforts have been concentrated in the Flint River management unit plan areas and within the WMAs and WNWR.

In 1998, a resource management unit plan was developed to guide the natural resource management of a large contiguous tract of land in the lower portion of the Flint River watershed. The Lower Flint River management unit plan outlined a scope for 25 years of natural resource management covering such activities as timber management, wildlife habitat enhancements, enforcement, forest road maintenance, and public use management.

TVA has stabilized shoreline areas with severely eroding banks containing archaeological resources and critically eroding island areas. In addition, TVA monitors and protects sensitive species on TVA lands and within the waters of Wheeler Reservoir. Through the years, TVA has also identified and protected unique and/or sensitive lands through the natural areas program. Several of these projects were in partnership with the USFWS and ADCNR.

TVA has increased public access along the Wheeler Reservoir shoreline for boat launching and shoreline fishing. Some of these efforts were in partnership with ADCNR and local governments. Boat ramps, parking lots, courtesy docks, and fishing piers have been constructed at various locations as part of this effort.

2.3.2 Wheeler National Wildlife Refuge

The Wheeler Migratory Waterfowl Refuge was established on July 7, 1938, by Franklin D. Roosevelt, who signed EO 7926. The area was renamed to WNWR on July 25, 1940, by Franklin D. Roosevelt who signed Proclamation No. 2416. The boundaries of the WNWR were adjusted on October 14, 1946, by Harry S. Truman who signed EO 9790. The USFWS manages the WNWR with the following objectives:

- Provide wintering habitat for migratory waterfowl consistent with the overall plan of the Mississippi Flyway Council.
- Provide optimum habitat for a wide diversity of game and nongame birds, both resident and migratory, and for mammals, reptiles, and amphibians.
- Provide optimum habitat and maximum protection for endangered and threatened species.
- Provide compatible wildlife-oriented recreation and interpretive opportunities to the public.

Additional information about WNWR can be found at the USFWS Web site, <http://www.fws.gov/wheeler/>.

2.3.3 Dewatering Units

TVA operates, in partnership with ADCNR and the USFWS, two dewatering units on Wheeler Reservoir. These areas were developed as part of a long-term approach to mosquito control and were operated primarily for that purpose until the 1970s when TVA began reducing its mosquito control efforts. Additional factors in the design, development, and operation of dewatering units included providing food and habitat for wildlife, protecting bottomland hardwoods, and making land available for farming. As TVA reduced its mosquito control activities, these other benefits began to increase in value. TVA entered into agreements with federal and state agencies for the management and cost sharing of operation and maintenance

of these areas. The continued operation of the dewatering units provides environmental and economic benefits to the region.

2.3.3.1 Rockhouse Dewatering Unit

The Rockhouse Dewatering Unit is considered part of the WNWR and is managed cooperatively by TVA and the USFWS. The Rockhouse Dewatering Unit consists of 1,150 acres; two pumps with a total pumping capacity of 70,000 gallons per minute; 21,000 linear feet of levees; and numerous internal drainage ditches. The dewatering unit is managed for wildlife and waterfowl benefits.

2.3.3.2 Whiteside Dewatering Unit

The Whiteside Dewatering Unit is located within the Swann Creek WMA and is managed cooperatively with ADCNR. The dewatering unit is managed for wildlife and waterfowl benefits. There is approximately 39,700 linear feet of levees (36,800 feet of external levee and 2,900 feet internal levees), a pump house, and a network of internal drainage ditches or canals.

2.3.4 Joe Wheeler State Park

In 1952, TVA transferred approximately 930 acres to the state of Alabama to assist in the establishment of Joe Wheeler State Park. Now, the park spans across both banks of the Tennessee River; includes large portions of First Creek and Second Creek; and property along Elk River. Joe Wheeler State Park continues to be a recreational attraction in northwest Alabama with amenities including a resort lodge, lakeside cottages, cabins, group lodge, camping, and a restaurant. The park is part of the Alabama Bass Trail and offers additional recreation activities such as a beach, boat rentals, golf course, marina, picnic area, trails, and transient boat slips. Additional information about Joe Wheeler State Park can be found the Alabama State Park's Web site, <http://www.alapark.com/JoeWheeler/>.

2.3.5 Trail of Tears National Historic Trail

Trail of Tears National Historic Trail was designated by the U.S. National Park Service (USNPS) to commemorate the 1838 historic passage of thousands of removed Indians from their homelands in the Southeast to Indian Territory in the West to what is now Oklahoma. Many people perished during this journey. There are land and water components of the trail crossing through north Alabama. The Trail's overland portion was reconstructed from historical research and some field verification; therefore TVA may not know the exact locations of overland

portions. The water component used to canoe spans the length of the Tennessee River from Guntersville Dam Reservation to Wheeler Dam Reservation. The land component of the trail may cross TVA property near Decatur, Alabama on Wheeler Reservoir.

2.3.6 Cultural Resource Management

Human occupation of northern Alabama has occurred from the Paleo-Indian to the Historic Periods. In northern Alabama, prehistoric archaeological chronology is generally broken into five broad time periods: Paleo-Indian, Archaic, Gulf Formational, Woodland, and Mississippian. Prehistoric land use and settlement patterns vary during each period, but short- and long-term habitation sites are generally located on floodplains and alluvial terraces along rivers and tributaries. Specialized campsites tend to be located on older alluvial terraces and in the uplands. European interactions with Native Americans associated with the fur trading industry in this area began in the 17th and 18th centuries. The first permanent occupation of northern Alabama by Europeans, Euro-Americans, and African Americans occurred in the late 18th century. Various excursions and temporary settlements by the British, French, and Spanish occurred prior to this period. From the 1840s to the mid-20th century, north Alabama was a major cotton-growing area. Settlement and land use of the area remained primarily rural until the mid-20th century, at which time industry and urbanization increased. Numerous archaeological sites associated with these occupations have been identified within the Wheeler watershed.

2.4 The Future Management of Reservoir Lands

Varying types of land management or conservation techniques coupled with development could occur along Wheeler Reservoir. The implementation of the NRP would drive the types of programs conducted on TVA lands set aside due to natural or sensitive resources. Business opportunity, overall economy, local incentives, and community planning practices are factors that could contribute to the types of industry locating or expanding along the reservoir. Recreation demand is driven by population levels, recreation participation rates, changing preferences for different types of recreation, and innovations in recreation equipment. Residential development is often times opportunistic; however, the lands set aside for such use are based on the types of property rights conveyed by TVA upon sale of the property. The TVA lands managed by other federal, state, or local agencies would most likely continue to do so in a similar manner.

CHAPTER 3. LAND PLANNING PROCESS

3.1 Process for Planning Land

The reservoir land management planning process involves allocation of reservoir land to seven defined land use zones, six of which are comprised of property owned by TVA in fee. The term “land use zone” refers to a descriptive set of criteria given to distinct areas of land based on location, features, and characteristics. The land use zone definitions listed in Table 3-1 are identical to those listed in the NRP. The definition of a land use zone provides a clear statement of how TVA will manage public land, and allocation of a parcel to a particular land use zone identifies that land for specific uses. Implementation of an RLMP minimizes conflicting land uses and makes it easier to handle requests for use of public land.

This draft RLMP was developed by a team of land managers and technical experts from TVA, knowledgeable about the reservoir and its resources. The planning team made land use decisions by integrating public needs, environmental conditions, economic benefits, state and federal policies, and the original congressional intent of the Wheeler Reservoir project. The process includes information from resource data, computer analysis, the public, other agencies, and knowledgeable TVA staff. This draft RLMP is consistent with the strategic direction of the NRP and the objections of the CVLP. Furthermore, the categorization and management of TVA-owned shoreline access land along Wheeler Reservoir tiers from the SMI EIS (TVA 1999).

The planning process is completed once TVA conducts an environmental review of the draft RLMP as well as reasonable alternatives, in compliance with NEPA. This process allows the public and intergovernmental partners to review TVA’s proposed allocations and provide input.

Table 3-1. Land Use Zone Definitions

Zone	Definition
Zone 1 Non-TVA Shoreland	<p>Shoreland that TVA does not own in fee. This land may be privately owned or owned by a governmental entity other than TVA. Uses of this non-TVA land may include residential, industrial, commercial, and/or agricultural. In many instances, TVA may have purchased the right to flood and/or limit structures on this non-TVA land (i.e., flowage easement). TVA’s permitting authority under Section 26a of the TVA Act applies to construction of structures on non-TVA shoreland.</p> <p>Non-TVA shoreland allocations are based on deeded rights and, therefore, will not change as a result of the lands planning process. This category is provided to assist in comprehensive evaluation of potential environmental impacts of TVA’s allocation decision.</p>

Zone	Definition
<p>Zone 2 Project Operations</p>	<p>Land currently used, or planned for future use, for TVA operations and public works projects, including:</p> <ul style="list-style-type: none"> • Land adjacent to established navigation operations — Locks, lock operations and maintenance facilities, and the navigation work boat dock and bases. • Land used for TVA power projects operations — Generation facilities, switchyards, and transmission facilities and rights-of-way. • Dam reservation land — Areas acquired and managed for the primary purpose of supporting the operation and maintenance of TVA dams and associated infrastructure; secondary uses may also include developed and dispersed recreation, maintenance facilities, miscellaneous TVA field offices, research areas, and visitor centers. • Navigation safety harbors/landings — Areas used for tying off commercial barge tows and recreational boats during adverse weather conditions or equipment malfunctions. • Navigation dayboards and beacons — Areas with structures placed on the shoreline to facilitate navigation. • Public works projects — Includes rights-of-way for public utility infrastructure, such as sewer lines, water lines, transmission lines, and major highway projects.
<p>Zone 3 Sensitive Resource Management</p>	<p>Land managed for protection and enhancement of sensitive resources. Sensitive resources, as defined by TVA, include resources protected by state or federal law or executive order and other land features/natural resources TVA considers important to the area viewscape or natural environment. Recreational natural resource activities, such as hunting, wildlife observation, and camping on undeveloped sites, may occur in this zone, but the overriding focus is protecting and enhancing the sensitive resource the site supports. Areas included are:</p> <ul style="list-style-type: none"> • TVA-designated sites with potentially significant archaeological resources. • TVA public land with sites/structures listed in or eligible for listing in the National Register of Historic Places. • Wetlands — Aquatic bed, emergent, forested, and scrub-shrub wetlands as defined by TVA. • TVA public land under easement, lease, or license to other agencies/individuals for resource protection purposes. • TVA public land fronting land owned by other agencies/individuals for resource protection purposes. • Habitat protection areas — These TVA natural areas are managed to protect populations of species identified as threatened or endangered by the U.S. Fish and Wildlife Service, state-listed species, and any unusual or exemplary biological communities/geological features. • Ecological study areas — These TVA natural areas are designated as suitable for ecological research and environmental education by a recognized authority or agency. They typically contain plant or animal populations of scientific interest or are of interest to an educational institution that would utilize the area. • Small wild areas — These TVA natural areas are managed by TVA or in cooperation with other public agencies or private conservation organizations to protect exceptional natural, scenic, or aesthetic qualities that can also support dispersed, low-impact types of outdoor recreation.

Zone	Definition
	<ul style="list-style-type: none"> • River corridor with sensitive resources present — A river corridor is a segment of a river and the adjacent land along the banks. River corridors often consist of a linear green space of TVA land serving as a buffer to tributary rivers entering a reservoir. These areas will be included in Zone 3 when identified sensitive resources are present. • Significant scenic areas — Areas designated for visual protection because of their unique vistas or particularly scenic qualities. • Champion tree site — Areas designated by TVA as sites that contain the largest known individual tree of its species in that state. The state forestry agency “Champion Tree Program” designates the tree, while TVA designates the area of the sites for those located on TVA public land. • Other sensitive ecological areas — Examples of these areas include heron rookeries, uncommon plant and animal communities, and unique cave or karst formations.
<p style="text-align: center;">Zone 4 Natural Resource Conservation</p>	<p>Land managed for the enhancement of natural resources for human use and appreciation. Management of resources is the primary focus of this zone. Appropriate activities in this zone include hunting, timber management to promote forest health, wildlife observation, and camping on undeveloped sites. Areas included are:</p> <ul style="list-style-type: none"> • TVA public land managed for wildlife or forest management projects. • TVA public land under easement, lease, or license to other agencies for wildlife or forest management purposes. • TVA public land fronting land owned by other agencies for wildlife or forest management purposes. • Dispersed recreation areas maintained for passive, dispersed recreation activities, such as hunting, hiking, bird watching, photography, primitive camping, bank fishing, and picnicking. • Shoreline conservation areas — Narrow riparian strips of vegetation between the water’s edge and TVA’s back-lying property that are managed for wildlife, water quality, or visual qualities. • Wildlife observation areas — TVA natural areas with unique concentrations of easily observed wildlife that are managed as public wildlife observation areas. • River corridor without known sensitive resources present — A river corridor is a linear green space along both stream banks of selected tributaries entering a reservoir managed for light boat access at specific sites, riverside trails, and interpretive activities. River corridors will be included in Zone 4 unless sensitive resources are present (see Zone 3). • Islands where sensitive resources are not known to be present or support existing development.
<p style="text-align: center;">Zone 5 Industrial</p>	<p>Land currently used, or planned for future use, for economic development, including businesses in distribution/processing/assembly and manufacturing. Preference will be given for businesses requiring water access. There are two primary types of uses for TVA land allocated for Industrial: (1) access for water supply or structures associated with navigation such as barge terminals, mooring cells, etc., or (2) land-based development potential.</p> <p>Areas included are:</p> <ul style="list-style-type: none"> • TVA public land under easement, lease, or license to other agencies/individuals/ entities for industrial purposes. • TVA public land fronting land owned by other agencies/individuals/entities for industrial purposes.

Zone	Definition
	<p>In some cases, TVA land allocated to industrial use would be declared surplus and sold at public auction.</p> <p>Types of development that can occur on this land are:</p> <ul style="list-style-type: none"> • Industry — Manufacturing, fabrication, and distribution/processing/assembly involving chemical, electronics, metalworking, plastics, telecommunications, transportation, and other industries. Industry does not include retail or service-based businesses. • Industrial access — Access to the waterfront by back-lying property owners across TVA property for water intakes, wastewater discharge, or conveyance of commodities (i.e., pipelines, rail, or road). Barge terminals are associated with industrial access corridors. • Barge terminal sites — Public or private facilities used for the transfer, loading, and unloading of commodities between barges and trucks, trains, storage areas, or industrial plants. • Fleeting areas — Sites used by the towing industry to switch barges between tows or barge terminals that have both offshore and onshore facilities. • Minor commercial landing — A temporary or intermittent activity that takes place without permanent improvements to the property. These sites can be used for transferring pulpwood, sand, gravel, and other natural resource commodities between barges and trucks.
<p>Zone 6 Developed Recreation</p>	<p>Land currently used, or planned for future use, for concentrated, active recreational activities that require capital improvement and maintenance of developed infrastructure, including:</p> <ul style="list-style-type: none"> • TVA public land developed for recreational purposes, such as campgrounds, day use areas, etc. • TVA public land under easement, lease, or license to other agencies/individuals/entities for developed recreational purposes. • TVA public land fronting land owned by other agencies/individuals/entities for developed recreational purposes. <p>Residential use, long-term accommodations, and/or individually owned units are not permitted on land allocated for developed recreation. Types of development that can occur on this land are:</p> <ul style="list-style-type: none"> • Public recreation — Recreation amenities developed and owned by a public agency that are open to the public. Public recreation areas may have varying levels of development, ranging from a water access site (e.g., launching ramp) to a marina facility. Facilities at public recreation areas could include playgrounds/play structures, picnic facilities, tennis courts, horseshoe areas, play courts, recreation centers, trails, greenways, natural areas, amphitheaters, food concessions (vending, snack bar), access to water for fishing and boating, swimming areas and swimming pools, launching ramps, courtesy piers, canoe access, marina facilities owned by the public entity, parking, and campgrounds. Cabins or other overnight accommodations (other than campgrounds) are only permitted if the public recreation area is operated by a state or state agency as a component of a state park system. • Public recreation areas and facilities are typically owned and operated by the federal, state, county, or local government. However, private entities may operate recreation facilities on public recreation land as concessionaires under agreement with the public entity controlling the

Zone	Definition
	<p>property. The use of the facilities may be offered free or for a fee. Time-forward, public-private partnerships where facilities are owned by private investors will not be approved on public recreation land. All structures and facilities should be owned by the public entity.</p> <ul style="list-style-type: none"> • Commercial recreation — Recreation amenities that are provided for a fee to the public intending to produce a profit for the private owner/operator. These primarily water-based facilities typically include marinas and affiliated support facilities such as stores, restaurants, campgrounds, and cabins and lodges. Where applicable, TVA will require appropriate compensation for the commercial use of the property.
<p>Zone 7 Shoreline Access</p>	<p>TVA-owned land where Section 26a applications and other land use approvals for residential shoreline alterations are considered in accordance with TVA's Shoreline Management Policy. Types of development/management that may be permitted on this land are:</p> <ul style="list-style-type: none"> • Residential water use facilities, e.g., docks, piers, launching ramps/driveways, marine railways, boathouses, enclosed storage space, and nonpotable water intakes. • Shoreline access corridors, e.g., pathways, wooden steps, walkways, or mulched paths that can include portable picnic tables and utility lines. • Shoreline stabilization, e.g., bioengineering, riprap, gabions, and retaining walls. • Shoreline vegetation management.

Prior to proposing parcel allocations, the TVA planning team reviewed the characteristics of each parcel (i.e., location and existing conditions). TVA also reviewed deeds of land previously sold to private entities to identify existing shoreline access rights. In addition, the planning team reviewed existing commitments associated with long-term contractual agreements—that is, existing leases and easements. The planning team determined the need for field reviews for uncommitted parcels based on data from the TVA Natural Heritage database; the planning team then conducted field reviews on a portion of the TVA natural areas. Land with identified sensitive resources was proposed to be placed in Zone 3 (Sensitive Resource Management). The planning team then made proposed allocations for the remaining parcels based on reservoir planning objectives and public input and compiled those allocations into the draft RLMP. When developing the draft RLMPs, the planning team identified proposed allocations of reservoir parcels to one of seven planning zones using the zone definitions listed above.

In the draft RLMP, TVA proposes to allocate land currently committed to a specific use compatible with that use unless there is an overriding need to change the use. Some committed land uses are determined by the covenants and provisions of easements, sale, and/or transfer agreements. Committed lands include the following: properties where TVA has granted

landrights (easements, leases, etc.) for specific uses, properties where TVA has previously identified resources in need of protection, Project Operations lands (transmission lines, dam reservations, public infrastructure, etc.), and lands fronting wildlife management areas. Possible reasons to change a committed land use would be to prevent or remedy ongoing adverse impacts resulting from the actions of a license or easement holder.

Approximately 22,455 acres (62 percent) of the TVA land surrounding Wheeler Reservoir are committed due to existing agreements, TVA operations or other public infrastructure projects. Agricultural licenses are not considered as committed uses because they are an interim use of TVA land.

Approximately 13,605 acres (38 percent) of the TVA land surrounding Wheeler Reservoir are uncommitted. Technical specialists collected field data on many uncommitted parcels to identify areas containing sensitive resources. Representatives from various TVA organizations met to propose how these uncommitted lands should be allocated into the seven planning zones. The location of known and potentially sensitive resources was used in determining the capability and suitability of potential uses for each parcel of land.

3.2 Wheeler Reservoir Goals and Objectives

The NRP established long-term land planning goals and objectives. While these goals and objectives were established to guide planning decisions across the Valley, these same goals and objectives can be applied when planning specific reservoirs.

Goal

TVA will strive to continue to balance shoreline development, recreational use, sensitive and natural resource management, industrial use and other land uses in a way that maintains the quality of life and other important values across the region.

Objectives

Apply a systematic method of evaluating and identifying the most suitable uses of TVA public lands using resource data, stakeholder input, suitability and capability analyses, and TVA staff input.

- Identify land use zone allocations to optimize public benefit and balance competing demands for the use of public lands.

- Identify land use zone allocations to support TVA’s broad regional resource development mission. TVA reservoir properties are managed to provide multiple public benefits, including recreation, conservation, and economic development.
- Provide a clear process by which TVA will respond to requests for use of TVA public land.
- Comply with federal regulations and executive orders.
- Enhance the protection of significant resources, including threatened and endangered species, cultural resources, wetlands, unique habitats, natural areas, water quality, and the visual character of the reservoir.
- Provide a mechanism that allows local, state, and federal infrastructure projects when the use is compatible with the zone allocation.

3.3 Parcel Allocations

TVA’s land planning process (Section 3.1) along with the goals and objectives specific to Wheeler Reservoir (Section 3.2) were used to develop this draft RLMP. Through this process, TVA proposes allocations of each reservoir parcel to one of the seven planning zones as indicated in Table 3–2.

Table 3-2. Summary of Proposed Land Use Allocations for the Draft Wheeler Reservoir Land Management Plan (Alternative B)

Allocation Designation		Number of Parcels	Acres
Zone 2	Project Operations	39	4,813.5
Zone 3	Sensitive Resource Management	42	3,656.2
Zone 4	Natural Resource Conservation	60	25,224.2
Zone 5	Industrial	15	895.6
Zone 6	Developed Recreation	35	1,312.1
Zone 7	Shoreline Access	15	143.6
Total		206	36,045.2

Figure 3-1 represents the percent of land acreage on Wheeler Reservoir that is allocated to each land use zone. A detailed description of each zone and the identification of the land zoned by each category is presented below.

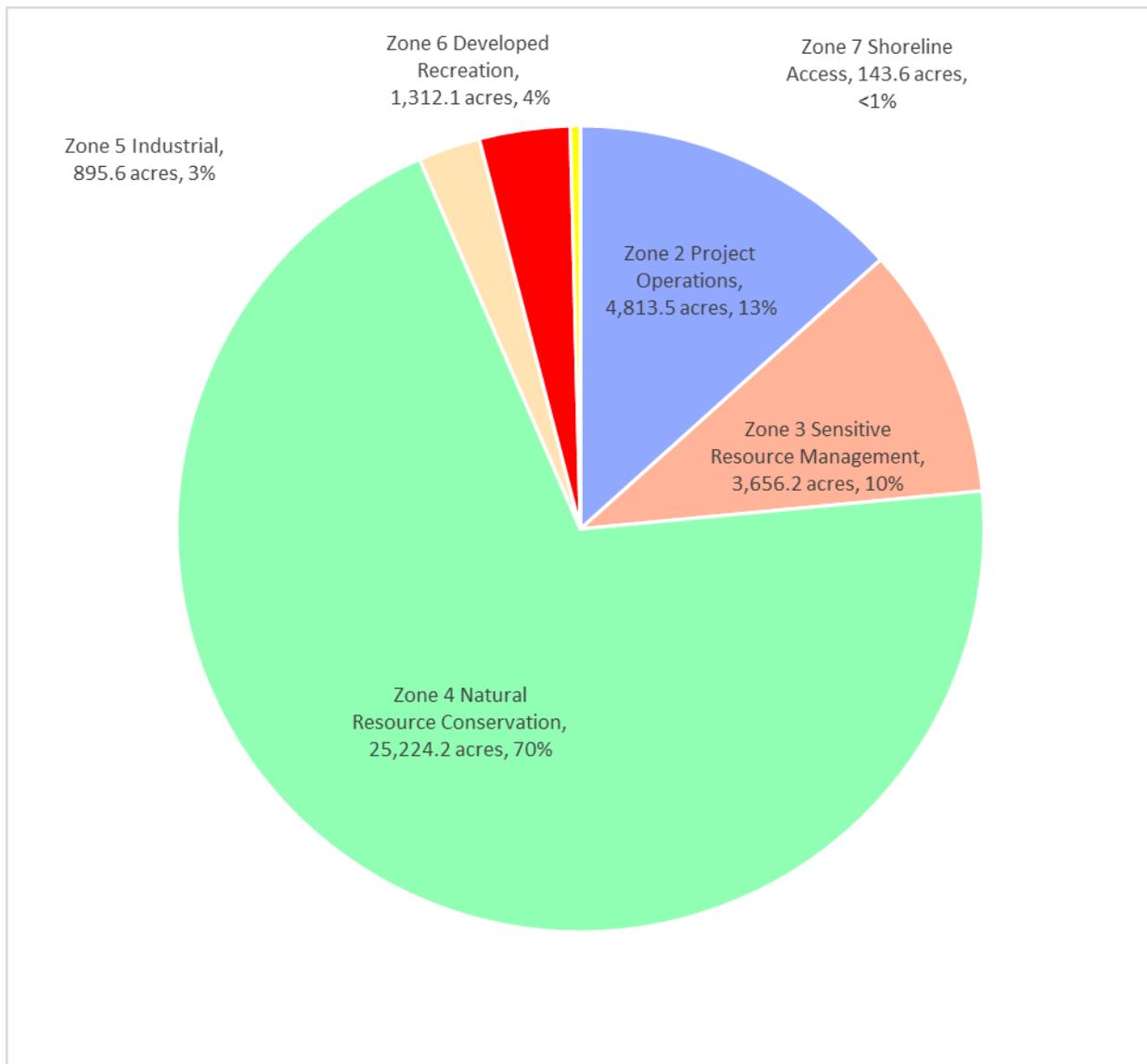


Figure 3-1. Percent of Wheeler Reservoir Acreage Allocated by Zone

- Zone 2 (Project Operations). Zone 2 encompasses all TVA land currently used for TVA operations and public works projects. In the draft RLMP, TVA proposes to allocate 4,813.5 acres to Zone 2 (Project Operations). The largest parcel that would be allocated as Zone 2 is 4,070 acres allotted for Redstone Arsenal for the use of lands by the U.S. Department of Defense for the creation and future operation of the arsenal. Other TVA land that would be allocated to this zone includes the parcel that contains the Wheeler Dam Reservation which includes the dam powerhouse and associated access roads, transmission lines and substations; navigation lock and associated access roads and mooring cells; roads; highway; boat launching ramp; and loading dock. The Wheeler

Dam is a historically significant structure and is eligible for listing on the National Register of Historic Places.

