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ENVIRONMENTAL REPORT

RECOGNITION OF DEEDED ACCESS RIGHTS IN THREE TENNESSEE VALLEY AUTHORITY RESERVOIR LAND MANAGEMENT PLANS

**Guntersville Reservoir, Alabama; Norris Reservoir, Tennessee;
and Pickwick Reservoir, Alabama**

PREPARED BY:
TENNESSEE VALLEY AUTHORITY

MARCH 2010

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TENNESSEE VALLEY AUTHORITY

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Issue

The Tennessee Valley Authority (TVA) uses a land planning process to allocate individual parcels on its reservoir lands to one of six land use zones. After approval of a reservoir land management plan (LMP) by the TVA Board of Directors (TVA Board), all future uses of TVA lands on that reservoir must then be consistent with the allocations within that LMP. TVA's Land Policy (TVA 2006) states that TVA may consider changing a land use designation outside of the normal planning process only for the purposes of providing water access for industrial or commercial recreation operations on privately owned back-lying land or to implement TVA's Shoreline Management Policy (SMP). A change in allocation of any parcel is subject to approval by the TVA Board or its designee.

Recent research of deeds shows that on certain TVA reservoir land tracts, the current land management zone allocations, particularly Zone 5 (Industrial) and Zone 6 (Developed Recreation), have the potential to conflict with egress and ingress rights of the adjacent property owners if the current back-lying land use were to change. The resolution of these potential conflicts could result in the TVA Board receiving a large number of requests for minor changes to land allocations in several LMPs.

Background

TVA manages its public 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 Tennessee Valley. TVA completed environmental impact statements (EISs) and LMPs for 40,236 acres of TVA-managed land on Guntersville Reservoir (September 2001) and 19,238 acres on Pickwick Reservoir (August 2002). Similarly, an environmental assessment (EA) and LMP for 27,927 acres on Norris Reservoir were completed in September 2001.

The LMPs are designed to guide land use approvals, the permitting of private water use facilities, and resource management decisions on these reservoirs. In the LMPs, land parcels are allocated into broad categories or "zones", which include Project Operations (Zone 2), Sensitive Resource Management (Zone 3), Natural Resource Conservation (Zone 4), Industrial/Commercial Development (Zone 5), Developed Recreation (Zone 6), and Residential Access (Zone 7). Land along the reservoir that is privately-owned or owned by

a public entity other than TVA is labeled Zone 1 (Non-TVA Shoreland) for better understanding and evaluation of impacts during the planning process.

Marginal strips are the narrow band of TVA land around the rim of the reservoir between the water and the boundary of former TVA land that was sold to a specific contour elevation. For example, TVA sold back-lying property on Wheeler Reservoir to the 560-foot contour, leaving a strip of TVA land between the normal summer pool elevation of 556 feet and the sale contour of 560 feet. Current owners of former TVA land often have rights of ingress and egress across the TVA marginal strip that were granted in their property deeds. Although most back-lying parcels have been developed for residential purposes, many of the sale deeds have very general ingress and egress language that would allow a variety of uses. Consequently, some marginal strip parcels have back-lying commercial recreation or industrial land uses, and owners of these back-lying properties may have land use agreements with or Section 26a agreements issued by TVA.

Under the Land Planning Guidelines, those parcels committed to a particular use are typically allocated to the zone that supports that use. Under this practice, marginal strip parcels are allocated to a zone that reflects the current use of the back-lying former TVA property. If the back-lying use is residential, TVA allocates the marginal strip parcel to Zone 7 (Shoreline Access, formerly Residential Access). If the use of the adjacent former TVA property is commercial recreation, TVA would normally allocate the marginal strip to Zone 6 (Developed Recreation). Similarly, if the adjacent land use is industrial, the parcel would be allocated to Zone 5 (Industrial/Commercial).

However, adjacent land uses can change without any involvement by TVA. This practice could lead to misalignments in situations where the back-lying property owner proposes to use the property for a purpose that is consistent with the owner's deeded rights but inconsistent with TVA's zoning of the marginal strip. For example, a developed recreation area on a privately owned back-lying property could be converted (without TVA approval) to a residential subdivision. The new lot owners are eligible to apply for private water use facilities because of the ingress/egress rights TVA placed in the original sale deeds. However, because the marginal strip parcel was allocated to a different use zone (e.g., Developed Recreation) in a TVA Board-approved LMP, TVA could not permit private water use facilities that would only be appropriate under a residential access zone.

Other Environmental Reviews and Documentation

- *Guntersville Reservoir Final Environmental Impact Statement and Land Management Plan* (TVA 2001a)
- *Norris Reservoir Final Environmental Assessment and Land Management Plan* (TVA 2001b)
- *Pickwick Reservoir Final Environmental Impact Statement and Land Management Plan* (TVA 2002)
- *Shoreline Management Initiative: An Assessment of Residential Shoreline Development Impacts in the Tennessee Valley, Final Environmental Impact Statement* (TVA 1999)

Proposal

To recognize the existing deeded landrights of adjoining landowners with respect to access to TVA reservoirs, TVA proposes to modify the existing Guntersville, Norris, and Pickwick reservoirs LMPs by allowing allocation changes under certain circumstances. Specifically, TVA proposes to change the allocation of all or parts of 52 marginal strip parcels on TVA-managed public land from Zones 5 (Industrial/Commercial) or Zone 6 (Developed Recreation) to Zone 7 (Residential Access) on request from adjoining landowners having the necessary deeded access rights. TVA must determine whether the potential environmental impacts of these potential future changes to the land use allocation fall within the scope of the existing environmental reviews.

Scope of Evaluation

In total, TVA identified 52 marginal strip parcels on Guntersville, Norris, and Pickwick reservoirs, all or a portion of which meet the criteria described above. These parcels have adjoining landowners with ingress and egress rights. Some parcels have multiple adjoining landowners where some of the adjoining landowners have deeded access rights and some may not. The parcels that meet the deeded rights criteria occupy about 522 acres and 33.5 miles of shoreline. See attached maps of parcels.

Norris Reservoir (see attached Table 1) has 16 planned marginal strip parcels that front 25 back-lying sales tracts. These 16 parcels with deeded access rights across all or part of them comprise are composed of approximately 326 acres of Zone 6 (Developed Recreation) land and have a total shoreline length of 114,650 feet (21.7 miles). Because some of the back-lying property owners have necessary deeded landrights, the allocation of the relevant portions of these 16 marginal strip parcels could be changed to Zone 7 (Residential Access).

A total of 26 planned marginal strip parcels on Guntersville Reservoir (see attached Table 2) with deeded rights across all or part of them have a cumulative shoreline footage of 55,602 linear feet (10.5 miles). These parcels adjoin 36 back-lying sales tracts. Approximately 122.3 acres of Zone 6 land and 14.4 acres of Zone 5 (Industrial/Commercial) land comprise the portions of these 26 parcels with deeded access rights. Because some of the back-