- Zone 3 (Sensitive Resource Management). Zone 3 lands are managed for protection and enhancement of sensitive resources. Sensitive resources, as defined by TVA, include resources protected by state or federal law or executive order and other land features/natural resources TVA considers important to the area viewscape or natural environment. Approximately 10 percent (3,656.2 acres) of the TVA land on Wheeler Reservoir would be allocated to Zone 3 under the draft RLMP. The parcels included in this allocation represent areas where high-quality wetland habitat, wildlife habitat, scenic buffers, or cultural and historic resources are present. The largest parcels that would be allocated to Zone 3 are Parcels 137 and 161. Land cover on these parcels consists of a diversity of forest types and wetlands which support a variety of wildlife, including game and nongame species.
- Zone 4 (Natural Resource Conservation). Lands allocated to Zone 4 are managed for the enhancement of natural resources for human use and appreciation. Management of resources is the primary focus of this zone. Appropriate activities in this zone include hunting, timber management to promote forest health, wildlife observation, and camping on undeveloped sites. Approximately 70 percent of the TVA owned land on Wheeler Reservoir would be allocated to Zone 4 (25,224.2 acres). The largest parcel allocated as Zone 4 is Parcel 88 which is the Wheeler National Wildlife Refuge (WNWR) managed by the USFWS and was established as a refuge and wildlife management area for migratory birds and other wildlife. Other large parcels that would be allocated to this zone include Parcel 81, which is managed by ADCNR as the Swan Creek wildlife management area (WMA).
- Zone 5 (Industrial). Zone 5 lands are managed for economic development including businesses in distribution/processing/assembly and light manufacturing. Approximately 3 percent of the TVA land on Wheeler Reservoir (895.6 acres) would be allocated as Zone 5. Most of these parcels are areas that currently support industrial uses or areas suitable for industrial development. For example, Parcel 204 is a large parcel where interest in potential industrial development has been expressed. An environmental review tailored to the proposed development would occur prior to any ground disturbing activities on any previously undeveloped sites that would be allocated to Zone 5.

- Zone 6 (Developed Recreation). Zone 6 lands are currently used or planned for recreational purposes, such as public launching ramps or parks. For example, Parcel 171 comprises the 420.7 acre Point Mallard Park City managed by the city of Decatur, Alabama, for public recreation. Approximately 4 percent (1,312.1 acres) of TVA-owned land around Wheeler Reservoir would be allocated to Developed Recreation.
- Zone 7 (Shoreline Access). Zone 7 lands are TVA-owned lands where Section 26a applications and other land use approvals for private shoreline alterations are considered. A very small amount of TVA land on this reservoir would be allocated to Zone 7. Requests for private shoreline alterations would be considered on parcels identified in this zone where such use was previously considered, and/or where the back-lying landowner possesses deeded rights of access, and where the proposed use would not conflict with the interests of the public.

The proposed allocations vary somewhat from the estimates for Wheeler Reservoir that TVA made when completing its CVLP in 2011. At that time, TVA anticipated that some parcels of land may be better allocated to different land use zones than those initially identified. As discussed in the Volume I of the EIS, TVA proposes to update the CVLP target ranges to incorporate the eight proposed RLMPs addressed in this EIS. Table 3–3 compares the proposed RLMP allocations and the 2011 CVLP estimates for Wheeler Reservoir.

Table 3-3. Draft Wheeler Reservoir Land Management Plan (Alternative B) and 2011 Comprehensive Valleywide Land Plan Comparison

Allocation Designation		Draft Wheeler Reservoir Land Management Plan	2011 Comprehensive Valleywide Land Plan
Zone 2	Project Operations	13%	4%
Zone 3	Sensitive Resource Management	10%	24%
Zone 4	Natural Resource Conservation	70%	65%
Zone 5	Industrial	3%	2%
Zone 6	Developed Recreation	4%	8%
Zone 7	Shoreline Access	<1%	<1%

For the following reasons, TVA would allocated a greater number of lands to all land use zones in this draft RLMP except Zone 3 (Sensitive Resource Management) and Zone 6 (Developed Recreation). Fewer acres would be allocated to Zone 3 (Sensitive Resource Management) and

Zone 6 (Developed Recreation) than estimated in the 2011 CVLP. These lands would be placed into the more appropriate designations discussed below.

Zone 2 (Project Operations)

TVA has a great number of transmission lines that cross reservoir property surrounding Wheeler Reservoir. In addition, there are large number of highways and local roads located on TVA lands with easements to the appropriate managing agency. The 2011 CVLP underestimated the amount of lands encumbered with roadways resulting in an increase of lands allocated to Zone 2 during development of the draft RLMP.

Zone 3 (Sensitive Resource Management)

The greatest change from the 2011 CVLP and this draft RLMP occurs within the Zone 3 (Sensitive Resource Management) designation, in part because TVA obtained additional information on federally and state-listed species and significant cultural resources during this planning effort. During the development of the 2011 CVLP, a greater number of lands were placed in the Zone 3 category based mainly on the premise that habitat for listed species and cultural resources could be present. However, a detailed review of the TVA Natural Heritage database and the associated land cover occurred during the planning effort. The results showed that fewer listed species had been recorded and the associated habitat features were not present as originally thought. Likewise, additional cultural resources surveys and historical data were gathered for the planning effort which resulted in fewer lands being proposed for designation as Zone 3 parcels.

Zone 4 (Natural Resource Conservation)

TVA proposes to allocate a greater number of lands to the Zone 4 category. These lands were previously allocated for Zone 3 (Sensitive Resource Management) or Zone 6 (Developed Recreation) in the 2011 CVLP.

Zone 5 (Industrial)

After reviewing the availability of public infrastructure and the presence of sensitive resources, TVA proposes to allocate one large and one mid-sized tract of land for future industrial use resulting in the increase to Zone 5 category.

Zone 6 (Developed Recreation)

The 2011 CVLP overestimated the need for Developed Recreation along Wheeler Reservoir. The planning team reviewed recreational trends coupled with impacts from recent economic changes across the Valley and proposes to allocate fewer lands placed in the Zone 6 category based on their analysis.

Zone 7 (Shoreline Access)

The 2011 CVLP correctly estimated the amount of former TVA property encumbered with shoreline access rights.

Of the 36,045.2 acres on Wheeler Reservoir, there are no proposed allocation changes to 28,940.0 acres (80.3 percent); all proposed allocation changes involve 7,105.2 acres (19.7 percent). Of the 7,105.2 acres, TVA would allocate 2,009.7 acres (28.3 percent) to reflect existing land use agreements or commitments. The remaining 5,095.5 acres (71.7 percent) involve proposed parcel allocations that are not based on existing land use agreements or commitments. See Appendix B for parcel allocation description tables.

3.4 Property Administration

As stewards of public land, TVA uses the RLMP, along with TVA policies and guidelines, to manage resources and to respond to requests for the use of TVA land. All inquiries about or requests for the use of TVA land should be made to the TVA Public Land Information Center at 800-TVA-LAND or 800-882-5263 between 8 a.m. and 6 p.m. Eastern time Monday through Friday.

Pursuant to the TVA Land Policy, TVA would consider changing a land use designation outside of the normal planning process only for the purpose of water access for industrial or commercial recreational operations on privately owned back-lying land or to implement TVA's Shoreline Management Policy.

Additionally, there are a small number of TVA parcels along Wheeler Reservoir over which the upland property owners have deeded access rights that would support a Shoreline Access classification for the TVA land, but the private owners currently are using their upland property for non-residential uses such as commercial, industrial, or developed recreation activities. TVA has zoned these parcels according to the current uses of the upland properties. However, consistent with TVA's Shoreline Management Policy, TVA would, subject to appropriate

environmental review, consider requests to revise the allocations of these parcels to Zone 7 (Shoreline Access) in the event the use of the upland property changes to residential.

Consistent with the TVA Land Policy, those parcels or portions of parcels that have become fragmented from the reservoir may be declared surplus and sold at public auction. Public works/utility projects, such as easements for pipelines, power or communication wires, roads, or other public infrastructure, proposed on TVA land that would not substantially change the zoned land use or adversely impact sensitive resources would not require an allocation change as long as such projects would be compatible with the use of the allocated zone. Proposed public works/utility projects would be subject to a project-specific environmental review. Any other requests involving a departure from the planned uses would require appropriate approval. Proposals consistent with TVA's policies and the allocated use, and otherwise acceptable to TVA, will be reviewed in accordance with NEPA and must conform to the requirements of other applicable environmental regulations and other legal authorities.

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CHAPTER 4. PARCEL DESCRIPTIONS

This chapter describes the proposed land use determined to be most suitable for each parcel of TVA land as shown on the plan maps (Appendix A, Panels 1-15). The parcel descriptions include the acreage rounded to the nearest tenth and the planned land use. Relevant data regarding the proposed land use are provided for each tract and include existing land uses, physical characteristics of the land, presence of existing private water use facilities, and any special considerations related to the future use. All existing private water use facilities with TVA permits are grandfathered, provided they are constructed in accordance with the plans approved by TVA.

Parcel 1 – (128.6 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

Wheeler Dam Reservation is on this parcel and receives heavy informal public use. Existing facility development includes the dam powerhouse and associated access roads, transmission lines and substations; navigation lock and associated access roads and mooring cells; roads; highway; boat launching ramp; and loading dock. Alabama State Route (SR) 101, which travels through rural Lawrence and Lauderdale counties, is located on this parcel and runs along the top of Wheeler Dam. Because this tract contains the Wheeler Dam reservation, it is also considered historically significant. Wheeler Dam is a historically significant structure and eligible for listing on the NRHP, and undisturbed areas have a moderate probability for subsurface cultural resources. Requests for private water use facilities would not be considered.

Table 4-1. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale and Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SW
TVA D-Stage Map Numbers	157 and 160
Stream Mile and Bank	Tennessee River miles 274 to 275B
Land Use/Land Cover	Mixture of deciduous forest, roads, and water control structures
Known Dispersed Recreation Opportunities	Bank fishing

Location Component and Public Involvement Opportunities	Parcel Specific Information
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to Lauderdale County, Alabama for a roadway • Permanent easement for Lawrence County, Alabama for a roadway • Revocable license to Alabama Department of Conservation and Natural Resources for a park • Revocable license to Bubba's Marine Construction for a barge terminal • Revocable license to East Lauderdale County Water and Fire Protection Authority for water utilities • Revocable license to Joe Wheeler Electric Membership Corporation for electric utilities • Revocable license to U.S. Army Corps of Engineers for a storage building
Potential Projects	Placement on the National Register of Historic Places
Potential Partners	None Identified

Parcel 2 – (22.7 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the right descending bank of Second Creek at the confluence of the Tennessee River. It is encumbered by revocable license agreement to Lauderdale County, Alabama for public recreation. Amenities include campground with a dump station, bathhouse, restroom building, and fishing pier. The parcel is mostly forested with access by paved road from Alabama SR 101. Two navigation mooring cells front the tract and are periodically used by towboats locking through Wheeler Dam. This parcel has a moderate probability for the presence of cultural resources, but it has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–2. Parcel Information

Location Component	Parcel Specific Information
County, State	Lauderdale, Alabama
TVA D–Stage Map Numbers	10 and 160
Stream Mile and Bank	Tennessee River mile 275R

Parcel 3 – (174.8 acres)*Proposed RLMP Allocation: Zone 6, Developed Recreation*

This parcel fronts the Joe Wheeler State Parcel and stretches along First Creek, Second Creek, and the Tennessee River. This parcel follows the 560-foot msl contour and adjoins former TVA property (Tract No. XTWR-63) transferred to the State of Alabama. This resort level State Park includes: full service marina, boat ramps, courtesy docks, golf course, restaurant, lodge, cabins campground, swimming pool, beach, trails picnic areas, restrooms and bathhouses. Additional information about Joe Wheeler State Park can be found on the state of Alabama's Web site, <http://www.alapark.com/JoeWheeler/>. There is a moderate probability for the presence of cultural resources. There is an active gray bat summer cave on this parcel. Small numbers of tricolored bats also use this cave in winter. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-3. Parcel Information

Location Component	Parcel Specific Information
County, State	Lauderdale, Alabama
TVA D-Stage Map Numbers	159, 160, and 163
Stream Mile and Bank	<ul style="list-style-type: none"> • First Creek Miles 0-3B • Second Creek Miles 0-3.3B • Tennessee River miles 275.3-278.9R

Parcel 4 – (8.9 acres)*Proposed RLMP Allocation: Zone 2, Project Operations*

This parcel includes one navigation light and two safety harbors. A safety harbor is located along the left descending bank of Second Creek at the confluence of the Tennessee River, and a TVA transmission line crosses the parcel. The Second Creek navigation light is located at Tennessee River mile 275.6R, and the other safety harbor is located along the right descending bank of First Creek at the confluence of the Tennessee River. The safety harbors are available for barges and recreational boats during adverse weather conditions or equipment malfunction. Future development of this tract will be restricted, and there is a low probability for cultural resources. Requests for private water use facilities would not be considered.

Table 4-4. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SE
TVA D-Stage Map Numbers	160
Stream Mile and Bank	Tennessee River miles 275.4, 275.6, and 277.1R
Land Use/Land Cover	deciduous forest and grassland
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	None Identified
Potential Partners	Alabama Department of Natural Resources

Parcel 5 – (11.2 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

Prior to impoundment, the road providing access to this parcel (Lambs Ferry Road) was an early ferry crossing. The actual approach and crossing are now inundated and could be interpreted with a sign. The parcel is covered by a loblolly pine plantation, and scrub-shrub wetlands are located within the small inlet. Because of the shallow nature of the lake fronting this parcel, submersed aquatic plant beds are present during some years.

The shoreline has a gentle slope to the water and was historically used by sport fishermen to launch small fishing boats. A preliminary survey of water depths at the end of the round found that the water depth was too shallow to improve lake access. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-5. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SE
TVA D-Stage Map Numbers	164
Stream Mile and Bank	Tennessee River mile 280.3R
Land Use/Land Cover	Mixed forest with primarily loblolly pine; forested and scrub-shrub wetland

Location Component and Public Involvement Opportunities	Parcel Specific Information
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 6 – (8.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

The previous RLMP stated that approximately 95 percent of the tract as prime farmland. The parcel is covered with a mixed hardwood and pine forest. Current access is provided by a dirt road located west of the TVA tract. TVA formerly purchased a legal right-of-way (ROW) for ingress and egress to this tract. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-6. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SE
TVA D-Stage Map Numbers	165
Stream Mile and Bank	Tennessee River mile 281.5R
Land Use/Land Cover	Mixed hardwood and pine forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 7 – (21.5 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This tract is composed of two island parcels, one large, approximately 21 acres, and a smaller parcel approximately 0.3 acre in size. The islands were combined because of their proximity and land characteristics.

Soil interpretation of both islands revealed them to be 100 percent prime farmland. The larger island supports mixed hardwood and loblolly pine forest. Historically, scrub-shrub wetlands were widespread along the northern edge of the larger island. Both islands offer excellent wildlife habitat for migratory birds as resting and feeding areas. Even though the islands are relatively close to a developed residential shoreline, human contact with this habitat is infrequent. This embayment is a prime spawning habitat and as a fisheries nursery area for largemouth bass and sunfish. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-7. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SE
TVA D-Stage Map Numbers	165
Stream Mile and Bank	Tennessee River mile 282R
Land Use/Land Cover	Mixed hardwood/pine forest dominated with loblolly pine; scrub-shrub wetlands historically widespread along northern edge of island
Known Dispersed Recreation Opportunities	Hunting, fishing, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Continue efforts to reestablish and protect wetland communities along the northern portion of island • Systematic survey for historic properties
Potential Partners	Adjacent private property owners

Parcel 8 – (4.4 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This tract is composed of two island parcels, one large (approximately 4 acres) and one small (approximately 0.1 acre). The islands were combined as one tract because of significant cultural resources and documented historical events which took place prior to impoundment of the reservoir. The Chickasaws established a major village at the mouth of the Elk River in the 18th century to establish an eastern boundary against Cherokee advances. The Village remained until about 1817 when the Chickasaws lost this land through treaties which allowed White settlement. Both tracts will help provide visual buffers against approaching residential development. The larger island is densely covered with mixed pine and hardwood trees. During lower pool elevations the smaller parcel becomes a peninsula. Both parcels are within the 100-year flood elevation. The islands also provide protection for wintering gulls, as well as a feeding and resting habitat for migratory diving ducks. Sport fishing for largemouth bass is also highlighted at this location. Numerous federally and state-listed mussel species were present at the mouth of the Elk River prior to impoundment, but no existing populations are currently known. No existing shoreline improvements are currently present, and future requests for private shoreline alterations would not be considered.

Table 4-8. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SE
TVA D-Stage Map Numbers	165
Stream Mile and Bank	Tennessee River mile 284.3R
Land Use/Land Cover	Hardwood forest with sparse understory
Known Dispersed Recreation Opportunities	Fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Continue efforts to prevent the reestablishment of feral animals on the island • Establishment of desired understory plants • Systematic survey for historic properties
Potential Partners	None identified

Parcel 9 – (1.2 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located between Dell’s Vista and Twin Rivers subdivisions and along the right descending bank of the Elk River near its confluence with the Tennessee River. The area has been improved with an access road, parking lot and boat ramp. This parcel has a low probability for the presence of cultural resources, but it has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–9. Parcel Information

Location Component	Parcel Specific Information
County, State	Lauderdale, Alabama
TVA D–Stage Map Numbers	165
Stream Mile and Bank	Elk River mile 0.5R

Parcel 10 – (9.2 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is located along the right descending bank of Elk River. The tract extends between TVA markers 165–161A to 164–187A. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. There is a cave with two records of federally listed bat species on this parcel. However, this cave is under water and no longer supports bats. Hidden Valley Shores and Twin Rivers Estates subdivisions are located on the back-lying private property. TVA acquisition maps and cemetery database indicate the presence of the Watkins cemetery also located on the back-lying property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–10. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	53–SE
TVA D–Stage Map Numbers	164 and 165
Stream Mile and Bank	Elk River mile 1R
Land Use/Land Cover	Deciduous forest and maintained lawns

Location Component and Public Involvement Opportunities	Parcel Specific Information
Fronts Former TVA Tract (s)	XWR-438, XWR-439, and XWR-440
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 11 – (91.3 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located on the right bank of the Elk River and is currently used for dispersed recreation activities. Its access and topography make it suitable for a variety of developed recreational facilities and activities. The land cover is dominated by upland mixed hardwood forest, eastern broadleaf deciduous forest, and palustrine forest along the creek beds. Additionally, 5.2 acres of wetlands have been delineated on the parcel. This parcel has a low probability for the presence of cultural resources. This parcel has been surveyed for historic properties. Two historic archaeological sites were identified, but both are not eligible for the National Register of Historic Places.

This parcel was the subject of an environmental assessment, and additional information about the parcel can be found on TVA’s Web page, <http://www.tva.gov/environment/reports/elkriver/index.htm>. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–11. Parcel Information

Location Component	Parcel Specific Information
County, State	Lauderdale, Alabama
TVA D-Stage Map Numbers	165
Stream Mile and Bank	Elk River mile 2R

Parcel 12 – (38.7 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel consists of a contiguous tract of land lying along the right descending bank of Elk River mile 2. The entire tract is currently covered with loblolly pine. The plantation was established in the late 1930s and is approaching large saw timber size. Access to the tract is available across private land. The town of Rogersville has developed an industrial park on private land between the town and the river. The town of Rogersville has historically requested that this parcel be allotted to preserve water access for industrial development and attract economic prospects to this region.

Until this tract is selected for development, TVA will continue management of upland wildlife game species. The shoreline and small cove near Barnett Road provide aquatic bed wetland habitat for a wood duck production, roosting, and staging area. The riparian zone also provides habitat for mammals that use aquatic habitats. There is a high probability for the presence of cultural resources, and potential projects would need a survey for historic properties.

Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4–12. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	53–SE
TVA D–Stage Map Numbers	164
Stream Mile and Bank	Elk River mile 2R
Land Use/Land Cover	Deciduous forest and wetlands
Current Agreements/Commitments	None identified

Parcel 13 – (11.1 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel consists of two noncontiguous tracts located along the right descending bank of Elk River. The tract extends among TVA markers 164-193AA to 164-192A and 164-191B to

169-191. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. The northwest portion of the tract has a high probability for the presence of cultural resources. Elk River View and Pinedale Homesites subdivisions are located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4-13. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SE
TVA D-Stage Map Numbers	164 and 169
Stream Mile and Bank	Elk River mile 2.8R
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR-441 and XWR-442
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 14 – (5.3 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the right descending bank of the Elk River at approximately mile 2.3. Locally known as Barnett’s Landing, the parcel is encumbered by a revocable license to ADCNR for public recreation. Amenities include a boat ramp and parking area. This parcel has a high probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-14. Parcel Information

Location Component	Parcel Specific Information
County, State	Lauderdale, Alabama
TVA D-Stage Map Numbers	164
Stream Mile and Bank	Elk River mile 2.3R

Parcel 15 – (10.5 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is located along the right descending bank of Elk River. The tract extends among TVA markers 169-201 to corner marker on 560-foot contour lying east of TVA property corner 170. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. There is a moderate probability for the presence of cultural resources on undisturbed areas. Elk River Park Subdivision is located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–15. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	168 and 169
Stream Mile and Bank	Elk River mile 4.5R
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR–441 and XWR–442
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 16 – (20.8 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located on the northwest shore of Anderson Creek and its confluence with Elk River and along the southern shore of Elk River near Elk River Park subdivision. This parcel follows the 560-foot msl contour and adjoins former TVA property (Tract No. XTWR-3) transferred to the State of Alabama and (Tract No. XWR-535) sold to the Girls Scouts of America for Camp Anderel.

The portion of the parcel that fronts Tract No. XTWR-3 can be accessed by U.S. Highway 72, and amenities include a boat ramp and parking area. The boat ramp receives heavy use by the public. The portion of the parcel that fronts Tract No. XWR-535 can be accessed by Lauderdale

CR 635. The back-lying property (Tract No. XWR-535) was operated as Camp Anderel until August 2012, and development of this property would be subject to deed restrictions for private recreation.

The parcel has a moderate probability for the presence of cultural resources, but it has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–16. Parcel Information

Location Component	Parcel Specific Information
County, State	Lauderdale, Alabama
TVA D–Stage Map Numbers	168 and 169
Stream Mile and Bank	Elk River mile 5.5R

Parcel 17 – (1.1 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located in the Elk River embayment, a tributary to Tennessee River mile 284.3R, and is encumbered by a ROW for U.S. Highway 72. Requests for private water use facilities would not be considered.

Table 4–17. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale and Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	169
Stream Mile and Bank	Elk River mile 4.9B
Land Use/Land Cover	Grassland and road right–of–way
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to Lauderdale County, Alabama for a road right–of–way • Permanent easement to the State of Alabama for a park
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • Lauderdale County, Alabama • State of Alabama

Parcel 18 – (0.9 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

These two small island tracts are located on within Anderson Creek. The parcel is a hardwood and shrub mixture and provides wetland habitat for both waterfowl and mammals that use aquatic habitats. This tract is used largely for small game hunting. The island is subjected to wave action and rapid erosion forces. Vegetation is regularly inundated during flood events, and the low profile of the island places it within the 100-year flood elevation. The previous RLMP stated this parcel’s soil is 100 percent prime farmland. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–18. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	168
Stream Mile and Bank	Elk River mile 5.6R
Land Use/Land Cover	Hardwood–shrub mixture and vegetation is regularly inundated during flood events
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Systematic survey for historic properties
Potential Partners	None identified

Parcel 19 – (1.8 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is located along the right descending bank of Anderson Creek. The tract extends between TVA markers 168-205A to 168-215A. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. There is a moderate probability for the presence of cultural resources in undisturbed areas. Anderson Creek Estates Subdivision is located on the back-lying private property. Water use facilities have been

constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–19. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	168
Stream Mile and Bank	Anderson Creek Mile 1.7R
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR–447
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 20 – (23.1 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the right descending bank of Anderson Creek. Lauderdale County Road (CR) 70 divides the tract east to west and provides access to the property. The tract is covered by timber, including hardwoods and loblolly pine. The state-listed Muhly grass has been found on this parcel. Soils in this area are classified as moderately productive for forestry applications but are also highly erodible. Land uses adjacent to the tract include agriculture, woodland, and residential. This wooded tract provides a visual buffer, screening the county road and shoreline from residential development on either side. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–20. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	168
Stream Mile and Bank	Anderson Creek Mile 1.5R
Land Use/Land Cover	Hardwood forest, loblolly pine, and rock bluff

Location Component and Public Involvement Opportunities	Parcel Specific Information
Known Dispersed Recreation Opportunities	Bank fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 21 – (1.6 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located in the Anderson Creek embayment, a tributary to Elk River mile 5.5R, and is encumbered by a ROW for Lauderdale CR 70. Requests for private water use facilities would not be considered.

Table 4–21. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	168
Stream Mile and Bank	Anderson Creek Mile 2.1B
Land Use/Land Cover	Road right-of-way
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	Permanent easement to the State of Alabama for a road ROW
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • Lauderdale County, Alabama • State of Alabama

Parcel 22 – (3.9 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the left descending bank of Anderson Creek and follows the 560 foot msl contour. This parcel and is encumbered by a permanent easement and adjoins former TVA property (Tract No. XTWR-5) transferred to the State of Alabama for public recreation purposes. The parcel is accessed is by Lauderdale CR 70. Amenities include a boat ramp, access road, and parking lot. Undeveloped portions of this parcel have a high probability for the presence of cultural resources and have not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–22. Parcel Information

Location Component	Parcel Specific Information
County, State	Lauderdale, Alabama
TVA D–Stage Map Numbers	168
Stream Mile and Bank	Elk River mile 5.7L

Parcel 23 – (29.5 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel consists of two noncontiguous tracts that are located along the left descending bank of Anderson Creek. The tract extends among TVA markers 168-210A to 168-211 and 150-175 to 150-176A. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. There is a high probability for the presence of cultural resources in undisturbed areas. Oakfair Riverview Estates, Anderson Creek, Elk Shores, and Holland Lake View Shores subdivisions are located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–23. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	168
Stream Mile and Bank	Anderson Creek Mile 1.5L
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR–202, XWR–448, XWR–449, and XWR–450
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 24 – (30.5 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This tract narrow 1.5-mile strip of bluff and four adjacent islands is known as the Narrow Bluff TVA habitat protection area (HPA). The parcel is primarily bluff with steep hollows. Hardwood timber exists where the terrain will allow, and the potential for soil erosion is high across the entire tract. The state-listed Alabama snow-wreath (*Neviusia alabamensis*) has been known to occur on the parcel. In addition, the state-listed paddlefish (*Polyodon spatula*) and silver redhorse (*Moxostoma anisurum*) have been found in the adjacent reservoir.

Land uses on adjacent parcels include industry, agriculture, and residential. This strip is quite scenic because of the high bluffs that rise immediately from Elk River. The navigation channel is immediately adjacent to the shoreline along this section of the river, and navigation restrictions are in effect on the parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–24. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lauderdale and Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	150
Stream Mile and Bank	Elk River mile 7.0R

Location Component and Public Involvement Opportunities	Parcel Specific Information
Land Use/Land Cover	Rock bluff and shrub forest with invasion of Japanese honeysuckle and tree-of-heaven
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Protect populations of Alabama snow-wreath • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 25 – (3.7 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Maple Swamp Branch and Dry Branch, tributaries to Elk River mile 8.7R, and is encumbered by a ROW for Lentzville Road. Requests for private water use facilities would not be considered.

Table 4–25. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	150
Stream Mile and Bank	Elk River mile 8.7R
Land Use/Land Cover	Road right-of-way
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	Permanent easement to Limestone County, Alabama for a road right-of-way
Potential Projects	None identified
Potential Partners	Limestone County, Alabama

Parcel 26 – (8.4 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This tract is a long, narrow strip centered among Maple Swamp, Dry Branch embayment and Lentzville Road. The land cover consists of a mixed forest dominated with loblolly pine. Small section with rock bluff outcrops and scrub-shrub wetlands along the shoreline are present. The state-listed silver redhorse (*Moxostoma anisurum*) has been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–26. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	150
Stream Mile and Bank	Elk River mile 8.8R
Land Use/Land Cover	Mixed forest dominated with loblolly pine, rock bluff outcrops, and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 27 – (11.7 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Big Creek and Elk River. This parcel is encumbered by a ROW for Elk River Mills Road, and there is a moderate probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4–27. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW and 60–SE
TVA D–Stage Map Numbers	151
Stream Mile and Bank	Elk River mile 14–14.6B
Land Use/Land Cover	Road right-of-way
Known Dispersed Recreation Opportunities	bank fishing
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to Limestone County, Alabama for a road right-of-way • Permanent easement to Limestone County, Alabama Board of Revenue for a road right-of-way
Potential Projects	Survey for historic properties
Potential Partners	<ul style="list-style-type: none"> • Limestone County, Alabama • State of Alabama

Parcel 28 – (10.0 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This tract is a narrow parcel on the right bank of Elk River directly downstream of Elk River Mills Bridge. The land cover is mixed hardwood and pine forest with scrub-shrub wetlands located along the shoreline. Informal recreation also occurs on this parcel. The area is subject to flooding, and the soils are classed as highly erodible. Extensive mudflats are present along the shoreline during the winter months. The state-listed warty rocksnail (*Lithasia lima*) has historically been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–28. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SE
TVA D–Stage Map Numbers	151

Location Component and Public Involvement Opportunities	Parcel Specific Information
Stream Mile and Bank	Elk River mile 14.5R
Land Use/Land Cover	Mixed hardwood and pine forest with scrub-shrub wetlands along the shoreline
Known Dispersed Recreation Opportunities	Bank fishing, primitive camping, and wildlife observation
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Systematic survey for historic properties • Deep testing survey for historic properties
Potential Partners	None identified

Parcel 29 – (26.8 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the right descending bank of the Elk River lying between Elk River Mills Road and Sugar Creek Estates subdivision. The property follows the 560-foot msl contour. This parcel and is encumbered by a permanent easement and adjoins former TVA property (Tract No. XTWR-80) transferred to the State of Alabama for public recreation purposes. The parcel is accessed is by Elk River Mills Road. Although no improvements are present, the parcel is used for dispersed recreation activities including bank fishing and primitive camping.

Parcel size, access, topography and location make it ideal for the development of future public recreation amenities. This parcel has a high probability for the presence of cultural resources; however, only a small portion of this parcel has been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–29. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D–Stage Map Numbers	151
Stream Mile and Bank	Elk River mile 15R

Parcel 30 – (15.1 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This tract is comprised of a series of small and moderate-sized islands located between Elk River miles 15 and 17.3. Forests and shrubs dominate islands; however, flooding continuously changes the size, shape, and vegetative cover of the islands. Extensive shallow water, emergent wetlands are present around islands. These islands provide excellent cover and habitat for waterfowl and wetland species. The state-listed pocketbook (*Lampsilis ovata*) and silver redhorse (*Moxostoma anisurum*) have been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–30. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SE
TVA D–Stage Map Numbers	153
Stream Mile and Bank	Elk River miles 15–17.3B
Land Use/Land Cover	Forest, shrub, and emergent wetlands
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Survey for historic properties
Potential Partners	None identified

Parcel 31 – (16.4 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This tract is comprised of a series of small islands located in the Sugar Creek embayment of Elk River. Forests and shrubs dominate islands; however, flooding continuously changes the size, shape, and vegetative cover of the islands. Extensive shallow water, emergent wetlands are present around islands. These islands provide excellent cover and habitat for waterfowl and

wetland species. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-31. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60-SE
TVA D-Stage Map Numbers	153
Stream Mile and Bank	Sugar Creek Miles 0.2-2.2B
Land Use/Land Cover	Forest, shrub, and emergent wetlands
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Survey for historic properties
Potential Partners	None identified

Parcel 32 – (42.5 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This bottom land tract consists of high quality forested wetlands. The parcel provides excellent cover and habitat for waterfowl and wetland species. Seven state-listed aquatic species have been recorded within this parcel, the redline darter (*Etheostoma rufilineatum*), Silver shiner (*Notropis photogenis*), Stargazing minnow (*Phenacobius uranops*), silver redhorse (*Moxostoma anisurum*), bigeye chub (*Hybopsis amblops*), rosyface shiner (*Notropis micropteryx*), and fantail darter (*Etheostoma flabellare*). The state-listed silver redhorse (*Moxostoma anisurum*) has been found in the adjacent reservoir. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-32. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60-NW
TVA D-Stage Map Numbers	153

Location Component and Public Involvement Opportunities	Parcel Specific Information
Stream Mile and Bank	Sugar Creek Mile 2.5R
Land Use/Land Cover	Forested wetlands
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 33 – (7.6 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel consists of two small tracts of land located at the uppermost portion of the Sugar Creek embayment. These parcels lie on either bank of Sugar Creek and west of Cotton Belt Road, which provides public access. The previous RLMP classified this low and flat parcel as 100 percent prime farmland. All of the tract is located within the floodplain and is inundated during major flood events. The land cover consists of riparian zone forest with some wetland characteristics. Primarily shrub vegetation is located adjacent to the neighboring private property.

The state-listed redline darter (*Etheostoma rufilineatum*), Silver shiner (*Notropis photogenis*), Stargazing minnow (*Phenacobius uranops*), silver redhorse (*Moxostoma anisurum*), bigeye chub (*Hybopsis amblops*), rosyface shiner (*Notropis micropteryx*) and fantail darter (*Etheostoma flabellare*) occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water-use facilities would not be considered.

Table 4–33. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NW
TVA D–Stage Map Numbers	155
Stream Mile and Bank	Sugar Creek Mile 3B

Location Component and Public Involvement Opportunities	Parcel Specific Information
Land Use/Land Cover	Grassland, riparian zone forest with wetland characteristics, and shrubs
Known Dispersed Recreation Opportunities	Bank fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	Survey for historic properties
Potential Partners	None identified

Parcel 34 – (114.0 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This fairly large tract is located at the upper end of Sugar Creek embayment. The entire tract lies within the 100 year flood elevation; however, for the most part, the soils are not particularly erodible. The parcel is dominated by extensive forested wetlands. Shallow water emergent and scrub-shrub wetlands are located near the southern portion of the parcel. The parcel provides beneficial habitat for upland game and wetland species, and a high amount of big and small game hunting occurs here. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–34. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SE
TVA D–Stage Map Numbers	153
Stream Mile and Bank	Sugar Creek Mile 2.5L
Land Use/Land Cover	Forested wetlands
Known Dispersed Recreation Opportunities	Hunting
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 35 – (195.4 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This parcel includes three noncontiguous tracts of land and two islands. Most of this parcel is being managed for perennial hay production and wildlife management while preserving its cultural resources. Forested riparian buffers have also been created. There is also an abundance of emergent and scrub-shrub wetlands. The state-listed silver redhorse (*Moxostoma anisurum*) has been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel, yet. Artificial roosting structures were installed on this parcel in 2016 in the hopes of providing permanent summer roosting habitat for Indiana bat. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–35. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NE
TVA D–Stage Map Numbers	155
Stream Mile and Bank	Elk River mile 19.1R
Land Use/Land Cover	Agricultural with wildlife strips; forested riparian buffers; and emergent and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	Term agricultural license to a private individual for perennial hay production and maintenance of wildlife habitat areas
Potential Projects	Survey for historic properties
Potential Partners	Licensee

Parcel 36 – (2.7 acres)*Proposed RLMP Allocation: Zone 2, Project Operations*

This parcel is located along Elk River mile 19R, and is encumbered by a ROW for Alabama SR 90. Requests for private water use facilities would not be considered.

Table 4–36. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NE
TVA D–Stage Map Numbers	154 and 155
Stream Mile and Bank	Elk River mile 19R
Land Use/Land Cover	Road ROW
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	Permanent easement to Limestone County, Alabama for a road ROW
Potential Projects	None identified
Potential Partners	Limestone County, Alabama

Parcel 37 – (30.5 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located on the north side of Alabama SR 99 (Buck Island Road) and west of Elk River Bridge. The parcel is being managed for perennial hay production. Bottomland hardwood forest, wetlands, and early successional hardwood shrubs are also present. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–37. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NE
TVA D–Stage Map Numbers	155
Stream Mile and Bank	Elk River mile 19.1R
Land Use/Land Cover	Agricultural, bottomland hardwood forest, and early succession hardwood scrubs
Known Dispersed Recreation Opportunities	Hunting and primitive camping
Current Agreements/Commitments	Term agricultural license to a private individual for perennial hay production

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	Licensee

Parcel 38 – (4.5 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This small tract is located on the right bank of the Elk River downstream and adjacent to the Alabama SR 99 Bridge. Land cover consists of mixed hardwoods, scrub shrub, and wetlands. Soils here are classed as potentially, highly erodible. The vegetative understory is continuously altered by flood events. The tract is being used periodically for informal recreational activities, such as bank fishing. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–38. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NE
TVA D–Stage Map Numbers	154
Stream Mile and Bank	Elk River mile 20.3R
Land Use/Land Cover	Hardwood forest
Known Dispersed Recreation Opportunities	Fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 39 – (4.4 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Elk River mile 20.5R, and is encumbered by a ROW for Alabama SR 90. Requests for private water use facilities would not be considered.

Table 4–39. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NE
TVA D–Stage Map Numbers	154
Stream Mile and Bank	Elk River mile 20.5R
Land Use/Land Cover	Road right-of-way
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	Permanent easements to Limestone County, Alabama for a road right-of-way
Potential Projects	None identified
Potential Partners	Limestone County, Alabama

Parcel 40 – (6.5 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the right descending bank of Elk River spanning from the Alabama SR 90 Bridge (Buck Island Bridge) at river mile 20.5 to river mile 21. The parcel adjoins two pieces of former TVA property, Tract Nos. XWR-257 and XTWR-9. Tract No. XWR-257 was sold at public auction, and the rights to construct private water use facilities were not conveyed on the portion of Tract No. XWR-257 adjoining this parcel. Tract No. XTWR-9 was transferred to the State of Alabama to provide for public boat access. Amenities on the parcel include a boat ramp, courtesy pier, and parking lot. Undisturbed portions of this parcel have a moderate probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–40. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D–Stage Map Numbers	154
Stream Mile and Bank	Elk River mile 20.5–21R

Parcel 41 – (7.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is made up of three small islands located near Elk River mile 21. The land cover consists of hardwood forest and scrub-shrub wetlands. The vegetative understory is continuously altered by flood events. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–41. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NE
TVA D–Stage Map Numbers	154
Stream Mile and Bank	Elk River mile 21B
Land Use/Land Cover	Hardwood forest and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	Systematic survey for historic properties
Potential Partners	None identified

Parcel 42 – (84.0 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the right descending bank of Elk River mile 21. The land cover is being managed for perennial hay production with forested wetland riparian buffers. There are some emergent wetlands present within the agricultural field. The activities associated with hay

production are used in such a way to maintain the wetland vegetation stage as emergent. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-42. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60-NE
TVA D-Stage Map Numbers	154
Stream Mile and Bank	Elk River mile 23R
Land Use/Land Cover	Agriculture with forested wetland riparian wetland buffers
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	Term agricultural license to a private individual for perennial hay production
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	Licensee

Parcel 43 – (206.5 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This is the location of the old Elk River Fish Hatchery. The parcel is located on the right descending bank of the Elk River, between river miles 22 and 24.5. The parcel is accessible by water and a secondary road from Buck Island Road (Alabama SR 99) some 1.5 miles to the west. The municipal water intake for the city of Athens is located on the left descending bank of the Elk River directly across from this tract. The land cover consists of bottomland hardwood forest, early successional scrub forest, and forested and scrub-shrub wetlands. Signs of frequent flooding are evident.

When Wheeler Dam was nearing completion, there was some concern among fisheries biologists that large reservoirs in the South would, in a period of a few years, become "biological deserts" requiring constant restocking of several fish species to maintain biological diversity and

provide a sport fishery. With the cooperation of the United States Bureau of Fisheries, TVA developed the Elk River hatchery to meet this anticipated need. On approximately 150 acres within a wide bend of the river, earthen dikes were constructed dividing the flat lowland into a grid of 77 rectangular containment basins, each with its own water control valve. A central mechanism regulated the inflow of water from the Elk River. Within a year of completion of the project, however, it was closed. The underlying strata and soil type of the location made the enclosures leaky and hard to maintain, and the river overflowed regularly, inundating the rearing ponds. It soon became apparent, moreover, that aquatic life in the reservoir, including fish species, could maintain itself very well without constant stocking, and the project was abandoned.

The tract is subject to grazing by cattle entering from surrounding farmlands. Attempts by adjacent landowners to fence the property lines have been frustrated by periodic flooding, a problem which also limits several other uses for the land. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-43. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60-NE
TVA D-Stage Map Numbers	156
Stream Mile and Bank	Elk River mile 23.5R
Land Use/Land Cover	Bottomland hardwood forest, early successional scrub forest, and forested and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Evaluate the historic significance of the Elk River fish hatchery
Potential Partners	None identified

Parcel 44 – (70.8 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located on the left bank of the Elk River at river mile 24 and directly across from the Elk River fish hatchery. The property is being managed for row crop production. There is also bottomland forest, riparian forest along Sulphur Creek, and forested wetlands. Approximately 90 percent of the acreage is classed as prime farmland; approximately 10 percent has high soil erosion potential. The state-listed redline darter (*Etheostoma rufilineatum*), stonecat (*Noturus flavus*), and bigeye chub (*Hybopsis amblops*) occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-44. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60-NE
TVA D-Stage Map Numbers	156
Stream Mile and Bank	Elk River mile 23.9L
Land Use/Land Cover	Agriculture, bottomland hardwood forest, riparian forest, and forested wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	Term agricultural license to a private individual for row crop (corn, soybean, and wheat) production
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	Licensee

Parcel 45 – (52.2 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel consists of two noncontiguous tracts of land and one island. The land cover consists of bottomland hardwood forest, early successional scrub vegetation, and forested and scrub-shrub wetlands. The state-listed silver redhorse (*Moxostoma anisurum*) has been found in the

adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-45. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60-NE
TVA D-Stage Map Numbers	154
Stream Mile and Bank	Elk River mile 22L
Land Use/Land Cover	Bottomland hardwood forest, early successional scrub forest, and forested and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 46 – (117.2 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the left descending bank of Elk River and adjacent to Alabama SR 99 bridge. This parcel has historically been encumbered by a license agreement with the State of Alabama for a wildlife management area. When the license term concluded, hardwood saplings were planted throughout the parcel. The land cover consists of the planted hardwoods with hardwood forested riparian buffers. Scrub-shrub and emergent wetlands are also present. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–46. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NE
TVA D–Stage Map Numbers	154
Stream Mile and Bank	Elk River mile 20.5L
Land Use/Land Cover	Early succession scrub (planted hardwoods) with hardwood forested riparian buffers; and scrub-shrub and emergent wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 47 – (317.2 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This large parcel is situated on the left descending bank of the Elk River and approximately one mile downstream of Alabama S. R. 99 (Buck Island) bridge. This parcel was encumbered by a license agreement for agricultural purposes until 1990. Since that time, it has been managed for wildlife habitat. The land cover includes planted hardwoods with hardwood forested riparian buffers. Scrub-shrub wetlands are also present. The state-listed silver redhorse (*Moxostoma anisurum*) has been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–47. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–NE
TVA D–Stage Map Numbers	153 and 155
Stream Mile and Bank	Elk River mile 18.5L
Land Use/Land Cover	Bottomland hardwood forest, early successional scrub forest, and forested and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 48 – (5.3 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the left descending bank of the Elk River at mile 17.1 and situated at the end of Grigsby Ferry Road. The property provides the public access to the reservoir during periods of full pool. Amenities include a parking lot and unimproved boat ramp. There is a moderate probability for the presence of cultural resources; however, this parcel has not been surveyed for historic properties.

The parcel is not encumbered with a contractual agreement. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–48. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D–Stage Map Numbers	154
Stream Mile and Bank	Elk River mile 17.1L

Parcel 49 – (3.7 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This narrow parcel is located along the left descending bank of the Elk River at mile 14.7. Elk River Mills Road bisects the property. Upstream of Elk River Mills Road, the property follows the 560-foot msl contour, and the downstream portion follows Elk River Mills Road. Most of the parcel is located within the Limestone County’s road ROW and adjoins former TVA property (Tract No. XWR-542). Amenities include a boat ramp, courtesy piers, and a parking lot.

There is a moderate probability for the presence of cultural resources in the undeveloped portions of this parcel; however, this parcel has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-49. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D-Stage Map Numbers	151
Stream Mile and Bank	Elk River mile 14.7L

Parcel 50 – (137.6 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel surrounds a large portion of the Big Creek embayment. The land cover includes both upland and bottomland hardwood forests. Scrub-shrub wetlands are also located in the upper reaches of the Big Creek embayment. The topography is also quite diverse, ranging from steep, hilly terrain to low wetlands. Soils over most of the area are classified as highly erodible. Some informal recreation is also occurring. The state-listed stargazing minnow (*Phenacobius uranops*), bigeye chub (*Hybopsis amblops*) and redline darter (*Etheostoma rufilineatum*) have been found in Big Creek adjacent to parcel. In addition, the state-listed warty rocksnail (*Lithasia lima*) historically recorded in Elk River adjacent to parcel. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–50. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SE
TVA D–Stage Map Numbers	151
Stream Mile and Bank	Elk River mile 14.5L
Land Use/Land Cover	Scrub-shrub wetlands and upland and bottomland hardwood forest
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 51 – (13.3 acres)*Proposed RLMP Allocation: Zone 7, Shoreline Access*

This parcel consists of two noncontiguous tracts of land located along the left descending bank of the Elk River. The tract extends among TVA markers 150-170 to 150-186 and TVA markers 150-185 to 152-146. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. There is a moderate probability for the presence of cultural resources. Stewarts Ferry Subdivision and Blue Springs Park Subdivision are located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–51. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	150
Stream Mile and Bank	Elk River mile 9.8L
Land Use/Land Cover	Deciduous forest and maintained lawns

Location Component and Public Involvement Opportunities	Parcel Specific Information
Fronts Former TVA Tract (s)	XWR-224, XWR-225, XWR-456, XWR-457, and XWR-458
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 52 – (5.7 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This small and rectangular tract is **located** along the left descending bank of the Elk River near river mile 9 and lies between Elk River View and Stewart Ferry subdivisions. The parcel is oriented northeast/southwest at a right angle to the shoreline and encompasses most of a deep hollow filled with large hardwoods. A gravel road running north from U.S. Route 72 provides public access and was used in the past to launch small boats at the mouth of the hollow. Floods have deposited logs and other debris on the old launch site, and access is now difficult. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4-52. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60-SW
TVA D-Stage Map Numbers	169
Stream Mile and Bank	Elk River mile 5.3L
Land Use/Land Cover	Limestone bluff with hardwood forests
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 53 – (7.5 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is land located along the left descending bank of Elk River. The tract extends between TVA markers 150-183 to 169-182. This parcel is approximately 600 feet long and the depth varies from 50 feet to 150 feet of TVA property at the northern end. The current land use is deciduous forest and maintained lawns. Hampton Campsites North and South Subdivision are located on the back-lying private property. There is a moderate probability for the presence of cultural resources, and this parcel has not been previously surveyed for cultural resources. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4-53. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60-SW
TVA D-Stage Map Numbers	168
Stream Mile and Bank	Elk River mile 5.8L
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR-206
Structure Profile	Varies
Current Agreements/Commitments	Approved water use facilities

Parcel 54 – (0.8 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This small tract is located along the left descending bank of the Elk River. The terrain consists of a limestone bluff. There is a hardwood forest located on the upper platform located on the limestone bluff. Scrub hardwoods are found along the bluff. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–54. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	169
Stream Mile and Bank	Elk River mile 5.3L
Land Use/Land Cover	Limestone bluff with hardwood forests
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 55 – (5.9 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the left descending bank of the Elk River stretching between miles 4.9 and 5.3. The property follows the 560-foot msl contour and adjoins former TVA property (Tract No. XWR-451) sold to the state of Alabama for recreation purposes. The Elk River Lodge is located on the back-lying property and is operated in conjunction with Joe Wheeler State Park. Amenities include a boat ramp, parking lot, access road, lodge, and restaurant. Additional information pertaining to the Elk River Lodge can be found on the state of Alabama’s Web site, <http://www.alapark.com/joe-wheeler-state-park>. There is a low probability for the presence of cultural resources, and most of the parcel has been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–55. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D–Stage Map Numbers	169
Stream Mile and Bank	Elk River mile 4.9–5.3L

Parcel 56 – (44.6 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel consists of a contiguous tract of land lying along the left descending bank of Elk River miles 4.2 to 4.8. The entire tract is currently covered with deciduous forest. Access to the tract is available across U.S. Highway 72 or private land. Until this tract is selected for development, TVA will continue management of upland wildlife game species. There is a moderate probability for the presence of cultural resources. A survey for historic properties is a possible future project. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4–56. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	169
Stream Mile and Bank	Elk River miles 4.2 – 4.8L
Land Use/Land Cover	Deciduous forest
Current Agreements/Commitments	None identified

Parcel 57 – (136.2 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This linear parcel has more than 1 mile of shoreline along the left descending bank of the Elk River. It features deep coves, scrub-shrub wetlands, rolling topography, hardwood forest uplands, and scattered limestone bluffs. Wetlands have formed by historic deposition of driftwood during flood events. White-tailed deer is the featured upland species of game on the parcel. The pine forest cover also provides diversity from adjacent private lands behind TVA which are currently in pasture and row crops. Multiple coves along the shoreline provide suitable habitat for mammals that use aquatic habitats and wood duck staffing, roosting, and production areas. These same coves provide excellent sport fishery for largemouth bass.

No federally or state-listed species or species of special status are known to occur on this parcel. There are known cultural resources within this parcel. Requests for private water use facilities would not be considered.

Table 4–57. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	169
Stream Mile and Bank	Elk River mile 4.0L
Land Use/Land Cover	Hardwood forests, limestone bluffs, and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 58 – (100.7 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is the Long Oak Forest TVA small wild area (SWA). It represents approximately 1 mile of shoreline along the left descending bank of the Elk River. Much of the tract is bordered to the east by intensively managed agricultural land, predominantly row crops. The tract contains upland hardwoods exceeding 105 years old. The northern border of the tract joins a 20-acre loblolly pine plantation established in the late 1930s by Civilian Conservation Corps. Chestnut oak and shagbark hickory are found on the bluffs, with an understory of mountain laurel, buckeye, and dogwood. The bluffs and coves offer habitat for a wide variety of wildflowers. The coves are composed of white oak, yellow-poplars, and beeches. A state-listed species of special concern, red baneberry (*Actea pachypoda*) is found on parcel; approximately 15 populations are known to exist in northern Alabama.

This area is ideal for native plant group field trips, birding, and passive recreation, such as hiking. It provides beautiful views of the river from the top of the bluffs. No federally listed species are known to occur on this parcel. There are known cultural resources on this parcel. No existing shoreline improvements are currently present, and requests for private water use facilities would not be considered.

Table 4–58. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	53–SE
TVA D–Stage Map Numbers	164 and 169
Stream Mile and Bank	Elk River mile 2.5L
Land Use/Land Cover	Early successional hardwoods and planted pines in reforested agricultural fields; hardwood forests; limestone bluffs; and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 59 – (18.4 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is land located along the left descending bank of Elk River. The tract extends between TVA markers 164-196 to 170-137. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and grasslands. Given the level of residential development, there is a low probability for the presence of undisturbed cultural resources. The Pointe Subdivision is located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered. Water use facilities must be less than 1,000 square feet, and maintained lawns are not permitted on TVA property.

Table 4–59. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	53–SE
TVA D–Stage Map Numbers	168
Stream Mile and Bank	Elk River mile 1.4L
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR–459
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 60 – (100.8 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This large tract is located along the left descending bank of the Elk River at the confluence of the Tennessee River. Hardwood forests dominate the tract. A large portion of the hardwood is bottomland species averaging 70 years old. The natural beauty of small rock bluff formations and the forest background provide added scenic value to the large open body of water made by the joining of the two rivers. Scrub-shrub wetlands are located along the shoreline at the northern portion of the parcel. Along the southern portion of the parcel, abandoned agricultural fields are reverting through natural succession to mature forest.

The main access to the tract is from Limestone CR 38 (Snake Road). Evidence of hunting, bank fishing, and primitive camping can be seen throughout any given season. Upland small game is prevalent, with white-tailed deer the featured large game species on the tract. Numerous federally and state-listed mussel species were present at the mouth of the Elk River prior to impoundment, but no existing populations are currently known. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–60. Parcel Information

\	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	53–SE
TVA D–Stage Map Numbers	164 and 170
Stream Mile and Bank	Tennessee River mile 284.3R
Land Use/Land Cover	Scrub-shrub wetlands and upland mixed and early successional pine and hardwood forests
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 61 – (4.8 acres)*Proposed RLMP Allocation: Zone 7, Shoreline Access*

This parcel is land located along the right descending bank of the Tennessee River. The tract extends between TVA markers 170-118A to 170-109. This parcel lies entirely below the 560-foot msl contour, and the current land use is deciduous forest and maintained lawns. There is a moderate probability for the presence of cultural resources. Burgreen Subdivision is located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–61. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	53–SE and 60–SW
TVA D–Stage Map Numbers	170
Stream Mile and Bank	Tennessee River mile 286.2R
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR–283, XWR–284, XWR–285, XWR–286, and XWR–287
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 62 – (68.3 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located north of Snake Road and surrounds the upper end of Lucy's Branch embayment. Part of the tract is a 60-year-old bottomland hardwood, and part (about 12 acres) of the tract supports a loblolly pine plantation dating from the Civilian Conservation Corps period of the late 1930s. Soils here are high to medium productivity for forestland, but roughly 20 percent of the land is subject to flooding. Eighty percent of the soil area is classed as highly erodible or potentially highly erodible. No federally or state-listed species or species of special status are known to occur on this parcel. Lucy Cemetery is present on the parcel, and there is a high probability for the presence of other cultural resources. However, a comprehensive archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–62. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	169
Stream Mile and Bank	Tennessee River mile 287R
Land Use/Land Cover	Upland and bottomland forest with dispersed planted loblolly pines
Known Dispersed Recreation Opportunities	Bank fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 63 – (32.6 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the right descending bank of the Tennessee at the confluence with Lucy's Branch. Access to the parcel is by Snake Road which borders the parcel on the north, and bank fishing is popular at this area. The property is encumbered by a revocable license agreement to Limestone County, Alabama for public recreation. Amenities on the parcel include a boat ramp, courtesy pier, pavilion, and picnic area. A small campground is under construction.

There is moderate probability for the presence of cultural resources in the undisturbed areas. A systematic survey for historic properties has not occurred throughout the entire parcel.

Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-63. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D-Stage Map Numbers	169 and 170
Stream Mile and Bank	Tennessee River mile 287.2R

Parcel 64 – (2.9 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This small triangular tract is located on the first sizable inlet east of Lucy's Branch along the right descending bank of the Tennessee River. Access is by Snake Road, which defines the northern border of the tract. This wooded area is subject to flooding, and the soil is classed as highly erodible. Forested wetlands are also present along the reservoir.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–64. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	172
Stream Mile and Bank	Tennessee River mile 288R
Land Use/Land Cover	Forested wetlands and hardwood forest
Known Dispersed Recreation Opportunities	Bank fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 65 – (8.7 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is land located along the right descending bank of the Tennessee River. The tract extends between TVA markers 172-128 to 172-129. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. There is a moderate probability for the presence of cultural resources. Ozier Subdivision and Dogwood Subdivision are located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–65. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	172
Stream Mile and Bank	Tennessee River mile 287.6R
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR–460 and XWR–461
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 66 – (9.1 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel consists of two narrow tracts of forested limestone bluff along the right descending bank of the Tennessee River. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–66. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	172
Stream Mile and Bank	Tennessee River mile 289R
Land Use/Land Cover	Forested limestone bluff
Known Dispersed Recreation Opportunities	Bank fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for caves and bluff shelters
Potential Partners	None identified

Parcel 67 – (7.6 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This is another narrow shoreline parcel located directly upstream from an adjoining tract with much the same character and description. It is forested limestone bluff, and the soils have high erosion potential. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. No existing shoreline

improvements are currently present, and requests for private water use facilities would not be considered.

Table 4–67. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	172
Stream Mile and Bank	Tennessee River mile 289R
Land Use/Land Cover	Limestone bluff with upland hardwood forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 68 – (14.3 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is land located along the right descending bank of the Tennessee River and Coxey Creek. The tract extends between TVA markers 173-140 to 173-141. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. The portion of the parcel located within Coxey Creek has a moderate probability for the presence of cultural resources; the portion of the parcel fronting the Tennessee River has a low probability for the presence of cultural resources due to the extensive residential development. Coxey Creek, Lazy Livin’ Acres, and Beechwood Acres subdivisions are located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–68. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	172 and 173
Stream Mile and Bank	<ul style="list-style-type: none"> • Coxey Creek Mile 0.2 to 0.6B • Tennessee River mile 289R
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR–462, XWR–463, XWR–464, XWR–465, XWR–466, and XWR–467
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 69 – (8.8 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located on the right descending bank of the Tennessee River in the Egypt Bluff area. The terrain is a forested limestone bluff, and the soils are highly erodible. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an archaeological survey has not been conducted. No existing shoreline improvements are currently present, and requests for private water use facilities would not be considered.

Table 4–69. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NW
TVA D–Stage Map Numbers	173
Stream Mile and Bank	Tennessee River mile 290R
Land Use/Land Cover	Forested limestone bluff
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 70 – (8.7 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

Similarly to the adjoining property, this parcel is located on the right descending bank of the Tennessee River in the Egypt Bluff area. The terrain is a forested limestone bluff, and the soils are highly erodible. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an archaeological survey has not been conducted. No existing shoreline improvements are currently present, and requests for private water use facilities would not be considered.

Table 4-70. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NW
TVA D-Stage Map Numbers	173
Stream Mile and Bank	Tennessee River mile 290.1R
Land Use/Land Cover	Forested limestone bluff
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 71 – (9.0 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

Similarly to the adjoining property, this parcel is located on the right descending bank of the Tennessee River in the Egypt Bluff area. The terrain is a forested limestone bluff, and the soils are highly erodible. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an archaeological survey has not been conducted. No existing shoreline improvements are currently present, and requests for private water use facilities would not be considered.

Table 4-71. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NW
TVA D-Stage Map Numbers	173
Stream Mile and Bank	Tennessee River mile 290.3R
Land Use/Land Cover	Forested limestone bluff
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 72 – (6.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel adjoins former TVA property that was sold to the 560-foot msl without rights for water use facilities. The land cover consists of hardwood forest and forested and scrub-shrub wetlands. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an

archaeological survey has not been conducted. There are no existing shoreline improvements and requests for private water use facilities would not be considered.

Table 4-72. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NW
TVA D-Stage Map Numbers	176
Stream Mile and Bank	Tennessee River mile 291.5R
Land Use/Land Cover	Forested and scrub-shrub wetlands and hardwood forests
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 73 – (10.3 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is land located along the right descending bank of the Tennessee River and Poplar Creek. The tract extends between TVA markers 176-248 to 176-241. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. The upper portions of Poplar Creek have a moderate probability for the presence of cultural resources. The lowest portion of the parcel fronting the Tennessee River has a low probability for the presence of cultural resources. Poplar Creek and Poplar Point subdivisions are located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4-73. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NW
TVA D-Stage Map Numbers	176
Stream Mile and Bank	<ul style="list-style-type: none"> • Poplar Creek 0.4L • Tennessee River mile 291.5R
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR-469 and XWR-470
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	Approved water use facilities

Parcel 74 – (60.2 acres)*Proposed RLMP Allocation: Zone 6, Developed Recreation*

This parcel is located along the right descending bank of the Tennessee River at mile 298 and is known as the Round Island Creek Recreation Area. Access is by Cowford Road. A portion of the parcel is encumbered by a revocable license agreement by Limestone County, Alabama for public recreation. Amenities include a campground, picnic area, swimming beach, boat ramp, courtesy pier, bathhouse, and a fishing pier. The undisturbed portions of the parcel have a high probability for the presence of cultural resources; however, a systematic survey for historic properties has not occurred for the entire parcel. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-74. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D-Stage Map Numbers	180 and 181
Stream Mile and Bank	Elk River mile 20.5-21R

Parcel 75 – (20.0 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located at Tennessee River mile 297.7R, and is encumbered by TVA’s Browns Ferry–Trinity 500 kilovolt transmission line (kV–TL). There is a moderate probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4–75. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NE
TVA D–Stage Map Numbers	180 and 181
Stream Mile and Bank	Tennessee River mile 297.7R
Land Use/Land Cover	Transmission line right–of–way
Known Dispersed Recreation Opportunities	fishing, picnicking, and primitive camping
Current Agreements/Commitments	Revocable license to Limestone County, Alabama Park and Recreation Department for a campground
Potential Projects	<ul style="list-style-type: none"> • Campground expansion; • Survey for historic properties
Potential Partners	Limestone County, Alabama

Parcel 76 – (35.3 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is adjacent to the Round Island Creek campground. The land cover consists of primarily hardwood forest with patches of planted loblolly pine, and wetland conditions dominate most of the parcel. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–76. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NE
TVA D–Stage Map Numbers	180
Stream Mile and Bank	Round Island Creek Mile 0.2L
Land Use/Land Cover	Mixed forest-primary hardwood with patches of planted loblolly pine; and wetlands
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 77 – (332.1 acres)*Proposed RLMP Allocation: Zone 4, Natural Resource Conservation*

This parcel is located immediately west of the Swan Creek WMA and surrounds the lower portions of the Round Island Creek embayment in Limestone County, Alabama. This parcel features a mixture of scrub forest; loblolly pine plantation; forested, scrub-shrub, and emergent wetlands; and agricultural lands.

A term revocable agricultural license is used to manage a portion of this tract for small game and non-game wildlife. Agricultural fields are used for small grain production, and native warm-season grass buffers are maintained along the property boundary of the agricultural fields. TVA partners with the licensee to maintain these buffers and other wildlife habitat areas near the agricultural fields. The area receives substantial use for fishing in the flooded embayments.

Public access is available by boat to portions of this parcel; in addition, CRs are located along the eastern edge of the parcel. An informal boat launch area is maintained along the lower left descending bank of Round Island Creek. Dispersed recreation use of this parcel includes hunting, fishing, primitive camping, and wildlife observation.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, only a portion of the area has been surveyed for historic properties. Requests for private water use facilities would not be considered.

Table 4-77. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NE
TVA D-Stage Map Numbers	180 and 183
Stream Mile and Bank	TRM 298-299R
Land Use/Land Cover	Agricultural fields; mixed forest-hardwood with large tracts of planted loblolly pine; and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, primitive camping, and wildlife observation
Current Agreements/Commitments	Term agricultural license to a private individual for row crops (corn and soybean) production with native warm season grass field buffers
Potential Projects	<ul style="list-style-type: none"> • Evaluate the significance of known cultural resources • Increase and improve vegetation management for wildlife • Systematic survey for historic properties
Potential Partners	Licensee

Parcel 78 – (35.1 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located at Tennessee River mile 299R, and is encumbered by a TVA 500 kV- transmission line. There is a low probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4-78. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NE
TVA D-Stage Map Numbers	180 and 183

Location Component and Public Involvement Opportunities	Parcel Specific Information
Stream Mile and Bank	Tennessee River mile 299R
Land Use/Land Cover	Transmission line right-of-way
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	None identified
Potential Partners	None identified

Parcel 79 – (56.9 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located adjacent to the upper portions of the Round Island Creek embayment in Limestone County, Alabama. Public access is limited on this parcel, with two CRs located through the northern portion and along the eastern edge of the parcel. A portion of Round Island Creek at the northern end of this parcel remains free-flowing and is only affected by Wheeler Reservoir during significant flood events. This parcel features a mixture of bottomland forest and loblolly pine plantation and agricultural lands.

A term revocable agricultural license is used to manage a portion of this tract for small game and non-game wildlife. Agricultural fields are used for small grain production. TVA partners with the licensee to maintain wildlife habitat areas near the agricultural fields. The area is primarily used for hunting with limited primitive camping and wildlife observation.

The federally listed slender campeloma (*Campeloma decampi*) is known to occur in the lower portions of Round Island Creek and has been observed within this parcel. No state-listed species are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, only a portion of the area has been surveyed for historic properties.

Requests for private water use facilities would not be considered.

Table 4-79. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NE
TVA D-Stage Map Numbers	183

Location Component and Public Involvement Opportunities	Parcel Specific Information
Stream Mile and Bank	Round Island Creek Mile 2B
Land Use/Land Cover	Bottomland hardwood forest with planted loblolly pine and dense privet understory
Known Dispersed Recreation Opportunities	Bank fishing and hunting
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 80 – (1.2 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Round Island Creek, a tributary to TRM 298.1R, and is encumbered by a ROW for Nuclear Plant Road. Requests for private water use facilities would not be considered.

Table 4-80. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NE
TVA D-Stage Map Numbers	180 and 183
Stream Mile and Bank	Tennessee River mile 298.1R
Land Use/Land Cover	Road right-of-way
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	Permanent easement to Limestone County, Alabama Board of Revenue for a road right-of-way
Potential Projects	None identified
Potential Partners	Limestone County, Alabama

Parcel 81 – (4,145.4 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located immediately west of U.S. Highway 31 and south of Harris Station Road in Limestone County, Alabama. This parcel features a mixture of bottomland forest; loblolly pine plantation; forested, scrub-shrub, and emergent wetlands; agricultural lands; and open water associated with the Swan Creek WMA. This parcel is encumbered by a term easement with ADCNR for a WMA. A portion of this parcel, known locally as the West Dike Area, is managed by ADCNR by controlling water levels through levees and mechanical pumps. This area is dewatered during summer months to allow farmer access for small grain production, and then is flooded during winter for waterfowl habitat. Public access is available by boat to portions of this parcel; in addition, roads have been established through portions of the parcel to improve accessibility. However, access to the parcel is regulated and managed by ADCNR.

Management emphasis is on providing waterfowl hunting opportunities from drawn blinds and designated temporary blind sites. Additionally, other small and big game hunting is allowed. The area also receives substantial use for fishing in the flooded embayments and tributary streams. The area is also used for wildlife viewing opportunities, including one of North Alabama’s top shorebird viewing areas, Beulah Bay. Dispersed use of this parcel is regulated and managed by ADCNR; most use is for hunting, fishing and wildlife viewing. No federally listed as endangered, threatened or special status species are known to occur on this parcel. The state-listed prairie vole is known to occur on this parcel. The tuscumbia darter (*Etheostoma Tuscumbia*) and the spring pygmy sunfish (*Elassoma alabamae*) have been found in the adjacent reservoir, and past reintroduction efforts of the spring pygmy sunfish have met with limited success. This species is proposed for federal listing and continued reintroduction efforts are likely. Habitat for this species is present on this parcel, so future occurrence is possible. There is a high probability for the presence of cultural resources, but only a portion of the area has been surveyed. Requests for private water use facilities would not be considered.

Table 4–81. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NE and 68–NW
TVA D–Stage Map Numbers	183, 184, 185, 187, 188, and 189
Stream Mile and Bank	Tennessee River miles 299–304.3R

Location Component and Public Involvement Opportunities	Parcel Specific Information
Land Use/Land Cover	Agricultural fields, bottomland forest, pine plantation, and forested, scrub-shrub, and emergent wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hiking, hunting, photography, and wildlife observation
Current Agreements/Commitments	Term easement to Alabama Department of Conservation and Natural Resources for a wildlife management area
Potential Projects	<ul style="list-style-type: none"> Evaluate the significance of known cultural resources Reintroduction efforts of the spring pygmy sunfish Systematic survey for historic properties
Potential Partners	Alabama Department of Conservation and Natural Resources

Parcel 82 – (22.9 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel contains the levees and pumps associated with the dewatering unit within the Swan Creek WMA. The back-lying land is used to support the dewatering unit, and there is a low probability for the presence of cultural resources on the levees. Requests for private water use facilities would not be considered.

Table 4–82. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NE and 68–NW
TVA D–Stage Map Numbers	185, 188, and 189
Stream Mile and Bank	Tennessee River miles 302 to 304.5L
Land Use/Land Cover	pump and levee
Known Dispersed Recreation Opportunities	Bank fishing, hiking, hunting, photography, and wildlife observation
Current Agreements/Commitments	None identified
Potential Projects	None identified
Potential Partners	Alabama Department of Conservation and Natural Resources

Parcel 83 – (19.7 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Spring Creek and Swan Creek, tributaries to TRM 301R, and is encumbered by a ROW for Harris Station Road. This parcel is adjacent to the Swan Creek WMA. Requests for private water use facilities would not be considered.

Table 4-83. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NE and 68-NW
TVA D-Stage Map Numbers	183, 187, and 188
Stream Mile and Bank	Tennessee River mile 301R
Land Use/Land Cover	Road right-of-way
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	Permanent easement to Limestone County, Alabama Board of Revenue for a road right-of-way
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • Alabama Department of Natural Resources and Conservation • Limestone County, Alabama

Parcel 84 – (31.7 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel consists of a railroad crossing the reservoir at TRM 304.4. The area is restricted to disturbed ROW represents a low probability for the presence of cultural resources. Areas undisturbed by construction of rail tracks have a moderate probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4–84. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	68–NW and 68–SW
TVA D–Stage Map Numbers	189
Stream Mile and Bank	TRM 304.4R
Land Use/Land Cover	Railroad ROW
Current Agreements/Commitments	Term easement to the Alabama Department of Conservation and Natural Resources for wildlife management

Parcel 85 – (58.6 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the right descending bank of the Tennessee River at mile 305 and is encumbered by a revocable license to the City of Decatur, Alabama, for public recreation. Public recreation uses occurring on this parcel include bank fishing, walking for pleasure, bird watching, and nature study. The undeveloped portions of this parcel have a high probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–85. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D–Stage Map Numbers	189
Stream Mile and Bank	TRM 305R

Parcel 86 – (69.1 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located at Tennessee River mile 305B, and is encumbered by ROWs for U.S. Highway 31, U.S. Highway 72, and Alabama SR 20. A large portion of this parcel includes the causeway for the ROWs. There is a moderate probability for the presence of cultural resources

in that portion that is not covered by existing highways. Requests for private water use facilities would not be considered.

Table 4–86. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	68–NW and 68–SW
TVA D–Stage Map Numbers	189 and 196
Stream Mile and Bank	TRM 305B
Land Use/Land Cover	Road ROW
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	Permanent easement to the State of Alabama for a road ROW
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • City of Decatur, Alabama • State of Alabama

Parcel 87 – (81.5 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel contains the levees and pumps associated with the Rockhouse Dewatering Unit within the WNWR. The back-lying land is used to support the dewatering unit, and there is a high probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4–87. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	68–NW and 68–SW
TVA D–Stage Map Numbers	189, 196, 197, and 201
Stream Mile and Bank	TRMs 305 to 310.5RL
Land Use/Land Cover	Pump and levee
Known Dispersed Recreation Opportunities	Bank fishing, hiking, hunting, photography, and wildlife observation
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	Survey to evaluate the significance of historic properties
Potential Partners	USFWS

Parcel 88 – (13,313.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This large parcel is allocated for the WNWR and, for the most part, follows the 560-foot msl contour. The WNWR was established in 1938 by Executive Order from President Franklin D. Roosevelt. This action paved the way for the transfer of approximately 34,500 acres of land from TVA to the USFWS. This former TVA property adjoins this parcel, and the entire parcel is encumbered by a permanent easement between the USFWS and TVA to manage the refuge.

The WNWR was established as a refuge and wildlife management area for migratory birds and other wildlife. The WNWR encompasses lands on both the north and south shores of the Tennessee River, as well as lands along several primary tributaries (Piney, Beaverdam, Limestone, Cotaco, and Flint creeks). WNWR contains several habitats including open reservoir waters, bottomland hardwoods, upland oak/hickory and pine forests, freshwater marsh and, open grasslands. The diversity of habitats found on the WNWR provides habitat for hundreds of species of birds, fish, reptiles, and plants. WNWR provides ample opportunities for several dispersed recreation opportunities including; fishing, hunting, hiking, wildlife observation, photography, and camping. For more information, including a comprehensive list of species found there, please visit the WNWR’s Web site at <http://www.fws.gov/wheeler>.

Several federally and state-listed species and 5 caves are known to occur on this tract or in the adjacent reservoir. Federally listed species include sheepsnose (*Plethabasus cyphus*), spactaclecase (*Cumberlandia monodonta*), pink mucket (*Lampsilis abrupta*), rough pigtoe (*Pleurobema plenum*), armored marstonia (*Marstonia pachyta*), Anthony’s river snail (*Athearnia anthonyi*), slender campeloma (*Campeloma decampi*), and gray bat (*Myotis grisescens*). State-listed species include two ground beetles (*Rhadine caudata* and *Batriasymmodes spelaeus*), cave spring cave spider (*Nesticus jonesi*), Ohio pigtoe (*Pleurobema cordatum*), butterfly (*Ellipsaria lineolata*), mucket (*Actinonaias ligamentina*), pocketbook (*Lampsilis ovata*), pink papershell (*Potamilus ohioensis*), skirted hornsnail (*Pleurocera pyrenella*), two troglobitic crayfish

(*Cambarus jonesi* and *Procambarus pecki*), tuscumbia darter (*Etheostoma tuscumbia*), quillwort (*Isoetes engelmannii*), and yellow water-crowfoot (*Ranunculus flabellaris*).

The WNWR has one of the highest densities of sensitive cultural resource sites in north Alabama. This is despite the fact that only a small percentage of this area has been systematically surveyed for historic properties. Any earth disturbing activities in this area will require oversight by the cultural resource staff of TVA, USFWS and, where appropriate, Redstone Arsenal. The importance of these resources cannot be overstated.

No private shoreline improvements are currently present, and requests for private water use facilities would not be considered.

Table 4-88. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Madison, and Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	68-NW, 68-NE, 68-SE, 68-SW, 69-NW, 75-NW, and 75-SW
TVA D-Stage Map Numbers	189, 190, 195, 196, 200, 201, 203, 204, 206, 207, 210, 211, 212, 214, 215, and 219
Stream Mile and Bank	Tennessee River miles 305-324B
Land Use/Land Cover	Open grasslands, upland forests, bottomland forests, deciduous and pine forests, scrub-shrub wetlands, forested wetlands, freshwater marsh, and mixed pine-hardwood forests
Known Dispersed Recreation Opportunities	Bank fishing, biking, boating, hiking, hunting, primitive camping, photography, and wildlife observation
Current Agreements/Commitments	Term easement to the USFWS for a national wildlife refuge
Potential Projects	Projects as identified by the USFWS Systematic survey for historic properties
Potential Partners	USFWS

Parcel 89 – (5.2 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Beaver Dam Creek and Piney Creek, tributaries to Tennessee River mile 310.6R, and is encumbered by ROWs for old Alabama SR 20, and Swancott road. Requests for private water use facilities would not be considered.

Table 4–89. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	68–NW and 68–NE
TVA D–Stage Map Numbers	200 and 201
Stream Mile and Bank	TRM 310.6R
Land Use/Land Cover	Road ROW
Known Dispersed Recreation Opportunities	None Identified
Current Agreements/Commitments	Permanent easement to the State of Alabama for a road ROW
Potential Projects	None Identified
Potential Partners	<ul style="list-style-type: none"> • City of Decatur, Alabama • State of Alabama

Parcel 90 – (39.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located to the north of Alternate U.S. Highway 72 and to the south of Airport Road. The land cover is mostly bottomland hardwood forest. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–90. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	68–NW
TVA D–Stage Map Numbers	196
Stream Mile and Bank	TRM 307L
Land Use/Land Cover	Bottomland hardwood forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	Term easement to the USFWS for a national wildlife refuge

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	USFWS

Parcel 91 – (17.2 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel was one of a dozen tracts returned to TVA from USFWS in 1975 (Wheeler Refuge, Contract No. TV-19470A, Supplement No.2). Located on the east side of Rock House Road in South Limestone County, this tract is bisected into two parcels by Towe Road. The northern parcel is covered with small mixed pine and hardwood timber. The eastern boundary of this parcel abuts private property currently in agricultural use. Presently there are no homes immediately adjacent to the TVA property boundary of the northern parcel. The parcel located to the south of Towe Road and east of Rock House Road is currently occupied by five private driveways. Approximately 95 percent of the tract is outside the 100-year flood plain. About 50 percent of this parcel is covered with pole size pine and medium size hardwood trees. Half of this parcel is currently used as extended front yards by the four back-lying property owners located behind TVA's eastern and southern property boundary. Some of the adjacent property owners have multiple driveways over the tract. None of the private drives have been permitted by TVA. The 1995 RLMP recommended this parcel as a candidate for surplus and disposal. There is a high probability for the presence of cultural resources. This area has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4-91. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	68-SE
TVA D-Stage Map Numbers	206
Stream Mile and Bank	Beaverdam Creek Mile 2L

Location Component and Public Involvement Opportunities	Parcel Specific Information
Land Use/Land Cover	Deciduous forest, private road ROW
Current Agreements/Commitments	Revocable license to the City of Athens for electric utilities

Parcel 92 – (17.6 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel was one of a dozen tracts returned to TVA from FWS in 1975, (Wheeler Refuge, Contract No. TV-19470A, Supplement No.2).

Located on the east side of Rock House Road in South Limestone County, the tract is in forest cover dominated by loblolly pine. Scattered pockets of hardwood are also present and are generally restricted to the drains. There are two natural drainage systems which cross the tract. Both drains enter Beaverdam Creek through culverts under Rock House Road. Portions of the tract are within the 100–year flood elevation and are flood prone during extreme high water from Wheeler Reservoir at Beaverdam Creek.

Single family homes are located just behind TVA's eastern back-lying property line. Some of the adjacent property owners have multiple driveways over the tract. The private drives or improvements have been permitted by TVA. The 1995 RLMP recommended this parcel as a candidate for surplus and disposal. There is a high probability for the presence of cultural resources. This area has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4–92. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	68–SE
TVA D–Stage Map Numbers	201 and 206
Stream Mile and Bank	Beaverdam Creek Mile 2L
Land Use/Land Cover	Deciduous forest, loblolly pines, private road ROW
Current Agreements/Commitments	Revocable license to the City of Athens for electric utilities

Parcel 93 – (108.0 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel consists of a series of safety harbors located adjacent to the WNWR. Safety harbors are available for barges and recreational boats during adverse weather conditions or equipment malfunction. Future development of this tract will be restricted, and there is a high probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4–93. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Madison, and Morgan Alabama
Topographic Map (Sheet No. and Quadrant)	68–SW, 68–SE, and 75–SW
TVA D–Stage Map Numbers	201, 202, 208, 210, and 214
Stream Mile and Bank	<ul style="list-style-type: none"> • Limestone Creek Mile 1.3R • TRM 310.6R (mouth of Limestone Creek) • TRM 313B • TRM 316L • TRM 318.3R • TRM 320.9B • TRM 322L
Land Use/Land Cover	Deciduous forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Systematic survey for historic properties
Potential Partners	USFWS

Parcel 94 – (6.4 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located in the Town of Triana, Alabama, at the confluence of Indian Creek and Tennessee River. Access to the parcel is by Record Street. Amenities at the Triana Boat Ramp include a paved boat ramp, parking lot, courtesy pier, and fishing pier. Although managed by the State of Alabama, this parcel is encumbered by a permanent easement to USFWS. The

undeveloped portions of this parcel have a moderate probability for the presence of cultural resources; however, this parcel has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-94. Parcel Information

Location Component	Parcel Specific Information
County, State	Madison, Alabama
TVA D-Stage Map Numbers	214
Stream Mile and Bank	TRM 320.9R

Parcel 95 – (1.7 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is bordered on the north and east by the town park of Triana, Alabama. The western side is bordered by a city street, providing good public access. A wooden frame house is located on the parcel, and the city has requested a land use agreement to provide expansion space for their existing town park. The parcel is not contiguous to the reservoir or Tennessee River, but overlooks the confluence of Indian Creek and the Tennessee River at TRM 321. The State of Alabama maintains a boat ramp and parking lot on the reservoir below this area. This parcel has a high probability for the presence of cultural resources; there are known historic structures on this parcel. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-95. Parcel Information

Location Component	Parcel Specific Information
County, State	Madison, Alabama
TVA D-Stage Map Numbers	214
Stream Mile and Bank	TRM 321R

Parcel 96 – (4.3 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Barren Fork Creek, a tributary to Indian Creek along the right descending bank of TRM 320.9. This parcel is isolated from the reservoir and encumbered with ROWs for Zierdt Road along the eastern property line and Beadle Lane along the northern property line. Single family homes are located adjacent to the parcel’s western property line and an agricultural field is located to the south. The northern portion of the parcel has been cleared for road ROW and potential vegetation encroachments from adjacent property owners. The southern portion of the parcel is covered with scrub hardwood and pole-size pine. There is a moderate probability for the presence of cultural resources.

The parcel was transferred back to TVA from WNWR in 1975 when their boundary policy changed to reflect physical barriers, such as roads. The 1995 RLMP recommended this parcel as a candidate for surplus and disposal. Requests for private water use facilities would not be considered.

Table 4–96. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SW
TVA D–Stage Map Numbers	212 and 213
Stream Mile and Bank	TRM 320.9R
Land Use/Land Cover	Deciduous forest and road ROW
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	Permanent easement to Madison County, Alabama for a road ROW
Potential Projects	Systematic survey for historic properties
Potential Partners	Madison County, Alabama

Parcel 97 – (4,066.9 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel encompasses the TVA property allotted for Redstone Arsenal. On November 6, 1941, President Franklin D. Roosevelt approved an agreement among TVA, Department of Interior, and War Department (now the Department of Defense) for the use of lands by the Department of Defense for the creation and future operation of Redstone Arsenal. Additional information about Redstone Arsenal can be found at <http://www.garrison.redstone.army.mil/>. There is a high probability for the presence of cultural resources. One cave has been reported from this parcel. Five state or federally listed species have been recorded on this parcel, the common barn owl, (*Tyto alba*), bald eagles (*Haliaeetus leucocephalus*), little brown bats (*Myotis lucifugus*), gray bats, and northern long-eared bats. Northern long-eared bats have only been recorded acoustically on this parcel; however, several individuals of this species also have been captured less than 1,000 feet from this parcel. Requests from Redstone Arsenal or an appropriate designee for water use facilities or other structures located on TVA property would be considered.

Table 4–97. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75–NE, 75–NW, 75–SE, and 75–SW
TVA D–Stage Map Numbers	212, 213, 217, 218, 219, 220, 221, 245, 246, and 247
Stream Mile and Bank	TRM 321.5 to 332R L
Land Use/Land Cover	Deciduous forest, industrial, recreation, and wetlands
Known Dispersed Recreation Opportunities	boat launching and picnic pavilions available to restricted Redstone Arsenal personnel
Current Agreements/Commitments	<ul style="list-style-type: none"> • Land use agreement with Department of Defense for operation of Redstone Arsenal • Permanent easement to U.S. Fish and Wildlife for Wheeler National Wildlife Refuge
Potential Projects	None identified
Potential Partners	Redstone Arsenal and USFWS

Parcel 98 – (70.3 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located along the right descending bank of Wheeler Reservoir and west of Whitesburg Bridge (U.S. Highway 231/53). The land cover consists of planted loblolly pine and scrub hardwood along the shoreline. There are forested, scrub-shrub, and emergent wetlands found throughout the interior of the parcel. There is a steep and eroding bank along the shoreline. The diverse wildlife habitats support a variety of wetland wildlife, including game and nongame species. It currently receives both big and small game hunting. The state-listed species pocketbook (*Lampsilis ovata*) and federally endangered species pink mucket (*Lampsilis abrupta*) and spectaclecase (*Cumberlandia monodonta*) have been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–98. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SE
TVA D–Stage Map Numbers	222
Stream Mile and Bank	TRM 332.5R
Land Use/Land Cover	Forested, scrub-shrub, and emergent wetlands; planted loblolly; and scrub hardwood
Known Dispersed Recreation Opportunities	Bank fishing, hiking, and wildlife observation
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Potential for greenway, park, and/or wetland education area • Systematic survey for archaeological sites and historic structures
Potential Partners	City of Huntsville, Alabama

Parcel 99 – (74.1 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along both banks of Aldridge Creek and fronts former TVA property (Tract Nos. XWR-483 and XWR-595). The parcel supports the Ditto Landing Marina development which is operated by the Huntsville-Madison County Port Authority as a public park. Amenities include visitor center, full service campground and marina, bathhouses, restrooms, boat ramp, courtesy dock, fishing pier, picnic area, and trails. There is a high probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–99. Parcel Information

Location Component	Parcel Specific Information
County, State	Madison, Alabama
TVA D–Stage Map Numbers	222
Stream Mile and Bank	<ul style="list-style-type: none">• Aldridge Creek Miles 0–1.6B• TRM 333.5R

Parcel 100 – (4.2 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel consists of two small tracts of land adjacent to the Alabama State Docks Terminal. One tract of land is connected to the Aldridge Creek watershed is available for future expansion of the existing barge terminal. The other tract of land is located along the right descending bank of TRM 334 and fronts former TVA property sold to Union Carbide Corporation for an Industrial site and the City of Huntsville, Alabama for a pump station. The larger tract has a moderate probability for the presence of cultural resources. A survey for historic properties is recommended. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4-100. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SE
TVA D-Stage Map Numbers	222
Stream Mile and Bank	TRM 334R
Land Use/Land Cover	Barge terminal, grassland, and pumping station
Current Agreements/Commitments	None identified

Parcel 101 – (11.7 acres)*Proposed RLMP Allocation: Zone 6, Developed Recreation*

This parcel is located along the right descending bank of the Tennessee River and is protected by Hobbs Island from commercial navigation traffic. Access is by Hobbs Island Road. Parcel provides for potential expansion for developed recreation facilities within these areas: Madison County Park, Whitesburg Yacht Club, the Rocket City Rowing Club, and Turkey Springs Boat Ramp. TVA transferred this property to Madison County, Alabama for public recreation purposes (Tract No. XTWR-75). The undeveloped portions of the parcel currently support trail activities and dispersed recreation use like bird watching, walking for pleasure and bank fishing. The undisturbed portions of this parcel have a high probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-101. Parcel Information

Location Component	Parcel Specific Information
County, State	Madison, Alabama
TVA D-Stage Map Numbers	222 and 223
Stream Mile and Bank	TRM 334.2-335.4R

Parcel 102 – (55.7 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the right descending bank of the Tennessee River, northeast of Hobbs Island, and north of Madison County Boat Harbor. The property lies east of Hobbs Island Road and west of the CSX Railroad at Hambrick Slough. The parcel receives a moderate amount of big game hunting as well as a moderate-to-high amount of small game hunting, mostly raccoon and squirrel. Adjacent land uses include residential, industry, agriculture, and forestry. As much as 90 percent of the tract is classified as prime farmland, and some 10 percent of its soils are considered highly erodible. Road and rail access are available nearby, and two boat launching ramps are located in the area.

The interior two-thirds of the parcel has bottomland hardwood cover on wetlands with red maple, sweetgum, and ash dominating. This area also has a cypress plantation that was established about 60 years ago. The outer one-third is occupied by a 50-year-old loblolly pine plantation. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-102. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SE
TVA D-Stage Map Numbers	222 and 223
Stream Mile and Bank	TRM 334.7R
Land Use/Land Cover	Bottomland hardwood forest with scattered tracts of planted loblolly pine
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 103 – (2.5 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along TRM 334.7R, and is encumbered by a ROW for Hegia Burrow Road. Requests for private water use facilities would not be considered.

Table 4-103. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SE
TVA D-Stage Map Numbers	223
Stream Mile and Bank	TRM 334.7R
Land Use/Land Cover	Road ROW
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	Permanent easement to Madison County, Alabama for a road ROW
Potential Projects	None identified
Potential Partners	None identified

Parcel 104 – (0.3 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel consists of two small tracts of land located along the right descending bank of TRM 335.3. This parcel is adjacent to former TVA property sold to The Norton Company for an industrial site. There is a moderate probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4-104. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama

Location Component and Public Involvement Opportunities	Parcel Specific Information
Topographic Map (Sheet No. and Quadrant)	75-SE
TVA D-Stage Map Numbers	223
Stream Mile and Bank	TRM 335.3R
Land Use/Land Cover	Deciduous forest
Current Agreements/Commitments	None identified

Parcel 105 – (6.9 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This small tract is located along the right descending bank of Wheeler Reservoir, just east of Hobbs Island along the secondary navigation channel. It lies just west of Hobbs Island Road near the end of the CSX Railroad (tracks formerly extending to the reservoir have been removed).

The land cover consists of bottomland hardwood forest and planted loblolly pine. The adjacent land uses are primarily industry, agriculture, and forestry. The tract is classified as prime farmland; none of its soils are considered highly erodible.

The Tennessee River from TRM 333.4 to TRM 336.5 (Whitesburg Bridge to the southern, upstream tip of Hobbs Island) is a designated mussel sanctuary. The entire tract fronts a river reach that provides habitat for the pink mucket (*Lampsilis abrupta*), which is listed federally as endangered and as special concern by the state of Alabama. There is an industrial water intake located on this tract at TR 335.4 (right bank). This parcel has not been surveyed for historic properties, but there is known significant archaeological sites nearby. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-105. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SE
TVA D-Stage Map Numbers	223

Location Component and Public Involvement Opportunities	Parcel Specific Information
Stream Mile and Bank	TRM 335.5R
Land Use/Land Cover	Bottomland hardwood forest and planted loblolly pine
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 106 – (42.4 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This extremely narrow tract is located along the perimeter of Hobbs Island. The land cover consists of scrub hardwood forest along an eroding deposition–soil riverbank. The previous RLMP classified the entire tract as prime farmland. Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. The Tennessee River from TRM 333.4 to TRM 336.5 (Whitesburg Bridge to the southern, upstream tip of Hobbs Island) is a designated mussel sanctuary. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–106. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SE
TVA D–Stage Map Numbers	223
Stream Mile and Bank	TRM 335.5R
Land Use/Land Cover	Scrub hardwood forest along eroding depositions–soil riverbank

Location Component and Public Involvement Opportunities	Parcel Specific Information
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Boundary survey to determine what remains of TVA land
Potential Partners	None identified

Parcel 107 – (6.6 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This small parcel is located along the right descending bank of the Flint River at the confluence of the Tennessee River. The land cover consists of primarily bottomland hardwood forest with scattered planted loblolly pine stands. The adjacent land uses are primarily industrial, agriculture, and forestry. The entire tract lies below the 100-year flood elevation and is classified as prime farmland, but the soils are not considered highly erodible. The reservoir and Flint River are impacted by nonpoint pollutants from surrounding lands. The combination with adjacent private agricultural lands and bottomland hardwoods on the tract provides good-to-excellent habitat for a variety of upland small game and nongame wildlife.

Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. The Tennessee River from TRM 333.4 to TRM 336.5 (Whitesburg Bridge to the southern, upstream tip of Hobbs Island) is a designated mussel sanctuary. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-107. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	76-SE

Location Component and Public Involvement Opportunities	Parcel Specific Information
TVA D-Stage Map Numbers	225
Stream Mile and Bank	TRM 339R
Land Use/Land Cover	Bottomland hardwood forest with scattered planted loblolly pines
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for archaeological site integrity
Potential Partners	None identified

Parcel 108 – (3.7 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel consists of a number of small islands located in the Flint River from river mile 0.4 upstream to river mile 2.1. The land cover consists of forested wetlands. Adjacent land uses are primarily agriculture and forestry. The previous RLMP classified the entire parcel as prime farmland. None of the soils are considered highly erodible. The islands provide good-to-excellent habitat for a variety of wetland wildlife, including wood ducks, wading birds, and mammals that use aquatic habitats. It currently receives a moderate amount of big game hunting, as well as a moderate to high amount of small game hunting, mostly raccoon and squirrel.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-108. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	76-SE
TVA D-Stage Map Numbers	227
Stream Mile and Bank	Flint River Mile 1.2B
Land Use/Land Cover	Forested wetland islands
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Systematic survey for historic properties
Potential Partners	None identified

Parcel 109 – (279.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This large parcel consists of various sized bottomland hardwood, large sawtimber loblolly pine plantations, reverting idle agricultural fields, and wetlands. This parcel receives a considerable amount of small and big game hunting use. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-109. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	82-SW
TVA D-Stage Map Numbers	227
Stream Mile and Bank	Flint River Mile 1.6-3.7R
Land Use/Land Cover	Bottomland hardwood forest with scattered tracts of planted loblolly pine
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping

Location Component and Public Involvement Opportunities	Parcel Specific Information
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 110 – (275.3 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is the Muddy Bottoms TVA HPA. The land cover consists of bottomland hardwoods and scrub-shrub wetlands. High-quality, large sawtimber, bottomland hardwood dominates the area with cherrybark and water oak, ash, and hickory the most common species. The parcel can serve as a benchmark for bottomland hardwood forestry research. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-110. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	82-SW
TVA D-Stage Map Numbers	227
Stream Mile and Bank	Flint River Mile 1.6-3.7R
Land Use/Land Cover	Bottomland hardwood with scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Hunting
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Revegetation due to unauthorized all-terrain vehicle abuse • Systematic survey for historic properties
Potential Partners	None identified

Parcel 111 – (7.5 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is a series of small islands beginning at Flint River Mile 3.9 and extending to approximately mile 6. The land cover consists of forested and scrub-shrub wetlands. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-111. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	82-SW
TVA D-Stage Map Numbers	226 and 227
Stream Mile and Bank	Flint River Mile 3.9-6B
Land Use/Land Cover	Forested and scrub-shrub wetland islands
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Systematic survey for historic properties
Potential Partners	None identified

Parcel 112 – (14.9 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located on the right descending bank of the Flint River at mile 5 and south of Hobbs Island Road. Madison County, Alabama, has requested a land use agreement for this parcel to provide public access to the Flint River. The property is currently improved with a small parking lot, and access is via Hobbs Island Road. This parcel has a moderate probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-112. Parcel Information

Location Component	Parcel Specific Information
County, State	Madison, Alabama
TVA D-Stage Map Numbers	226 and 227
Stream Mile and Bank	Flint River Mile 5R

Parcel 113 – (2.3 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Flint River Mile 5R, a tributary to Tennessee River mile 339R, and is encumbered by a ROW for Hobbs Island Road. Requests for private water use facilities would not be considered.

Table 4-113. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	82-SW
TVA D-Stage Map Numbers	226
Stream Mile and Bank	<ul style="list-style-type: none"> • Flint River Mile 5R • TRM 339R
Land Use/Land Cover	Road ROW
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	Permanent easement to Madison County, Alabama for a road ROW

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	None identified
Potential Partners	None identified

Parcel 114 – (40.7 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located at the uppermost portion of the Flint River embayment including both shoreland and islands. The land cover consists of bottomland hardwood forest and scrub-shrub wetlands. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-114. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	82-SW
TVA D-Stage Map Numbers	226
Stream Mile and Bank	Flint River Mile 5.4R
Land Use/Land Cover	Bank fishing, hunting, and primitive camping
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 115 – (434.0 acres)*Proposed RLMP Allocation: Zone 4, Natural Resource Conservation*

This large tract of land is located along the Flint River between river miles 3 and 6. The land cover consists of bottomland hardwood forest with scattered tracts of planted loblolly pine. There is also a forested limestone bluff located at the southern end of the parcel. The previous RLMP classified the entire tract as prime farmland, and the adjacent land use is primarily forestland. This tract receives a considerable amount of small and big game hunting use.

The state-listed species yellowwood (*Cladrastis kentukea*), great yellow wood-sorrel (*Oxalis grandis*), and twinleaf (*Jeffersonia diphylla*) have been found on the parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–115. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	82–SW
TVA D–Stage Map Numbers	227
Stream Mile and Bank	Flint River Mile 3.7L
Land Use/Land Cover	Bottomland hardwood forest, forested limestone bluff, scattered tracts of planted loblolly pines
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 116 – (174.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

The tract is located extends along the right descending bank of the Flint River from near the confluence with the Tennessee River to approximately TRM 2. The land cover consists of bottomland hardwood forest and wetlands. The previous RLMP classified the majority of this parcel as prime farmland. The adjacent land use is primarily agriculture, forestland, and some residential. This parcel receives a considerable amount of small and big game hunting use. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-116. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SE
TVA D-Stage Map Numbers	227 and 228
Stream Mile and Bank	Flint River Mile 1.3L
Land Use/Land Cover	Bottomland hardwood forest
Known Dispersed Recreation Opportunities	Bank fishing and hunting
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 117 – (20.3 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This parcel is located along the right descending bank of the Tennessee River extending from the Flint River confluence to approximately Flint River Mile 340.2. The land cover consists of scrub hardwood along the riverbank and early successional scrub-shrub adjacent to the riverbank. There are former agricultural license areas that are being managed via natural succession for revegetation. The adjacent land use is primarily agriculture and forestland. The former RLMP classified the entire parcel as prime farmland. No federally or state-listed species or species of special status are known to occur on this parcel. Cultural resources have been identified on this parcel; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-117. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	76-NE
TVA D-Stage Map Numbers	228
Stream Mile and Bank	TRM 339.5R
Land Use/Land Cover	Eroding deposition-soil riverbank, former agricultural fields, and scrub hardwood
Known Dispersed Recreation Opportunities	Bank fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 118 – (3.6 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is a safety harbor located at Tennessee River mile 340.5R. Safety harbors are available for barges and recreational boats during adverse weather conditions or equipment malfunction. Future development of this tract will be restricted, and there is a high probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4-118. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	76-NE
TVA D-Stage Map Numbers	228
Stream Mile and Bank	TRM 340.5R
Land Use/Land Cover	Deciduous forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	None Identified
Potential Partners	None identified

Parcel 119 – (51.7 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel stretches along the right descending bank of TRM 340.5 and approximately TRM 342. The land cover consists of hardwood scrub and forest along the shoreline. There is bottomland hardwood wetlands also located along the tributary streams. The previous RLMP classified a large majority of the parcel as prime farmland. Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been

conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-119. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	83-NW
TVA D-Stage Map Numbers	229
Stream Mile and Bank	TRM 341.5R
Land Use/Land Cover	Bottomland hardwood wetlands, eroding deposition-soil riverbank, hardwood scrub and forest, and unauthorized vegetation management
Known Dispersed Recreation Opportunities	Bank fishing and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Mitigation of unauthorized vegetation management • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 120 – (20.0 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is the Clark's Bluff TVA HPA. The HPA stretches along the right descending bank between Clark Hollow and the Paint Rock River. The land cover is upland hardwood forest, limestone bluff, and plateau remnant. The state-listed plant Cumberland rosinweed (*Silphium brachiatum*) has been recently recorded in this parcel. Numerous federally and state-listed aquatic species have been found in the adjacent reservoir, and there is a mussel sanctuary located in the river along this parcel.

The adjacent land use is primarily agriculture and forestland. Nonpoint source water pollution, associated with adjacent land activities, is a concern in the Paint Rock River and within the lake. There are significant cultural resources are also located on this tract. However, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-120. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison, Alabama
Topographic Map (Sheet No. and Quadrant)	83-NW
TVA D-Stage Map Numbers	228
Stream Mile and Bank	TRM 342.5R
Land Use/Land Cover	Limestone bluff, plateau remnant, and upland hardwood forest
Known Dispersed Recreation Opportunities	Hiking and mountain climbing
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 121 – (148.8 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located both banks of the Paint Rock River mile 4. The land cover is bottomland hardwood forest and wetlands. Large sawtimber water oak, hickory, and ash dominate the bottomland hardwood that occupies this tract. The adjacent land use is primarily agriculture and forestland. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–121. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison and Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83–NW
TVA D–Stage Map Numbers	233
Stream Mile and Bank	Paint Rock River Mile 4.2B
Land Use/Land Cover	Bottomland hardwood forest
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 122 – (16.8 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This tract is located along the left descending bank at river mile 5 on the Paint Rock River just below the confluence of Little Paint Rock Creek. The land cover is bottomland hardwood forest adjacent to forested limestone bluffs. The adjacent land use is primarily agriculture and forestland. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–122. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83–NW
TVA D–Stage Map Numbers	233

Location Component and Public Involvement Opportunities	Parcel Specific Information
Stream Mile and Bank	Paint Rock River Mile 4.7L
Land Use/Land Cover	Bottomland hardwood forest adjacent to forested limestone bluff
Known Dispersed Recreation Opportunities	Hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 123 – (49.9 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located along the right descending bank of the Tennessee River between the confluence of the Paint Rock River and TRM 345. The land cover is scrub hardwood along the shoreline, and forested limestone bluff at the eastern portion of the parcel. The adjacent land use is primarily agriculture and forestland. Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. The state-listed plant Church's wildrye has recently been recorded on this parcel. Significant cultural resources exist on the parcel; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–123. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Madison and Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83–NW
TVA D–Stage Map Numbers	230
Stream Mile and Bank	TRM 344R
Land Use/Land Cover	Eroding deposition–soil riverbank, forested limestone bluff, and scrub hardwoods along the shoreline

Location Component and Public Involvement Opportunities	Parcel Specific Information
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 124 – (5.9 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is a safety harbor located at TRM 345.3R. Safety harbors are available for barges and recreational boats during adverse weather conditions or equipment malfunction. There is a moderate probability for the presence of cultural resources. Future development of this tract will be restricted, and requests for private water use facilities would not be considered.

Table 4-124. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83-NW
TVA D-Stage Map Numbers	230
Stream Mile and Bank	TRM 345.3R
Land Use/Land Cover	Agriculture and grassland
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Restore shoreline vegetation
Potential Partners	Adjacent private property owner

Parcel 125 – (49.2 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located along the right descending bank of the Tennessee River between TRM 345.3 and the Guntersville Dam reservation. The land cover is scrub hardwood along the shoreline and eroding deposition–soil riverbank. The adjacent private land use is primarily agriculture. Numerous federally and state-listed aquatic species have been found in the adjacent mussel sanctuary. However, no federally or state-listed species or species of special status are known to occur on this parcel. There are existing cultural resources present on the parcel; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–125. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83–NW
TVA D–Stage Map Numbers	231
Stream Mile and Bank	TRM 346.3R
Land Use/Land Cover	Eroding deposition–soil riverbank and scrub hardwoods
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for archaeological sites and historic structures
Potential Partners	None identified

Parcel 126 – (62.2 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This parcel is located immediately downstream of Guntersville Dam reservation and extends to the confluence of Shoal Creek. The land cover is bottomland hardwood forest. This section of Wheeler Reservoir is more riverine and is heavily influenced by releases from Guntersville Dam. Numerous federally and state-listed aquatic species have been found in the adjacent mussel sanctuary. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources on the parcel; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-126. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83-NW
TVA D-Stage Map Numbers	231
Stream Mile and Bank	TRM 348L
Land Use/Land Cover	Bottomland hardwood forest
Known Dispersed Recreation Opportunities	Hiking and hunting
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 127 – (3.2 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the right descending bank of Shoal Creek. The tract has poor (dirt) road access across private land. Water access is also difficult because of the shallow stream depth and vegetation growth constricting the channel at some locations. The previous RLMP classified over 90 percent of the parcel as prime farm land. The rich bottom land soils found on the tract support large species of pine and hardwood trees. A grove of large American beach trees offer a scenic area popular with those seeking a primitive campsite near the water.

Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-127. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83-NW
TVA D-Stage Map Numbers	231
Stream Mile and Bank	Shoal Creek Mile 1.0R
Land Use/Land Cover	Hardwood forest
Known Dispersed Recreation Opportunities	Hiking and hunting
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 128 – (1.1 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Shoal Creek, a tributary to TRM 347.2L, and is encumbered by a transmission line ROW. There is a moderate probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4-128. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83-NW
TVA D-Stage Map Numbers	231
Stream Mile and Bank	Shoal Creek Mile 1.0R
Land Use/Land Cover	transmission line ROW
Known Dispersed Recreation Opportunities	None Identified
Current Agreements/Commitments	None Identified
Potential Projects	Survey for historic properties
Potential Partners	None Identified

Parcel 129 – (103.1 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This narrow parcel is located along the left descending bank of the Tennessee River between river miles 343.6 and 347. The land cover is bottomland hardwood forest, and the adjacent land use is primarily agriculture and forestland. There are significant cultural resources sites located on and adjacent to this tract. A nineteenth-century rural farm community, formerly occupied by Cherokee Indians led by Chief Parches, is located adjacent to the tract. Significant remains of both communities are located throughout the countryside. Water quality is a concern in this section of the reservoir because of organic enrichment and low-dissolved oxygen.

Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. No federally or state-listed species or species of special status are known to occur on this

parcel. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–129. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	83–NW
TVA D–Stage Map Numbers	230
Stream Mile and Bank	TRMs 343.6–347L
Land Use/Land Cover	Scrub hardwood and planted loblolly pine
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 130 – (291.6 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This narrow parcel is the Clarksville Mountain TVA HPA. It stretches along the left descending bank of the Tennessee River between river miles 339 and 343.6. The land cover is scrub hardwood forest and loblolly pine along the shoreline with eroding deposition–soil riverbank. The western portion of the parcel is a forested limestone bluff and plateau remnant mountain. Bottomland hardwood forests with scattered loblolly pines are located along Cane Creek. It currently receives a moderate amount of big game hunting, and a moderate–to–high amount of small game hunting, mostly raccoon and squirrel.

Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. Two state-listed plant occur on this parcel, smooth belphilia (*Belphilia subnuda*) and American beakgrain (*Diarrhena americana*). There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There

are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–130. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	76–NE
TVA D–Stage Map Numbers	228
Stream Mile and Bank	TRM 339–343.6L
Land Use/Land Cover	Planted loblolly pine and scrub hardwood forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 131 – (59.9 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This narrow tract is located along the left descending bank of the Tennessee River between miles 337.5 and 339. The land cover consists of mixed hardwood and loblolly pine along the shoreline. There is a forested limestone bluff located along the back edge of the property.

Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. Three state-listed plants occur on this parcel, Church’s wildrye (*Elymus churchii*), smooth belphilia (*Belphilia subnuda*), and limestone adder’s-tongue (*Ophioflossum engelmannii*). There is a moderate probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–131. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Marshall, Alabama
Topographic Map (Sheet No. and Quadrant)	76–SE
TVA D–Stage Map Numbers	224
Stream Mile and Bank	TRM 337.5–339L
Land Use/Land Cover	Forested limestone bluff, loblolly pine, and mixed hardwood forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 132 – (73.3 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located along the left descending bank of the Tennessee River and stretches from approximately TRM 334 to 337.5. The land cover consists of mixed hardwood and loblolly pine along the shoreline. There are areas of cleared vegetation and active vegetation management from back-lying property owners in the vicinity of Hobbs Island. The Tennessee River from TRM 333.4 to TRM 336.5 (Whitesburg Bridge to the southern, upstream tip of Hobbs Island) is a designated mussel sanctuary. Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–132. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SE
TVA D–Stage Map Numbers	223
Stream Mile and Bank	TRMs 334.1–337.6L
Land Use/Land Cover	Mixed hardwood, loblolly pine, and unauthorized vegetation management
Known Dispersed Recreation Opportunities	Bank fishing and reservoir access
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Mitigation of unauthorized vegetation management • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 133 – (4.0 acres)*Proposed RLMP Allocation: Zone 5, Industrial*

This parcel consists of a small tract of land located along the left descending bank of TRM 334. This parcel is encumbered with an easement to Rogers Group, LLC for a barge terminal. A narrow portion of this parcel has been cleared for the presence of cultural resources through phase II testing. The northwest portion of the tract has a high probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4–133. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SE
TVA D–Stage Map Numbers	222

Location Component and Public Involvement Opportunities	Parcel Specific Information
Stream Mile and Bank	TRM 334L
Land Use/Land Cover	Barge terminal
Current Agreements/Commitments	Term easement to Rogers Group, LLC for a barge terminal

Parcel 134 – (6.3 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located along the left descending bank of the Tennessee River between Whitesburg Bridge and TRM 334. The land cover consists of scrub hardwood forest and loblolly pine along the shoreline and eroding deposition–soil riverbank. The Tennessee River from TRM 333.4 to TRM 336.5 (Whitesburg Bridge to the southern, upstream tip of Hobbs Island) is a designated mussel sanctuary. Numerous federally and state-listed aquatic species have been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–134. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SE
TVA D–Stage Map Numbers	222
Stream Mile and Bank	TRM 333.5L
Land Use/Land Cover	Eroding deposition–soil riverbank, loblolly pine, and scrub hardwood forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 135 – (1.2 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along TRM 333.3L, and is encumbered by a ROW for Alabama SR 53 and U.S. Highway 231. Requests for private water use facilities would not be considered.

Table 4–135. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SE
TVA D–Stage Map Numbers	222
Stream Mile and Bank	TRM 333.3L
Land Use/Land Cover	Road ROW
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	Permanent easement to the State of Alabama for a road right-of-way
Potential Projects	None identified
Potential Partners	State of Alabama

Parcel 136 – (62.7 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This long, narrow, shoreline tract is located along the left descending bank of the Tennessee River extending between TRM 330.7 and the Whitesburg Bridge. The previous RLMP classified

the entire tract as prime farmland. The land cover is scrub hardwood and loblolly pine along the shoreline with an eroding deposition–soil riverbank. Upland wildlife habitat is considered fair for a variety of small game and nongame species. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–136. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SE
TVA D–Stage Map Numbers	220
Stream Mile and Bank	TRM 330.7–333.2L
Land Use/Land Cover	Eroding deposition–soil riverbank, loblolly pine, and scrub hardwood forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 137 – (342.6 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located along the left descending bank of the Tennessee River and extends between TRM 329 and 330.7. The land cover is bottomland hardwood forest with large tracts of planted loblolly pine. Forested and scrub-shrub wetlands occur in addition to ecologically diverse wildlife habitats that support a variety of wetland wildlife, including game and nongame species. It currently receives a moderate amount of big game hunting as well as a moderate–to–high amount of small game hunting, mostly raccoon and squirrel.

Adjacent land use is primarily agriculture and forestry. No federally or state-listed species or species of special status are known to occur on this parcel. There are potentially significant cultural resources found on this parcel; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-137. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SE
TVA D-Stage Map Numbers	220
Stream Mile and Bank	TRM 329-330.7L
Land Use/Land Cover	Bottomland hardwood forest with large tracts of planted loblolly pine
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 138 – (122.8 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This relatively large tract is located on the left descending bank of the Tennessee River at TRM 328.2 and along the left descending bank of Dry Creek. Forested and scrub-shrub wetlands occur in addition to ecologically diverse wildlife habitats that support a variety of game and nongame species. Much big and small game hunting occurs here. Bottomland hardwood is the dominant forest condition and includes multiple age classes of sweetgum, ash, red oak, willow oak, and hickory. The adjacent land use is primarily agriculture and forestry. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of significant cultural resources; however, a comprehensive

archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–138. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SW
TVA D–Stage Map Numbers	221 and 246
Stream Mile and Bank	TRM 327.6–328.2L
Land Use/Land Cover	Bottomland hardwood forest and forested and scrub-shrub wetlands
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 139 – (3.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Management

This small linear tract is located below the 560-foot msl contour. The land cover is scrub hardwood and planted loblolly pine forest along an eroding deposition–soil riverbank. This parcel fronts former TVA property sold without egress and ingress rights. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–139. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SW
TVA D–Stage Map Numbers	246
Stream Mile and Bank	TRM 327.7L
Land Use/Land Cover	Eroding deposition–soil riverbank, planted loblolly pine, scrub hardwood forest
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries
Potential Partners	None identified

Parcel 140 – (3.8 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is a safety harbor located at TRM 327.3L. Safety harbors are available for barges and recreational boats during adverse weather conditions or equipment malfunction. There is a high probability for the presence of cultural resources. Future development of this tract will be restricted, and requests for private water use facilities would not be considered.

Table 4–140. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SW
TVA D–Stage Map Numbers	246
Stream Mile and Bank	TRM 327.3L
Land Use/Land Cover	Deciduous forest and pines
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	Survey for historic properties
Potential Partners	None identified

Parcel 141 – (46.7 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This noncontiguous parcel is located along the left descending bank of the Tennessee River and stretches from approximately TRM 325.5 to 327. The entirety of the parcel fronts former TVA property that was sold without the rights for water use facilities. The land cover along the Tennessee River is scrub hardwood forest with an eroding deposition–soil riverbank. The parcel also includes property surrounding two small inlets. The land cover in those areas includes forested and scrub-shrub wetlands. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–141. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SW
TVA D–Stage Map Numbers	246
Stream Mile and Bank	TRM 325.5–327L
Land Use/Land Cover	Eroding deposition–soil riverbank, planted loblolly pine, scrub hardwood forest
Known Dispersed Recreation Opportunities	Hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 141a – (0.5 acre)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is located along the left descending bank of the Tennessee River and encompassed by Parcel 141. The parcel begins at Johnson Landing Road and follows the 560-foot msl contour downstream for approximately 551 feet. The Morgan County, Alabama, tax parcel 09-03-05-0-000-004.001 is located behind this parcel. There is a high probability for cultural resources, but the parcel has not been surveyed for historic properties. One water use facility has been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4–141a. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–SW
TVA D–Stage Map Numbers	246
Stream Mile and Bank	TRM 326.9L
Land Use/Land Cover	Maintained lawn
Fronts Former TVA Tract (s)	XWR–313
Structure Profile	576-foot msl contour
Current Agreements/Commitments	Approved water use facility

Parcel 142 – (15.0 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This small tract is located along the left descending bank of the Tennessee River between TRM 325 and 325.5. The land cover is composed of fractured limestone boulders, is typically dry, and contains some areas of cedar-hardwood forest with a diverse shrub and ground plant understory. Wildlife habitats support a variety of small game and nongame species, including birds and reptiles. Lewis Bluff has good access from a county road, and a dirt parking area is

available for informal recreational users. A trail leads from the parking area to a medium high bluff that provides a long view of the reservoir.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-142. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SW
TVA D-Stage Map Numbers	219
Stream Mile and Bank	TRM 325.3L
Land Use/Land Cover	Limestone bluff with mixed hardwood and loblolly pine forest
Known Dispersed Recreation Opportunities	Hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 143 – (1.1 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel is isolated from the reservoir. It is located northeast of the Grindle Hole (Cotaco Creek) and Sharps Fords Bridge. The parcel is located on the south side of the road and is covered in pine trees. There is a moderate probability for the presence of cultural resources, and a potential project would be surveying the parcel for historic properties.

The 1995 RLMP recommended this parcel as a candidate for surplus and disposal. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4-143. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SW
TVA D-Stage Map Numbers	215
Stream Mile and Bank	<ul style="list-style-type: none"> • Cotaco Creek Mile 1.8R • TRM 319.1L
Land Use/Land Cover	Pine trees
Current Agreements/Commitments	None identified

Parcel 144 – (724.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This large tract includes both sides of Cotaco Creek and the islands from mile 1.9 (Sharps Ford Bridge) to 5.8. A diversity of forest types and age classes characterize this tract; bottomland hardwood (cherrybark and water oak, sweetgum, and hickory) dominates over one-half of the area and is located along the creek, where highly productive soils prevail. Upland hardwood and loblolly pine are found in pure and mixed stands on the upper slopes and ridges where soils are medium in productivity. Over 50 acres of planted loblolly pine still remain on the tract.

Several factors provide for an abundance of wildlife habitat on this tract: diverse topography and forest cover, desirable flooding regime, and the remoteness of the area. Wheeler Refuge lies immediately downstream and, although hunting is permissible on TVA lands, the tract provides additional wintering habitat for migratory waterfowl. Wood ducks use the riparian zones for nesting and brood rearing, while such wintering waterfowl as mallards and black ducks use substantial quantities of oak mast as a food source. Flooded bottoms also provide habitat for mammals that use aquatic habitats species such as beaver, mink, muskrat, and raccoon. Much big and small game hunting occurs here, including waterfowl hunting.

The state-listed species bald eagle (*Haliaeetus leucocephalus*) actively nests on this parcel. A cave also occurs on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-144. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SW
TVA D-Stage Map Numbers	215 and 216
Stream Mile and Bank	Cotaco Creek Mile 2.9B
Land Use/Land Cover	Bottomland hardwood forest with scattered tracts of planted loblolly pine
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 145 – (59.9 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located on both sides of Cotaco Creek between stream miles 5.8 and 6.4. The old Grantland Bridge dissects the parcels. A developed stream access site at this location would provide additional recreation opportunities for paddle sports, fishing and hunting as paddlers traverse approximately five miles to the WNWR boat ramp at Sharps Ford Bridge.

This parcel has a moderate probability for the presence of cultural resources, and a systematic surveyed for historic properties should occur. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–145. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D–Stage Map Numbers	216
Stream Mile and Bank	Cotaco Creek Mile 5.8B

Parcel 146 – (91.6 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This parcel is the Cotaco Creek TVA SWA. The property extends from approximately Cotaco Creek Mile 6.4 to 7.1 (Lower Bridge Road Bridge). Mature, large sawtimber upland hardwood that exceed 120-years in age dominates the area, with white, scarlet, and black oak and hickory prevailing on the drier, upper slopes and yellow-poplar and northern red oak on the rich coves and north-facing slopes. A 50-year-old loblolly pine plantation is situated on the southern portion of the tract and totals about 13 acres. Exposed limestone shelves and possibly a cave entrance are prominent geological features. A diversity of wildflowers, including wild geranium, wood betony, trillium, false Solomon's seal, and pipsissewa enhances the natural beauty of this area. An informal trail meanders along the creek and provides access for fishermen.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–146. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75–NW
TVA D–Stage Map Numbers	216
Stream Mile and Bank	Cotaco Creek Mile 6.4B
Land Use/Land Cover	Bottomland hardwood forest with limestone bluffs and scattered tracts of planted loblolly pine
Known Dispersed Recreation Opportunities	Hiking and hunting

Location Component and Public Involvement Opportunities	Parcel Specific Information
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 147 – (4.5 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Cotaco Creek, a tributary to TRM 319.1L, and is encumbered by a ROW for Upper River Road. Requests for private water use facilities would not be considered.

Table 4-147. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	76-NW
TVA D-Stage Map Numbers	216 and 253
Stream Mile and Bank	<ul style="list-style-type: none"> • Cotaco Creek Mile 7.1B • TRM 319.1L
Land Use/Land Cover	Road right-of-way
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	Permanent easement to the Morgan County, Alabama for a road ROW
Potential Projects	None identified
Potential Partners	Morgan County, Alabama

Parcel 148 – (425.8 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This large parcel consists of shoreland and islands along both banks of Cotaco Creek. It is bordered on the north by Lower River Road and on the south by U.S. Highway 36. The land cover is dominated by forested wetlands, bottomland hardwoods, and some stands of mature loblolly pine. Wildlife habitats, including riparian zones, are good-to-excellent for a variety of species, including wood ducks and other waterfowl, wading birds, and mammals that use aquatic habitats ; and forest management opportunities are exceptional, particularly within the higher-quality, mature hardwood and pine stands. Much big and small game hunting occurs here. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-148. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	76-NW
TVA D-Stage Map Numbers	253
Stream Mile and Bank	Cotaco Creek Mile 8.1B
Land Use/Land Cover	Bottomland hardwood forest with scattered tracts of planted loblolly pine
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 149 – (4.5 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Cotaco Creek, a tributary to TRM 319.1L, and is encumbered by ROWs for U.S. Highway 36, Red Oak Road, and a TL. Requests for private water use facilities would not be considered.

Table 4-149. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	76-NW
TVA D-Stage Map Numbers	254
Stream Mile and Bank	<ul style="list-style-type: none"> • Cotaco Creek Mile 11B • TRM 319.1L
Land Use/Land Cover	Road ROW
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to the Morgan County, Alabama for a road right-of-way • Permanent easement to Joe Wheeler Electric Membership Cooperative for electric utilities
Potential Projects	None identified
Potential Partners	Morgan County, Alabama

Parcel 150 – (4.5 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the right descending bank of Cotaco Creek with its northern boundary as U.S. Highway 36. The property provides an opportunity to develop stream access to Cotaco Creek for paddles sports, float fishing, and hunting. Joe Wheeler Electric Membership Cooperative currently has an easement for use of a portion of this property. This parcel has moderate probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–150. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D–Stage Map Numbers	254
Stream Mile and Bank	Cotaco Creek Mile 11.2R

Parcel 151 – (165.7 acres)*Proposed RLMP Allocation: Zone 3, Sensitive Resource Management*

This parcel encompasses both sides of Cotaco Creek and stretches from approximately mile 10.3 to 11. The tract is dominated by forested wetlands, bottomland hardwoods, and some stands of mature loblolly pine. Wildlife habitats, including riparian zones, are good to excellent for a variety of species, including wood ducks and other waterfowl, wading birds, and wetland mammals that use aquatic habitats, and forest management opportunities are exceptional, particularly within the higher-quality mature hardwood and pine stands. Much big and small game hunting occurs here.

There is a large, two-story, early nineteenth century house adjacent to this tract, which was restored in the early 1990's. It once served as the county courthouse before the county seat was moved to Somerville. Other surrounding structures include early twentieth-century farmhouses.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–151. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	76–NW
TVA D–Stage Map Numbers	254
Stream Mile and Bank	Cotaco Creek Mile 10.3–11B
Land Use/Land Cover	Bottomland hardwood and pine forest

Location Component and Public Involvement Opportunities	Parcel Specific Information
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 152 – (182.2 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located at the uppermost reach of the Cotaco Creek embayment. The land cover is dominated by forested wetlands, bottomland hardwoods, and some stands of mature loblolly pine. Wildlife habitats, including riparian zones, are good to excellent for a variety of species, including wood ducks and other waterfowl, wading birds, and mammals that use aquatic habitats, and forest management opportunities are exceptional, particularly within the higher-quality mature hardwood and pine stands. Much big and small game hunting occurs here. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-152. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	76-NW
TVA D-Stage Map Numbers	254
Stream Mile and Bank	Cotaco Creek Mile 11.1B
Land Use/Land Cover	Bottomland hardwood forest
Known Dispersed Recreation Opportunities	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 153 – (6.3 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This small parcel consists of three noncontiguous tracts of land located along Town Creek. The land cover consists of bottomland hardwood forest and wetlands. Wildlife habitats, including riparian zones, are good-to-excellent for a variety of species, including wood ducks and other waterfowl, wading birds, and mammals that use aquatic habitats. It currently receives a moderate amount of big game hunting as well as a moderate-to-high amount of small game hunting, mostly raccoon and squirrel. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–153. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	76–NW
TVA D–Stage Map Numbers	253 and 254
Stream Mile and Bank	Town Creek Mile 1.3L
Land Use/Land Cover	Bottomland hardwood forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 154 – (2.9 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel consists of two noncontiguous tracts of land that were transferred back to TVA from USFWS, WNWR. The land cover is mixed pine and hardwood forest with some vegetation management from the back-lying property owners. No federally or state-listed species or species of special status are known to occur on this parcel. There is a low probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-154. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	75-SW
TVA D-Stage Map Numbers	211 and 215
Stream Mile and Bank	Cotaco Creek Mile 1.8L
Land Use/Land Cover	Mixed pine and hardwood forest with unauthorized vegetation management
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Mitigation for unauthorized vegetation management • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 155 – (14.9 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel consists of two noncontiguous tracts of land located along Alabama SR 67 (Point Mallard Parkway). The land cover is mixed hardwood and pine forest. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-155. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	68-SW
TVA D-Stage Map Numbers	199
Stream Mile and Bank	Flint Creek Mile 4.5R
Land Use/Land Cover	Mixed hardwood and pine forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 156 – (25.6 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is comprised of multiple disjointed pieces of property located along five locations along Flint Creek, a tributary to Tennessee River mile 308.4L. This parcel is encumbered by ROWs for U.S. Highway 31, Alabama SR 3, and Norris Mill Road. Requests for private water use facilities would not be considered.

Table 4–156. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	68–SW and 69–NW
TVA D–Stage Map Numbers	192, 193, 194, and 195
Stream Mile and Bank	<ul style="list-style-type: none"> • West Flint Creek Mile 1.8B • Flint Creek Miles 8L, 9L, 10.2L, and 13.5 • Tennessee River mile 308.4L
Land Use/Land Cover	Road ROW
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to the Morgan County, Alabama for a road right-of-way • Permanent easements to the State of Alabama for a road right-of-way
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • Morgan County, Alabama • State of Alabama

Parcel 157 – (4.7 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the right descending bank of Flint Creek with U.S. Highway 31 as the east boundary and access by Bowles Bridge Road. This parcel is encumbered with a permanent easement to the State of Alabama for public recreation purposes. It is improved with an access road, parking lot, and boat ramp. This parcel has a moderate probability for the

presence of cultural resources in undisturbed areas. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–157. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D–Stage Map Numbers	195
Stream Mile and Bank	Flint Creek Mile 13.4–13.8R

Parcel 158 – (132.8 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is the Anvil Cave TVA HPA. The land cover consists of bottomland hardwood forest aging approximately 100 years with back-lying limestone bluff. Anvil Cave is recognized as a significant geologic feature by the National Natural Landmark Program (administered by the National Park Service). The cave is the best developed and most complex maze cave in the U.S. and the longest maze cave in the eastern U.S. There are reportedly seven entrances to the cave, with one or more located on this parcel. The state-listed southern cavefish (*Typhlichthys subterraneus*) and ground beetle (*Pseudanophthalmus distinguens*) have been found on this parcel. The cave is not suitable for developed public use because of its sensitive habitat and it is considered dangerous. The area downstream from the cave is geologically scenic and has an abundance of spring wildflowers.

There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–158. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	69–NW
TVA D–Stage Map Numbers	195
Stream Mile and Bank	Flint Creek Mile 13.8–16.9R

Location Component and Public Involvement Opportunities	Parcel Specific Information
Land Use/Land Cover	Bottomland hardwood forest and forested limestone bluff
Known Dispersed Recreation Opportunities	Hiking, hunting, primitive camping, and spelunking
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 159 – (39.5 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the right descending bank of Flint Creek. The land cover consists of scattered hardwood and pine forests, seasonally flooded timber, and scrub shrub wetlands. The rock bluffs along the river bank of this tract are very important to the scenic beauty of this section of Flint Creek. Because these bluffs are located in the bend of the river, they also provide a landmark to both upstream and downstream travelers on the river.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-159. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	69-NW
TVA D-Stage Map Numbers	195 and 250
Stream Mile and Bank	Flint Creek Mile 16.9-17.9R
Land Use/Land Cover	Mixed hardwood and pine forest

Location Component and Public Involvement Opportunities	Parcel Specific Information
Known Dispersed Recreation Opportunities	Hiking, hunting, primitive camping, and spelunking
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 160 – (11.0 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is comprised of multiple disjointed pieces of property located along No Business Creek and Flint Creek, tributaries to TRM 308.4L. This parcel is encumbered by ROWs for U.S. Highway 36, Forest Chapel Road, and Vaughn Bridge Road. Requests for private water use facilities would not be considered.

Table 4-160. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	69-NW
TVA D-Stage Map Numbers	250
Stream Mile and Bank	<ul style="list-style-type: none"> • No Business Creek Mile 1B • Flint Creek Miles 17B and 20B • Tennessee River mile 308.4L
Land Use/Land Cover	Road ROWs
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	Permanent easements to the Morgan County, Alabama for a road right-of-way
Potential Projects	None identified
Potential Partners	Morgan County, Alabama

Parcel 161 – (614.9 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel encompasses all of the TVA property from Flint Creek mile 18 to 22 with the exception of road crossings and Parcel 162 (Developed Recreation). The land cover consists of bottomland hardwood and pine forest, wetlands, and steep limestone bluffs along the creek.

Hardwoods make up more than half of the forest resource, with upland species dominant on the slopes and drier sites and bottomland species on the bottoms. Also present are scattered, mixed pine-hardwood and pure pine stands. Because of the diverse forest types and the natural flooding regime, capability for wildlife management is excellent. Native and wintering waterfowl are prominent in the flooded areas, and mammals that use aquatic habitats are found in the riparian habitats. White-tailed deer and gray squirrel are also present in good numbers.

From Flint Creek mile 20 to 22, there are a diversity of forest types is present; however, bottomland hardwood, which occupies the richer sites along the creek bottom, comprises the largest segment. The upper slopes are characterized by upland hardwood, upland hardwood-pine mixtures, and scattered pure pine stands. The forest age structure varies from large mature trees that range from 75 to 115 years old to younger trees of pole size. Wintering waterfowl use this flood prone area for foraging, while other species, such as wood ducks, nest and raise their broods along the creek. The natural flooding regime and bottomland hardwood provide excellent wetland wildlife habitat for species such as beaver, muskrat, mink, and raccoon. Good populations of gray squirrel and white-tailed deer are also present on the tract.

Along No Business Creek, most of the forest averages about 80 years old. The bottomland hardwood on this portion of the parcel is important to many different types of wildlife. Periodic flooding in the lowland areas provides excellent nesting and brood rearing habitat for wood ducks, and wintering waterfowl use these areas for foraging mast. Wetland species, such as beaver, mink, muskrat, and raccoon, are also plentiful along this flood prone portion of the parcel, as are white-tailed deer and gray squirrel. Scattered stands of loblolly pine and upland hardwood provide habitat diversity, which is very important to wildlife species. Much big and small game hunting occurs here.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a

comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-161. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	69-NW
TVA D-Stage Map Numbers	250
Stream Mile and Bank	<ul style="list-style-type: none"> • Flint Creek Miles 18-22B • Crowabout Creek Miles 0-1B • No Business Creek Miles 0-2B
Land Use/Land Cover	Bottomland hardwood forest and steep limestone bluffs
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and primitive camping
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 162 – (12.8 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the left descending bank of Flint Creek and downstream of Woodall Bridge (Alabama SR 36). The topography and access to the parcel provides an opportunity to develop a public stream access for paddle sports, float fishing, and hunting. The Flint Creek corridor lends itself to future development of a Blueway by connecting various public lands and boat ramps sites. The undisturbed portions of this parcel have a moderate probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-162. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D-Stage Map Numbers	250
Stream Mile and Bank	Flint Creek Mile 20L

Parcel 163 – (7.9 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located along the left descending bank of Flint Creek and is adjacent to Vaughn Bridge Road which provides access. The topography and access would support development for public stream access. A portion of the parcel is encumbered by a revocable license to Morgan County, Alabama for public recreation. The Flint Creek corridor lends itself to future development of a Blueway by connecting various public lands and boat ramps sites. This parcel has a moderate probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-163. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D-Stage Map Numbers	250
Stream Mile and Bank	Flint Creek Mile 17.9L

Parcel 164 – (39.7 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the left descending bank of the Flint Creek. The land cover is mixed hardwood and pine forest. The forest cover is dominated by planted loblolly pine; however, some upland and bottomland hardwood is present. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted.

There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-164. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	69-NW
TVA D-Stage Map Numbers	195 and 250
Stream Mile and Bank	Flint Creek Miles 16.5-17.8L
Land Use/Land Cover	Mixed hardwood and pine forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 165 – (27.2 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is the English Ivy TVA SWA stretching along the left descending bank between Flint Creek miles 15.8 to 16.5. The land cover is hardwood forest limestone bluff with bottomland hardwood forest along the creek. No federally or state-listed species or species of special status are known to occur on this parcel, however a cave is known immediately adjacent to this parcel (60 feet). There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-165. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	69-NW
TVA D-Stage Map Numbers	249
Stream Mile and Bank	Flint Creek Miles 15.8-16.5L
Land Use/Land Cover	Hardwood forest and limestone bluff
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 166 – (119.4 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the left descending bank of Flint Creek. The land cover consists of mixed hardwood and pine forest with bottomland hardwood forest along some portions of the creek. Typical tree species found on the creek floodplain are water, willow, and cherrybark oak, sweetgum, ash, and red maple, while the upland areas are forested in white oak, southern red oak, and hickory. Much of the hardwood is at or approaching maturity and ranges from 70 to 115 years old. A variety of wildlife species inhabit and use these diverse forest conditions. Waterfowl and mammals that use aquatic habitats are prevalent on the more flood prone areas, while healthy populations of white-tailed deer and gray squirrel occur in moderate numbers on both the upland and bottomland areas.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–166. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	69–NW
TVA D–Stage Map Numbers	195 and 249
Stream Mile and Bank	Flint Creek Mile 13.6–15.8L
Land Use/Land Cover	Mixed hardwood and pine forest
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 167 – (4.7 acres)*Proposed RLMP Allocation: Zone 6, Developed Recreation*

This parcel is located along the right descending bank of West Flint Creek at the confluence of Flint Creek. Bowles Bridge Road serves as the parcel's southern boundary and is access to the parcel. The parcel is encumbered by a permanent easement to the State of Alabama for public recreation purposes. Although the parcel is unimproved, the property provides an area for dispersed recreation use including bank fishing, primitive camping and hand launch stream access. This parcel has a high probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–167. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D–Stage Map Numbers	195
Stream Mile and Bank	West Flint Creek Mile 0–0.3R

Parcel 168 – (717.2 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel includes all of the TVA property located along and the islands within West Flint Creek. The road crossings are not included within this parcel. The land cover consists of bottomland hardwood forest with scattered tracts of planted loblolly pines and wetlands.

The bottomland hardwood on this tract is important to many different types of wildlife. Periodic flooding in the lowland areas provides excellent nesting and brood-rearing habitat for wood ducks, and wintering waterfowl use these areas for foraging mast. Such wetland species as beaver, mink, muskrat, and raccoon are also plentiful along this flood prone tract, as well as white-tailed deer and gray squirrel. Scattered stands of loblolly pine and upland hardwood provide habitat diversity, which is very important to wildlife species. A large amount of big and small game hunting occurs here.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-168. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	69-SW
TVA D-Stage Map Numbers	193, 194, 195, and 249
Stream Mile and Bank	<ul style="list-style-type: none"> • Flint Creek Mile 13.5L • West Flint Creek Miles 0-4B
Land Use/Land Cover	Bottomland hardwood forest with scattered tracts of planted loblolly pine
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Survey for historic properties
Potential Partners	None identified

Parcel 169 – (3.6 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel is isolated from the reservoir. The northern boundary of the parcel runs along a drainage ditch that empties into Flint Creek. The eastern boundary has suitable road access fronting U.S. Highway 31, three miles south of Alabama SR 31. An existing railroad line runs behind the tract to the west. A transmission line crosses the southern portion of the parcel, and the southern boundary abuts private property currently used for an automotive salvage yard, near the southern boundary. There is a moderate probability for the presence of cultural resources, and a possible project would be surveying the parcel for historic properties.

The 1995 RLMP recommended this parcel as a candidate for surplus and disposal. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4-169. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	68-SW
TVA D-Stage Map Numbers	193
Stream Mile and Bank	Flint Creek Mile 10.2L
Land Use/Land Cover	Pine trees and scrub-shrub vegetation
Current Agreements/Commitments	Permanent easement to the State of Alabama for a road ROW

Parcel 170 – (2.7 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Flint Creek, tributaries to TRM 308.4L. A portion of the parcel is encumbered by a ROW for County Club Road. There is a low probability for cultural resources due to extensive ground disturbance. Requests for private water use facilities would not be considered.

Table 4–170. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	68–SW
TVA D–Stage Map Numbers	191
Stream Mile and Bank	<ul style="list-style-type: none"> • Flint Creek Mile 2.6L • TRM 308.4L
Land Use/Land Cover	Road rights–of–way
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to Morgan County, Alabama for a road ROW • Permanent easement to the City of Decatur, Alabama for a sewer line
Potential Projects	None identified
Potential Partners	None identified

Parcel 171 – (420.7 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is Point Mallard Park and is located along the left descending bank of the Tennessee River at the confluence of Flint Creek. The property is encumbered by a permanent easement to the City of Decatur, Alabama, for public recreation. Point Mallard has amenities that include a campground, bathhouses, theme park, children’s playground, golf course, restaurant, swimming pool, beach, tennis courts, restrooms, picnic area, and trails. Additional information pertaining to Point Mallard can be found its Web site,

<http://www.pointmallardpark.com/>. The Alabama state champion buttonbush also occurs on this parcel.

Undisturbed portions of this parcel have a high probability for the presence of cultural resources, and this parcel has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-171. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D-Stage Map Numbers	197 and 198
Stream Mile and Bank	TRM 308.2L

Parcel 172 – (7.8 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel consists of a string of small sand and gravel islands located between TRMs 306.8 and 308. The land cover consists of scrub-shrub and emergent wetland vegetation. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-172. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	68-SW
TVA D-Stage Map Numbers	197
Stream Mile and Bank	TRM 307.5L
Land Use/Land Cover	Sand and gravel islands with scrub-shrub and emergent wetlands
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	Systematic survey to evaluate the condition of historic properties
Potential Partners	None identified

Parcel 173 – (10.0 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is the Riverwalk Yacht Club and is located along the causeway for U.S. Highway 31, U.S. Highway 72, and Alabama SR 20. The parcel lies adjacent to former TVA property (Tract No. XTWR-64) that was transferred to the City of Decatur, Alabama, for public recreation purposes. Amenities include a full service marina, restaurant, bathhouses, boat ramp, and picnic area. Additional information about this parcel can be found on the Riverwalk Yacht Club’s Web site, <http://riverwalkyc.org/default.htm>.

Undisturbed portions of this parcel have a high probability for the presence of cultural resources, and a Native American memorial is present on this parcel. There have been known Archaeological Resource and Protection Act violations on this and adjacent parcels, and any ground disturbing activities must be coordinated with TVA prior to construction. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-173. Parcel Information

Location Component	Parcel Specific Information
County, State	Limestone, Alabama
TVA D-Stage Map Numbers	189
Stream Mile and Bank	Tennessee River mile 305

Parcel 174 – (15.5 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is a string of sand and gravel islands stretching from TRM 301 to 304.6. The land cover consists of emergent, forested, and scrub-shrub wetlands. The islands and surrounding

shallow water overbank areas support mudflat and riparian/wetland fringe habitats used by a variety of water-oriented and semi-aquatic wildlife species. These species generally include migrant-wintering waterfowl, water birds, and shorebirds, as well as resident wading birds and furbearing mammals relatively tolerant of nearby disturbance from Decatur waterfront industrial development. No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-174. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone and Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NE
TVA D-Stage Map Numbers	186
Stream Mile and Bank	TRM 302L
Land Use/Land Cover	Sand and gravel islands with forested, scrub-shrub, and emergent wetlands
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 175 – (16.7 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel includes the City of Decatur's wastewater treatment plant and road ROWs for U.S. Highway 72 and Alabama SR 20. There is a low probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4-175. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NE, 61-SE, 68-NW, and 68-SW
TVA D-Stage Map Numbers	186
Stream Mile and Bank	TRM 303.1L
Land Use/Land Cover	Parking, road ROW, and wastewater treatment plant
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to Alabama-Tennessee Natural Gas Company for a pipeline • Permanent easements to the City of Decatur, Alabama for sewer lines, wastewater treatment plants, and water utilities • Permanent easement to the State of Alabama for a road right-of-way
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • Alabama-Tennessee Natural Gas Company • City of Decatur, Alabama • State of Alabama

Parcel 176 – (3.5 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel consists of two noncontiguous tracts of land along both descending banks of Dry Branch. The property is encumbered by a revocable license to the City of Decatur, Alabama, for a hiking trail. The improved trails on this parcel serve as connector segments for much larger trail systems in Decatur. This parcel has a moderate probability for the presence of cultural resources; however, it has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-176. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D-Stage Map Numbers	186
Stream Mile and Bank	Dry Creek Mile 0.5B

Parcel 177 – (17.0 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This noncontiguous parcel is located along the left descending banks of Dry Branch and Tennessee River mile 302.8. R&L Carriers, Tennessee Valley Recycling, and a portion of the old Ingalls Shipyard are located on the adjacent back-lying property. Tennessee Valley Recycling historically utilized a portion of this property; however, industrial operations on this parcel have ceased. There is a moderate probability for the presence of cultural resources in undisturbed areas, and a potential project would be a survey for historic properties. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4-177. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NE, 61-SE, and 68-SW
TVA D-Stage Map Numbers	186
Stream Mile and Bank	TRM 302.8L
Land Use/Land Cover	Scrub-shrub vegetation
Current Agreements/Commitments	None identified

Parcel 178 – (4.1 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is Jay Landings Marina and RV park and is located along the right descending bank of Betty Rye Branch at the confluence with the Tennessee River. The parcel is adjacent to

former TVA property (Tract Nos. XWR-505 and XWR-550). Amenities include a full service marina, campground, bathhouse, boat ramp, courtesy dock, fishing pier, and picnic area. Additional information pertaining to Jay Landings Marina can be found its Web site, <http://www.jaylandingsmarina.com/>.

This parcel has a low probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-178. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D-Stage Map Numbers	186
Stream Mile and Bank	<ul style="list-style-type: none"> • Betty Rye Branch 0.3-0.8R • TRM 302.9L

Parcel 179 – (7.8 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located along Betty Rye Branch, a tributary to TRM 302.9L. This parcel is encumbered by ROWs for U.S. Highway 72 and Alabama SR 20. Requests for private water use facilities would not be considered.

Table 4-179. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	61-SE
TVA D-Stage Map Numbers	186
Stream Mile and Bank	<ul style="list-style-type: none"> • Betty Rye Branch 0.9B • TRM 302.9L
Land Use/Land Cover	Road ROWs
Known Dispersed Recreation Opportunities	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to the Alabama–Tennessee Natural Gas Company for a pipeline • Permanent easements to the City of Decatur for electric and water utilities • Permanent easement to the State of Alabama for a road ROW • Permanent easement to a Perrylanding, Inc. for a road ROW
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • City of Decatur, Alabama • Alabama–Tennessee Natural Gas Company • Perrylanding, Inc

Parcel 180 – (14.0 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel is located along both banks of Betty Rye Branch, a tributary to TRM 302.7. Tennessee Valley Recycling is the adjacent property owner to the east; and YRC, Mobil Lubricants, and Roadway are the adjacent property owners to the west. There is an existing railroad line that borders the property to the south. There is a low probability of cultural resources. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4–180. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	61–SE
TVA D–Stage Map Numbers	186
Stream Mile and Bank	TRM 302.8L
Land Use/Land Cover	Scrub-shrub vegetation
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easement to Marks Oxygen Company for a railroad • Permanent easement to Southern Region Industrial Realty, Inc. for a railroad • Revocable license to the City of Decatur, Alabama for a sewer line

Parcel 181 – (5.2 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is Pines Park and is located along the right descending bank of Betty Rye Branch. This parcel follows the 560-foot msl contour and adjoins former TVA property (Tract No. XWR-437). It is bordered on the north by the Southern Railroad Tracks, south by 5th Street NW, and on the east by an existing subdivision. This parcel provides green space and transition buffer between residential properties and industrial properties in West Decatur. The property is encumbered by a revocable license agreement with the Decatur Utilities for sewer utilities. Facilities include a parking lot, walking track, picnic pavilions, play court, children’s playground, and picnic area. This parcel has a moderate probability for the presence of cultural resources; however, it has not been surveyed for the presence of historic properties. Requests for use of TVA lands to support developed recreation purposes would be considered.

Table 4–181. Parcel Information

Location Component	Parcel Specific Information
County, State	Morgan, Alabama
TVA D–Stage Map Numbers	186
Stream Mile and Bank	Betty Rye Branch Mile 1.2R

Parcel 182 – (222.6 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel consists of multiple tracts of land stretching along the right descending bank of Tennessee River mile 297.4 to 302.8. For the most part, this parcel fronts existing industrial sites such as Mallard-Fox Creek Industrial Park, Decatur-Morgan County Port, Decatur State Docks, bp, 3M, and Solutia to name a few. Portions of this parcel have not been adequately surveyed for historic properties, and there is a moderate probability for the presence of historic properties. One known historic cemetery is present. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4–182. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NE and 61–SE
TVA D–Stage Map Numbers	182, 185, and 186
Stream Mile and Bank	TRMs 297.4 – 302.8L
Land Use/Land Cover	Grassland, industrial, scrub-shrub vegetation, and wetlands
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easements to Alabama-Tennessee Natural Gas Company for a natural gas pipeline • Permanent easements to Decatur-Morgan County Port for a barge terminal and industrial site • Permanent easements to the City of Decatur, Alabama, for a railroad and road rights-of-way • Permanent easement to Minnesota Mining and Manufacturing Company for a railroad

Parcel 183 – (2.0 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is a series of small sand and gravel islands located between TRMs 299 and 300. The land cover consists of scattered scrub hardwoods and scrub-shrub wetlands. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–183. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Limestone, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NE
TVA D–Stage Map Numbers	181 and 185
Stream Mile and Bank	TRM 299.5B
Land Use/Land Cover	Sand and gravel islands with forested, scrub-shrub, and emergent wetlands

Location Component and Public Involvement Opportunities	Parcel Specific Information
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Survey to evaluate condition of cultural resources
Potential Partners	None identified

Parcel 184 – (1,391.8 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel includes portions of the Mallard-Fox WMA. The property is located along the left descending bank of the Tennessee River and between the Mallard-Fox Industrial Park and Mallard Creek embayment. The parcel lies within both Lawrence and Morgan counties in Alabama. This parcel features a mixture of bottomland forest; loblolly pine plantation; forested, scrub-shrub and emergent wetlands; agricultural lands; and open water.

The parcel is encumbered by a term easement to the State of Alabama for wildlife management. Public access is available by boat to portions of this parcel; in addition, roads have been established through portions of the parcel to improve accessibility. However, access to the parcel is regulated and managed by ADCNR.

Management emphasis is on providing small and big game hunting opportunities; but some waterfowl management occurs. The area also receives substantial use for fishing in the flooded embayment. The area is also used for wildlife observation opportunities. Dispersed recreation use of this parcel is regulated and managed by ADCNR with hunting, fishing, and wildlife observation occurring.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, an archaeological survey has not been conducted. Requests for private water use facilities would not be considered.

Table 4–184. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence and Morgan, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NE
TVA D–Stage Map Numbers	175, 177, 178, 179, 181, and 182
Stream Mile and Bank	TRM 295.8L
Land Use/Land Cover	Mixed land use types managed for wildlife
Known Dispersed Recreation Opportunities	Bank fishing, hiking, hunting, and wildlife observation
Current Agreements/Commitments	Term easement to the State of Alabama for a wildlife management area
Potential Projects	Systematic survey for historic properties
Potential Partners	None identified

Parcel 185 – (8.4 acres)*Proposed RLMP Allocation: Zone 2, Project Operations*

This parcel is comprised of multiple disjointed pieces of property located along Mallard Creek, a tributary to TRM 293.6L. ROWs for Lawrence CR 400 (Mallard Creek Road) and Lawrence CR 442 encumber this parcel. Requests for private water use facilities would not be considered.

Table 4–185. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NW
TVA D–Stage Map Numbers	175
Stream Mile and Bank	<ul style="list-style-type: none"> • Mallard Creek Miles 0.2–1.3B • TRM 293.6L
Land Use/Land Cover	Road ROWs
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easements to Lawrence County, Alabama for a road right-of-way • Permanent easement to the State of Alabama for a road right-of-way
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • Lawrence County, Alabama • State of Alabama

Parcel 186 – (3.1 acres)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is land located along the right descending bank of the Mallard Creek. The tract extends between TVA markers 175-110 to 175-113. This parcel lies entirely below the 560-foot msl, and the current land use is deciduous forest and maintained lawns. There is a moderate probability for the presence of cultural resources. Mallard Creek Fish Camp is located on the back-lying private property. Water use facilities have been constructed along the shoreline, and future requests for private water use facilities would be considered.

Table 4-186. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NW
TVA D-Stage Map Numbers	175
Stream Mile and Bank	Mallard Creek 0.7R
Land Use/Land Cover	Deciduous forest and maintained lawns
Fronts Former TVA Tract (s)	XWR-428
Structure Profile	560-foot mean sea level
Current Agreements/Commitments	<ul style="list-style-type: none"> • Approved water use facilities • Term license agreement to Joe Wheeler Electric for a transmission line • Permanent easement to Lawrence County, Alabama, for a roadway

Parcel 187 – (209.2 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is the uppermost portion of the Mallard Creek embayment. The land cover consists of hardwood forest, loblolly pine stands, forested wetlands along the reservoir edge, and internal sinkholes. Historic cemeteries and homesteads are on this parcel. No federally or state-listed species or species of special status are known to occur on this parcel. One historic record of the state-listed Tuscumbia darter (*Etheostoma tucsumbia*) was recorded on this parcel in 1934. There is a high probability for the presence of cultural resources; however, a comprehensive

archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–187. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NW
TVA D–Stage Map Numbers	175
Stream Mile and Bank	Mallard Creek Mile 1.9B
Land Use/Land Cover	Forested wetlands, hardwood forest, internal sinkholes and springs, and scattered loblolly pine
Known Dispersed Recreation Opportunities	Bank fishing, hunting, and wildlife observation
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 188 – (108.6 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is the Mallard Creek campground. The property is located along the left descending bank of Mallard Creek near the confluence of the Tennessee River. Lawrence CR 400 provides access to the parcel. Once managed by TVA, the parcel is now managed by Drake Enterprises, LLC via a term commercial recreation easement. Amenities include a campground, picnic area, two pavilions, and playground, swimming beach, boat ramp, courtesy pier, bathhouses and dump station.

This parcel has a high probability for the presence of cultural resources. This area has been surveyed for historic properties. Any ground disturbing development must be coordinated with TVA prior to construction. Requests for use of TVA lands and associated water–based structures to support developed recreation purposes would be considered.

Table 4-188. Parcel Information

Location Component	Parcel Specific Information
County, State	Lawrence, Alabama
TVA D-Stage Map Numbers	175
Stream Mile and Bank	<ul style="list-style-type: none"> • Mallard Creek Miles 0.4-1.2L • Tennessee River mile 293.6L

Parcel 189 – (3.1 acres)

Proposed RLMP Allocation: Zone 3, Sensitive Resource Management

This parcel is located along the left descending bank of Mallard Creek near the confluence of the Tennessee River. This property is surrounded by Parcel 189 (Mallard Creek Campground). Access is provided via Lawrence CR 442. A ground penetrating radar survey of the south eastern portion of Parcel 189 revealed unmarked, historic grave shafts. The TVA acquisition map indicates this is an unnamed slave cemetery. Parcel 189a has been removed from the recreation easement and commercial lease that applies to Parcel 189. Current management of the recreation area has agreed to discontinue its use for camping and to assist in preserving this as a significant cultural resource. No earth disturbing activities are allowed. Basic vegetation maintenance such as mowing is appropriate. Requests for private water use facilities would not be considered.

Table 4-189. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	61-NW
TVA D-Stage Map Numbers	175
Stream Mile and Bank	Mallard Creek Mile 0.6L
Land Use/Land Cover	Maintained field
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Maintenance of existing cemetery
Potential Partners	<ul style="list-style-type: none"> • Drake Enterprises, LLC • Private individuals with interest in the cemetery

Parcel 190 – (9.4 acres)*Proposed RLMP Allocation: Zone 2, Project Operations*

This parcel is a safety harbor including the Melton Bluff navigation light located at TRM 287.4L. Safety harbors are available for barges and recreational boats during adverse weather conditions or equipment malfunction. Future development of this tract will be restricted, and requests for private water use facilities would not be considered. There is a moderate probability for the presence of cultural resources.

Table 4–190. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	170
Stream Mile and Bank	TRM 287.4L
Land Use/Land Cover	Deciduous forest and pines
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Survey for historic properties
Potential Partners	None identified

Parcel 191 – (21.2 acres)*Proposed RLMP Allocation: Zone 4, Natural Resource Conservation*

This parcel is located along the left descending bank at TRM 287. The land cover is hardwood forest and rock/cherty bluff. Access, though poor, is from Spring Creek Road, passing the tract a short distance to the south, or by water. No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–191. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	170
Stream Mile and Bank	TRM 287L
Land Use/Land Cover	Hardwood forest with rock bluff
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA’s property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 192 – (56.2 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel includes a safety harbor and a wastewater treatment plant for West Morgan–East Lawrence Water Authority. Safety harbors are available for barges and recreational boats during adverse weather conditions or equipment malfunction. Future development of this tract will be restricted, and requests for private water use facilities would not be considered. There is a high probability for the presence of cultural resources.

Table 4–192. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	170
Stream Mile and Bank	TRM 286 to 286.8L
Land Use/Land Cover	Deciduous forest, roads, wastewater treatment plant
Known Dispersed Recreation Opportunities	bank fishing, hiking, picnicking

Location Component and Public Involvement Opportunities	Parcel Specific Information
Current Agreements/Commitments	Permanent easement to West Morgan–East Lawrence Water Authority for water utilities
Potential Projects	Survey for historic properties
Potential Partners	West Morgan–East Lawrence Water Authority

Parcel 193 – (122.9 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel spans three noncontiguous tracts of land located along the left descending bank of the Tennessee River between TRM 285 and 286. The land cover consists of hardwood forest and rock/cherty bluff. The oak-hickory forest averages approximately 85 years and the bottomland hardwoods average approximately 55 years. Considerable small game hunting and bank fishing occurs on the parcel. The parcel was leased to Lawrence County, Alabama for a county park from November 1955 to October 1974 when the lease was allowed to expire by the county.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4–193. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	60–SW
TVA D–Stage Map Numbers	170
Stream Mile and Bank	TRM 287L
Land Use/Land Cover	Hardwood forest with rock bluff
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	None identified

Parcel 194 – (9.0 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is comprised of multiple disjointed pieces of property located along Spring Creek and Goldfield Branch, tributaries to TRM 283L and 285L, respectively. This parcel is encumbered by a ROW for Lawrence County Road 48. Requests for private water use facilities would not be considered.

Table 4–194. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	54–NE and 61–NW
TVA D–Stage Map Numbers	166 and 171
Stream Mile and Bank	TRM 283L and 285L
Land Use/Land Cover	Road ROWs
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	<ul style="list-style-type: none"> • Permanent easements to Lawrence County, Alabama for a road right-of-way • Permanent easement to the State of Alabama for a road right-of-way
Potential Projects	None identified
Potential Partners	<ul style="list-style-type: none"> • Lawrence County, Alabama • State of Alabama

Parcel 195 – (4.9 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel is located on the left descending bank of Goldfield Branch and access is provided by Spring Creek Road. TVA developed and operates this area for public boat access. Amenities include a boat ramp, fishing pier and parking lot. Undisturbed portions of this parcel have a moderate probability for the presence of cultural resources; however, it has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4–195. Parcel Information

Location Component	Parcel Specific Information
County, State	Lawrence, Alabama
TVA D–Stage Map Numbers	171
Stream Mile and Bank	TRM 285L

Parcel 196 – (0.7 acre)

Proposed RLMP Allocation: Zone 7, Shoreline Access

This parcel is located along the left descending bank of Goldfield Branch between TVA markers 171-85WC and 171-80WC. This parcel lies below the 560-foot msl contour, and the current land use is deciduous forest. Water use facilities have not been constructed along the shoreline, but future requests for private water use facilities would be considered.

Table 4–196. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	61–NW
TVA D–Stage Map Numbers	171
Stream Mile and Bank	Tennessee River mile 285L
Land Use/Land Cover	Deciduous forest
Fronts Former TVA Tract (s)	XWR–509
Structure Profile	Varies
Current Agreements/Commitments	None identified

Parcel 197 – (0 acre)

Proposed RLMP Allocation: Zone 1, Non-TVA Shoreland

This parcel is located at the confluence of Goldfield Branch with the Tennessee River. The TVA property is located below the 556-foot msl contour. At one time, TVA and the adjoining private property owner were in discussions about TVA acquiring the property below the 560-foot msl contour. This additional property would have been used for navigation materials when maintaining signs, lights, buoys, etc. However, the acquisition never occurred, and TVA property remains at the 556-foot msl contour. The shoreline has a high probability for the presence of cultural resources.

Table 4–197. Parcel Information

Location Component	Parcel Specific Information
County, State	Lawrence, Alabama
TVA D–Stage Map Numbers	171
Stream Mile and Bank	TRM 285L

Parcel 198 – (34.7 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is a safety harbor located at TRM 284L. Safety harbors are available for barges and recreational boats during adverse weather conditions or equipment malfunction. There is a moderate probability for the presence of cultural resources. Future development of this tract will be restricted, and requests for private water use facilities would not be considered.

Table 4–198. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	54–NE
TVA D–Stage Map Numbers	165 and 166
Stream Mile and Bank	TRM 284L
Land Use/Land Cover	Deciduous forest

Location Component and Public Involvement Opportunities	Parcel Specific Information
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Survey for historic properties
Potential Partners	None identified

Parcel 199 – (121.2 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel is located along the left descending bank of the Tennessee River at the confluence of Spring Creek. The land cover is mostly mature loblolly pine forest which was planted by the Civilian Conservation Corps in the late 1930s. A bottomland hardwood stand is located on the northeastern side of the parcel, and there is a small agricultural field located near the southern end of the parcel. Numerous listed species have been found in the adjacent reservoir. However, no federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-199. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	54-NE
TVA D-Stage Map Numbers	165 and 166
Stream Mile and Bank	TRM 283.8L
Land Use/Land Cover	Predominately mature loblolly pine forest with mixed hardwoods and one small agricultural field near the southern end of the parcel
Known Dispersed Recreation Opportunities	Bank fishing, primitive camping, and wildlife observation
Current Agreements/Commitments	Term agricultural license to a private individual for perennial hay production

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Conversion of mature pine forest into open pine savannah for improved wildlife habitat • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	Licensee

Parcel 200 – (26.8 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This parcel lies along both banks of Spring Creek with access by Spring Creek Road. Its access and topography make it suitable for a variety of developed recreational facilities and activities. The parcel is currently undeveloped but is informally used by the public for boat launching, shoreline fishing, and other water based recreation activities. Potential future public recreation development could include a boat ramp, shoreline fishing area, and picnic or camping facilities, and developed trail head to support trail access for trails on adjacent parcels. This parcel has a moderate probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-200. Parcel Information

Location Component	Parcel Specific Information
County, State	Lawrence, Alabama
TVA D-Stage Map Numbers	166
Stream Mile and Bank	Spring Creek Mile 0.6B

Parcel 201 – (794.9 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This large parcel encompasses most of the Spring Creek embayment. The land cover is a patchwork of pine and hardwood stands with intervening open pastureland and pockets of shrub

and brush. Some of the loblolly and shortleaf pine plantations date from the CCC period of the late 1930s. The adjacent shallow waters of Spring Creek have large areas of submerged aquatic vegetation during some years. There are large agricultural fields located along the eastern and western shores of Spring Creek.

The shores of Swoope Pond are covered with a mix of pine, young hardwood, agricultural land, and pasture interspersed with pockets of scrub-shrub and forested and emergent wetland. A small impoundment, Cottonwood Pond, is located in the southwestern corner of the parcel. During some years, the shoreline along roughly the northern half of the tract is fronted by aquatic bed wetland, and several low islands lie a short distance offshore.

The diversity of woodland and early successional habitats in this area supports a good small game population, and there are opportunities for further wildlife benefits through cooperative efforts in the management of the agricultural land.

There is considerable informal recreational use of the area, primarily by bank fishermen. There is easy access by road and by water through the use of the adjacent state access ramp. A high amount of small game hunting takes place on the adjoining private property, and all-terrain vehicle abuse has also occurred on this parcel.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a high probability for the presence of cultural resources; however, a comprehensive archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-201. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	54-NE
TVA D-Stage Map Numbers	166, 167, and 258
Stream Mile and Bank	Spring Creek Mile 2.3B
Land Use/Land Cover	Large agricultural fields, mixed hardwood and pine forest, and scrub-shrub and forested wetlands
Known Dispersed Recreation Opportunities	Bank fishing, primitive camping, and wildlife observation
Current Agreements/Commitments	Term agricultural licenses to a private individuals for row crops (corn, soybean, and wheat)

Location Component and Public Involvement Opportunities	Parcel Specific Information
Potential Projects	<ul style="list-style-type: none"> • Increased vegetation management for grasslands and early successional communities for wildlife benefits • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	Licensees

Parcel 202 – (6.2 acres)

Proposed RLMP Allocation: Zone 2, Project Operations

This parcel is located at Spring Creek Mile 4.6B, tributary to Tennessee River mile 283L, and is encumbered by TVA's Wheeler–Guntersville 161–kV and 500– kV TL. There is a moderate probability for the presence of cultural resources. Requests for private water use facilities would not be considered.

Table 4–202. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	54–NE
TVA D–Stage Map Numbers	258
Stream Mile and Bank	TRM 283L
Land Use/Land Cover	Transmission line ROW
Known Dispersed Recreation Opportunities	None identified
Current Agreements/Commitments	None identified
Potential Projects	Survey for historic properties
Potential Partners	None identified

Parcel 203 – (82.8 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel is located along the left descending bank of the Tennessee River at the confluence with Spring Creek. International Paper is the back-lying property owner. The intermittent use of the back-lying property serves as a recreation amenity for employees with a baseball field, tennis courts, campground, picnic area, boat ramp, and courtesy pier. The land cover of the adjoining TVA property is deciduous forest. The parcel has been allocated for industrial use to support future expansion or associated support of International Paper or other industrial needs. There is a moderate potential for the presence of cultural resources, but it has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4-203. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	54-NE
TVA D-Stage Map Numbers	165 and 166
Stream Mile and Bank	TRM 283L
Land Use/Land Cover	Deciduous forest
Current Agreements/Commitments	None identified

Parcel 204 – (396.3 acres)

Proposed RLMP Allocation: Zone 5, Industrial

This parcel is located along the left descending bank of the Tennessee River and stretches between TRM 279 and 282. Historically, this area has seen significant interest in potential industrial development. While approximately 3 river miles of TVA property has been allocated for industrial use, TVA intends to preserve vegetative buffers throughout the parcel to maintain the visual integrity. The size and location of the vegetative buffers will be determined during the site-specific environmental review for each potential industrial development.

In 2006, TVA conducted an intensive study of a large portion of the parcel. Approximately 75 plant species were identified with six of those plant species being classified as invasive. However, no rare plant species were observed during field inspections. During this same timeframe, no protected terrestrial animal species, caves, heron colonies, or other unique terrestrial habitats were found. Two caves exist along the shoreline, one remains inundated with water from the reservoir, and the other is partially exposed during winter when reservoir levels are lowered. Neither cave was found to be suitable habitat for cave obligate animals. An active bald eagle nest occurs approximately one mile from the parcel. Bald eagle surveys would be required during subsequent breeding seasons prior to development on the parcel. No caves used by Indiana bats exist in or near the project area. Forested habitat providing potentially suitable summer habitat for this species exists. Small emergent, scrub-shrub wetlands occur along portions of the shoreline.

Approximately 170 acres were surveyed for archaeological resources, and an architectural survey consisted of a 0.5-mile viewshed surrounding portions of the parcel. The surveys identified 10 archaeological resources and two previously recorded historic/architectural resources, and all findings were considered ineligible for the National Register of Historic Places. The remainder of the parcel would require an archaeological survey prior to any construction or issuance of TVA landrights.

An environmental review tailored to the proposed industrial develop would occur prior to any ground disturbing activities. Requests for use of TVA lands and associated water-based structures to support industrial purposes would be considered.

Table 4-204. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SE and 54-NE
TVA D-Stage Map Numbers	161, 162, and 165
Stream Mile and Bank	TRM 279-282R
Land Use/Land Cover	Deciduous forest and wetlands
Current Agreements/Commitments	None identified

Parcel 205 – (16.1 acres)

Proposed RLMP Allocation: Zone 4, Natural Resource Conservation

This parcel consists of two noncontiguous tracts of land located between Freeman Acres and Wheeler Dam Cabin Sites. The property sits in a small embayment along the left descending bank of the Tennessee River at TRM 278. The adjacent property owners do not own the necessary land rights to construct private water use facilities, mow grass, cut trees, or alter the natural riparian vegetation on this parcel of public land. The parcel has no road access except across private land. Currently, there are some private encroachments located along the eastern shore of the parcel.

The eastern parcel is covered by hardwood timber with a small percentage mix of pine. In some locations few tree saplings remain to replace the older trees as they decline. It is important to the casual lake user that TVA not allow this tract to convey the impression that it is an extension of private backyards, thereby discouraging full realization of public benefit that this public resource otherwise offers.

The western parcel of the tract located adjacent to the Wheeler Dam Subdivision does not have the use pressure that currently occurs on the opposite shoreline. The 6-acre parcel is approximately 350 feet deep and has a shoreline length of approximately 1,500 feet. The subdivision road terminates at the northwestern end of the parcel and could easily provide access to TVA property. The parcel is covered with a dense stand of mixed hardwood and pine timber. The soil is highly erodible but has been stabilized by the existing vegetation. The timber cover also provides excellent habitat for forest-related wildlife.

During the formative years of reservoir development, both parcels were reserved for a navigation safety harbor. However, TVA abandoned this use in the early 1970s because of conflicts with unauthorized private water use facilities. The embayment is still used by recreational boaters seeking shelter from storms or having mechanical difficulty.

No federally or state-listed species or species of special status are known to occur on this parcel. There is a moderate probability for the presence of cultural resources; however, an archaeological survey has not been conducted. There are no existing shoreline alterations, and requests for private water use facilities would not be considered.

Table 4-205. Parcel Information

Location Component and Public Involvement Opportunities	Parcel Specific Information
County, State	Lawrence, Alabama
Topographic Map (Sheet No. and Quadrant)	53-SE
TVA D-Stage Map Numbers	161
Stream Mile and Bank	TRM 278L
Land Use/Land Cover	Mixed hardwood and pine forest with limited unauthorized vegetation management
Known Dispersed Recreation Opportunities	Bank fishing
Current Agreements/Commitments	None identified
Potential Projects	<ul style="list-style-type: none"> • Mitigation of unauthorized vegetation management • Placement of TVA property and public lands signs along the parcel boundary and shoreline • Refresh the existing paint denoting TVA's property boundaries • Systematic survey for historic properties
Potential Partners	Neighboring property owners

Parcel 206 – (4.0 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This retained parcel includes property along the left descending bank of the Tennessee River. This parcel fronts one of the three Joe Wheeler State Park tracts of land transferred by TVA to the State of Alabama under agreement Tract No. XTWR-62. Most of the parcel follows the 560-foot msl contour. However, there is also a small interior tract which was the site of a former water tower that serviced water to the original dam reservation area. The amenities at this portion of the Joe Wheeler State Park include a boat ramp, courtesy dock, cabins, picnic areas, tennis courts, restrooms and bathhouses. There is a low probability for the presence of cultural resources. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-206. Parcel Information

Location Component	Parcel Specific Information
County, State	Lawrence, Alabama
TVA D-Stage Map Numbers	157
Stream Mile and Bank	TRM 275.5-278L

Parcel 207 – (1.8 acres)

Proposed RLMP Allocation: Zone 6, Developed Recreation

This retained parcel includes property along the left descending bank of the Tennessee River and downstream of Wheeler Dam. This parcel fronts one of the three Joe Wheeler State Park tracts of land transferred by TVA to the State of Alabama under agreement Tract No. XTWR-62. The parcel follows the 513-foot msl contour. The amenities at this portion of the Joe Wheeler State Park include a trail system and opportunities for bank fishing. There is a low probability for the presence of cultural resources, but this parcel has not been surveyed for historic properties. Requests for use of TVA lands and associated water-based structures to support developed recreation purposes would be considered.

Table 4-207. Parcel Information

Location Component	Parcel Specific Information
County, State	Lawrence, Alabama
TVA D-Stage Map Numbers	10 and 157
Stream Mile and Bank	TRM 274.1L

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CHAPTER 5. PLANNING TEAM

J. Kenley Austin

Position: Program Manager, Reservoir Land Use and Permitting
Education: B.S., Biology and Geography
Experience: 12 years in Planning and Managing Land; 8 years in Natural Resource Management
Involvement: Planning Team and Deed interpretation

Chellye L. Campbell

Position: Senior Specialist, Land Policy
Education: B.S., Biology
Experience: 14 years in Planning and Managing Land
Involvement: Deed interpretation and Land Policy guidance

Jerry G. Fouse

Position: Recreation Specialist
Education: M.B.A.; B.S., Forestry and Wildlife
Experience: 38 years in Natural Resources – Recreation Planning and Economic Development
Involvement: Planning Team and Recreation Management

Thomas O. Maher

Position: Senior Archaeologist
Education: Ph.D., Anthropology
Experience: 32 years in the field of Archaeology
Involvement: Planning Team and Cultural Resource Management

Leonard L. McCurdy, Jr.

Position: Senior Specialist, Reservoir Land Use and Permitting
Education: B.S., Environmental Studies–Chemistry; J.D., Law
Experience: 25 years in the field of Law including 18 years in TVA real property rights
Involvement: Deed interpretation and Land Policy guidance

Susan D. McDaniel

Position: Process Integration Specialist
Experience: 30 years in Geographic Information Systems and Planning and Managing Land
Involvement: Planning Team and preparation of geographic information system

Heather L. Montgomery

Position: Senior Program Manager, Reservoir Lands Planning
Education: B.S., Environmental Biology
Experience: 13 years in Planning and Managing Land and Environmental Impacts Evaluation
Involvement: Program Manager

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Mark T. Morrissey

Position: Specialist, Geographic Information Systems
Education: B.S., Geography
Experience: 2 years in Planning and Managing Land; 5 years in Industrial Safety and Compliance
Involvement: Planning Team and preparation of geographic information system

Karen E. Rylant

Position: Senior Specialist, Section 26a Policy and Process
Education: Ph.D., Agronomy (Soil Chemistry); M.S., Soil Fertility; B.A., Chemistry, B.A., Geology
Experience: 8 years in Environmental Research; 5 years in Land and Shoreline Management
Involvement: Deed interpretation and Section 26a guidance

Damien J. Simbeck

Position: Watershed Representative
Education: M.S., Zoology; B.S., Professional Biology
Experience: 23 years in aquatic, land, and natural resource management
Involvement: Planning Team and Biological Resource Management

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GLOSSARY

acre	A unit measure of land area equal to 43,560 square feet
agricultural licensing	Some parcels or portions of parcels designated for other purposes or uses may also be suitable for interim agricultural licensing. These parcels have been identified using the criteria contained in TVA's agriculture instruction. Normal tenure for a TVA agricultural license is five years. Land with extreme erosion potential may not be licensed for agricultural use unless erosion and sediment controls, including the use of best management practices, can be successfully implemented. Further investigation and/or mitigation of adverse impacts to natural or cultural resources may be required prior to approval of license agreements.
cultural resources	Archaeological, historic, and architectural resources
dam reservation	Lands generally maintained in a park-like setting by TVA to protect the integrity of the dam structure, hydroelectric facilities, and navigation locks. The reservation also provides for public visitor access to the TVA dam facilities and recreation opportunities, such as public boat access, bank fishing, camping, picnicking, etc. Hunting is not typically allowed on dam reservations.
deciduous	Vegetation that sheds leaves in autumn and produces new leaves in the spring.
dewatering unit	A small impoundment that is operated independently of the larger reservoir. Surface water is pumped from the dewatering unit to the reservoir during the summer months and vice versa during winter months.
dispersed recreation	Recreation of an informal nature such as hunting, hiking, biking, bird watching, photography, primitive camping, bank fishing, and picnicking, and etc. that occur on TVA land. These activities are not associated with developed facilities although some improvements may occur for access, health and safety, or to protect the environment.
embayment	A bay or arm of the reservoir
emergent wetland	Wetlands dominated by erect, rooted herbaceous plants, such as cattails and bulrushes.
endangered species	A species in danger of extinction throughout all or a significant part of its range. Endangered species recognized by the Endangered Species Act or similar state legislation have special legal status for their protection and recovery.
Environmental Policy	A TVA Board-approved policy that communicates guiding principles to lead TVA successfully in the reduction of its environmental impact while continuing to provide reliable and competitively priced power to the Valley
floodplain	Any land area susceptible to inundation by water from any source by a flood of selected frequency. For purposes of the National Flood Insurance Program, the floodplain, as a minimum, is that area subject to one percent or greater chance of flooding (100-year flood) in any given year.
forest	Vegetation having tree crowns overlapping, generally forming 60 to 100 percent cover.
Land Policy	A TVA Board-approved policy that guides retention, disposal, and planning interests in real property
mitigation	An action that either will result in avoidance or an effect or cause the results of an activity to be minor in significance
natural areas	Ecologically significant sites, lands set aside for particular management

	objectives, and lands that contain sensitive biological, cultural or scenic resources. The TVA natural area program includes small wild areas, habitat protection areas, wildlife observation areas, and ecological study areas.
plan tract	A numbered parcel of TVA fee-owned land that has been assigned, through the reservoir land planning process, an allocation to guide future land use decisions.
prime farmland	Generally regarded as the best land for farming, these areas are flat or gently rolling and are usually susceptible to little or no soil erosion. Prime farmland produces the most food, feed, fiber, forage, and oil seed crops with the least amount of fuel, fertilizer, and labor. It combines favorable soil quality, growing season, and moisture supply and, under careful management, can be farmed continuously and at a high level of productivity without degrading either the environment or the resource base. Prime farmland does not include land already in or committed to urban development, roads, or water storage.
riparian scrub-shrub	Related to or located on the banks of a river or stream Woody vegetation less than about 20 feet tall. Species include true shrubs, young trees, and trees or shrubs that are small or stunted because of environmental conditions
shoreland	The surface of land lying between the minimum pool elevation of a TVA reservoir and the maximum shoreline contour or TVA back-lying property (whichever is further)
shoreline	The line where the water of a TVA reservoir meets the shore when the water level is at the normal summer pool elevation.
shoreline access rights	TVA land encumbered with deeded or implied rights held by adjacent property owners. The deeded or implied rights allow individuals to construct water use facilities upon receipt of TVA's written approval of plans.
threatened species	A species threatened with extinction throughout all or a significant portion of its range or territory. Threatened species recognized by the Endangered Species Act or similar state legislation have special legal status for their protection and recovery.
wetlands	As defined in TVA Environmental Review Procedures, "Wetlands are those areas inundated by surface or groundwater with a frequency sufficient to support and under normal circumstances do or would support a prevalence of vegetation or aquatic life that requires saturated or seasonably saturated soil conditions for growth and reproduction. Wetlands generally include swamps, marshes, bogs, and similar areas such as sloughs, potholes, wet meadows, mud flats, and natural ponds.
wildlife management area	Land and/or water areas designated by state wildlife agencies, such as the Alabama Department of Conservation and Natural Resources, for the protection and management of wildlife. These areas typically have specific hunting and trapping regulations as well as rules regarding appropriate uses of these areas by the public.

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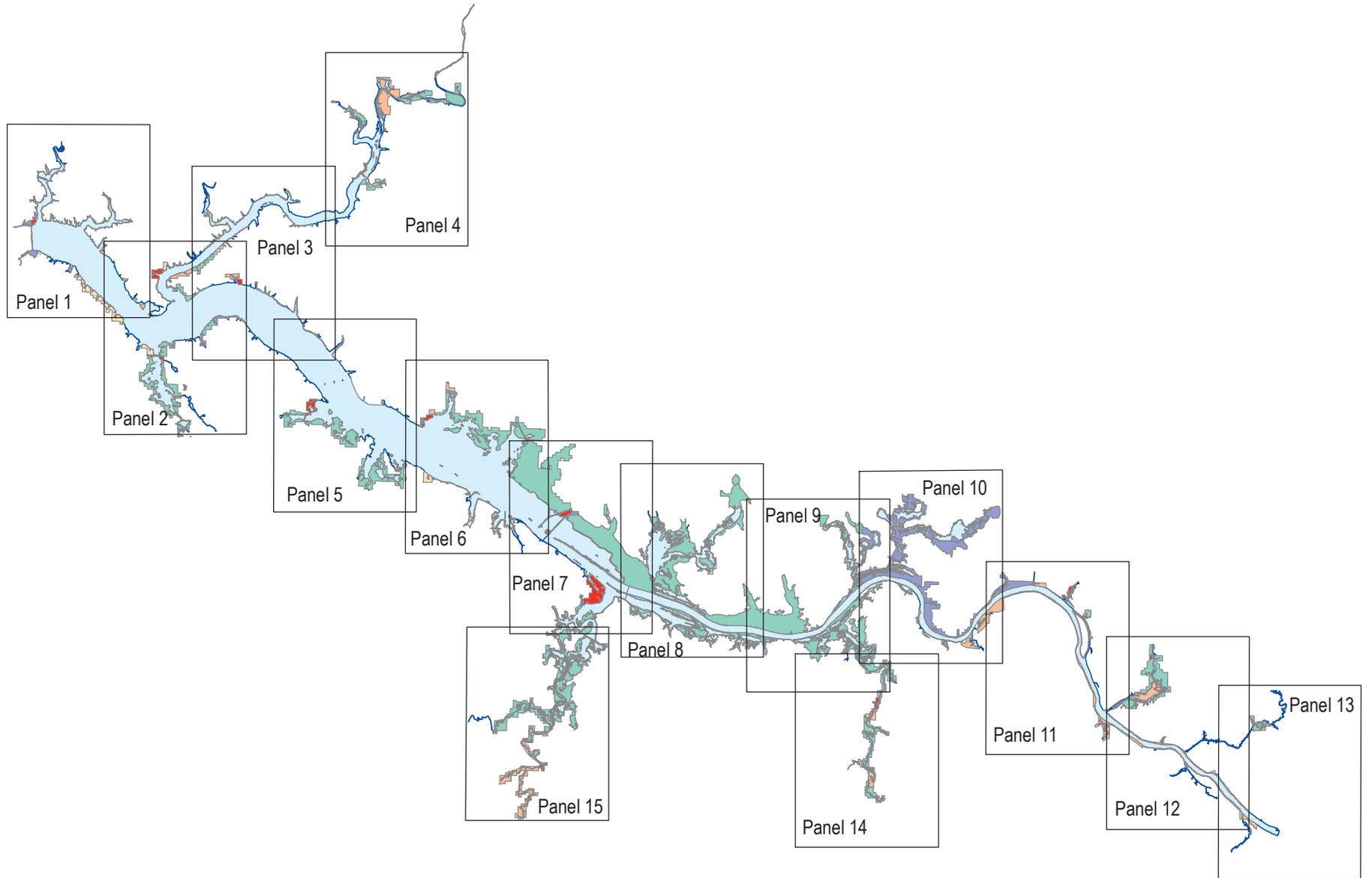
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**Appendix A – Draft Land Management Plan Maps –
Panels 1 through 15**

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Wheeler Reservoir



[Click Panel to View PDF Map](#)

Appendix B – Comparison of Parcel Allocations by Alternative

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APPENDIX B

Comparison of Parcel Allocations by Alternative

WHEELER RESERVOIR

Of the 36,045.2 acres on Wheeler Reservoir, there are no proposed allocation changes to 28,940.0 acres (80.3 percent); all proposed allocation changes involve 7,105.2 acres (19.7 percent). Of the 7,105.2 acres, TVA would allocate 2,009.7 acres (28.3 percent) to reflect existing land use agreements or commitments. The remaining 5,095.5 acres (71.7 percent) involve proposed parcel allocations that are not based on existing land use agreements or commitments.

¹Some parcels are separated into smaller portions to show comprehensive consideration of some parcels. Portions of parcels are in bold text with a footnote.

See Tables below:

Table 1 = No Proposed Allocation Changes;

Table 2 = Changes Based on Existing Agreements or Commitments;

Table 3 = Changes NOT based on Existing Agreements or Commitments

Table 1. No Proposed Allocation Changes			
Number of Parcels Per Zone Allocation			
Zone 2	9	Zone 5	8
Zone 3	29	Zone 6	25
Zone 4	36	Zone 7	12

Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
1	2	2	128.6
3	6	6	174.8
4	2	2	8.9
7	3	3	21.5
8	3	3	4.4
9	6	6	1.2
10	7	7	9.2
12	5	5	38.7
13	7	7	11.1
14	6	6	5.3

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Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
15	7	7	10.5
16	6	6	20.8
19	7	7	1.8
20	4	4	23.1
22	6	6	3.9
23	7	7	29.5
24	3	3	30.5
26	4	4	8.4
29	6	6	26.8
30	3	3	15.1
31	3	3	16.4
32	4	4	42.5
34	4	4	114.0
37	4	4	30.5
40	6	6	6.5
42	4	4	84.0
43	4	4	206.5
44	4	4	70.8
46	4	4	117.2
47	3	3	317.2
49	6	6	3.7
51	7	7	13.3
52	4	4	5.7
53	7	7	7.5
54	4	4	0.8
55	6	6	5.9
59	7	7	18.4
60	4	4	100.8
63	6	6	32.6
64	4	4	2.9
65	7	7	8.7
66	4	4	9.1
68	7	7	14.3
72	4	4	6.3
73	7	7	10.3
74	6	6	60.2
76	3	3	35.3
77	4	4	332.1
81	4	4	4,145.4
82	2	2	0.0

Appendix B – Comparison of Parcel Allocations by Alternative

Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
86	2	2	2.3
87	2	2	81.3
88	4	4	13,313.3
90	4	4	39.3
91	5	5	17.2
92	5	5	17.6
97	2	2	4,066.9
98	3	3	70.3
99	6	6	74.1
101 ¹	6	6	10.9
102	4	4	55.7
104	5	5	0.3
105	4	4	6.9
107	3	3	6.6
108	4	4	3.7
109	4	4	279.3
111	4	4	7.5
112	6	6	14.9
115	4	4	434.0
116	4	4	174.3
117	3	3	20.3
119	3	3	51.7
120	3	3	20.0
121	4	4	148.8
123	3	3	49.9
125	3	3	49.2
126	3	3	62.2
129	3	3	103.1
130	3	3	291.6
131	3	3	59.9
132	3	3	73.3
134	3	3	6.3
135	2	2	1.2
136	3	3	62.7
137	3	3	342.6
138	3	3	122.8
145	6	6	59.9
146	3	3	91.6
148	4	4	425.8
150	6	6	4.5

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Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
151	3	3	165.7
152	4	4	182.2
154 ¹	4	4	0.6
155	4	4	14.9
158	3	3	132.8
159	4	4	39.5
162	6	6	9.4
164	4	4	39.7
165	3	3	27.2
166	4	4	119.4
169	5	5	3.6
170	2	2	2.7
171	6	6	420.7
172	3	3	7.8
173	6	6	10.0
174	3	3	15.5
175	2	2	16.7
176	6	6	3.5
177	5	5	17.0
178	6	6	4.1
181	6	6	5.2
182	5	5	222.5
188	6	6	108.6
193	4	4	122.9
195	6	6	4.9
196	7	7	0.7
200	6	6	26.8
203	5	5	82.8
205	4	4	16.1
169	5	5	3.6
170	2	2	2.7
171	6	6	420.7
172	3	3	7.8
173	6	6	10.0
174	3	3	15.5
175	2	2	16.7
176	6	6	3.5
177	5	5	17.0
178	6	6	4.1
181	6	6	5.2

Appendix B – Comparison of Parcel Allocations by Alternative

Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
182	5	5	222.5
188	6	6	108.6
193	4	4	122.9
195	6	6	4.9
196	7	7	0.7
200	6	6	26.8
203	5	5	82.8
205	4	4	16.1
Total = 119 Parcels or Portions of a Parcel		Total = 28,940.0 Acres	

¹Denotes a portion of the parcel

Table 2. Changes Based on Existing Agreements or Commitments			
	No Action ¹ Parcels	Proposed Allocation Parcels	
Zone 2	4	36	5.5 Percent of Wheeler Lands
Zone 3	10	0	
Zone 4	28	2	
Zone 5	1	3	52 Parcels 2,009.7 Acres
Zone 6	9	8	
Zone 7	0	3	

Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
2	2	6	22.7
6	6	4	8.3
17	6	2	1.1
21	4	2	1.6
25	4	2	3.7
27	4	2	11.7
36	3	2	2.7
39	4	2	4.4
61	4	7	4.8
75	6	2	20.0
78	4	2	35.1
80	4	2	1.2
82	4	2	22.9
83	4	2	19.7
84	2	5	31.7
86	4	2	66.8
87	4	2	0.3
89	4	2	5.2
93	4	2	107.9
94	4	6	6.4
95	4	6	1.7
96	5	2	4.3
101 ¹	4	6	0.8
103 ¹	4	2	1.8
103 ¹	6	2	0.7
113	6	2	2.3
118	3	2	3.6
124	3	2	5.9
128	3	2	1.1
133	3	5	4.0

Appendix B – Comparison of Parcel Allocations by Alternative

Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
140	4	2	3.8
141a	3	7	0.5
147	4	2	4.5
149	4	2	4.5
156 ¹	3	2	7.0
156 ¹	4	2	18.6
157	4	6	4.7
160 ¹	4	2	9.5
160 ¹	6	2	1.4
167	4	6	4.7
179	6	2	7.8
180	4	5	14.0
184	3	4	1,391.8
185	4	2	8.4
186	4	7	3.1
190	3	2	9.4
192	4	2	56.2
194	6	2	9.1
198	6	2	34.7
202	3	2	6.2
206	2	6	4.0
207	2	6	1.8
Total = 52 Parcels or Portions of a Parcel		Total = 2,009.7 Acres	

¹Denotes a portion of the parcel

Table 3. Changes NOT Based on Existing Agreements or Commitments			
	No Action Parcels	Proposed Allocation Parcels	
Zone 2	1	0	<i>14.1 Percent of Wheeler Lands</i>
Zone 3	23	13	
Zone 4	14	23	
Zone 5	1	4	45 Parcels 5,095.5 Acres
Zone 6	6	5	
Zone 7	0	0	

Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
5	4	3	11.2
11	5	6	91.3
18	3	4	0.9
28	4	3	10.0
33	4	3	7.6
35	4	3	195.4
38	3	4	4.5
41	3	4	7.3
45	3	4	52.2
48	4	6	5.3
50	3	4	137.6
56	6	5	44.6
57	6	4	136.2
58	6	3	100.7
62	4	3	68.3
67	4	3	7.6
69	3	4	8.8
70	3	4	8.7
71	3	4	9.0
79	4	3	56.9
85	2	6	58.6
100	6	5	4.2
106	3	4	42.4
110	4	3	275.3
114	3	4	40.7
122	4	3	16.8
127	3	4	3.2
139	3	4	3.3
141	3	4	46.7
142	4	3	15.0

Appendix B – Comparison of Parcel Allocations by Alternative

Parcel	No Action Allocation (Alternative A)	Proposed Allocation (Alternative B)	Acres per Allocation
143	3	5	1.1
144	3	4	724.3
153	3	4	6.3
154¹	3	4	2.2
161	4	3	614.9
162	4	6	3.4
163	4	6	7.9
168	3	4	717.2
183	3	4	2.0
187	3	4	209.2
189	6	3	3.1
191	3	4	21.2
199	6	4	121.2
201	3	4	794.9
204	3	5	396.3
Total – 45 Parcels or Portions of a Parcel		Total = 5,095.5 Acres	

¹Denotes a portion of the parcel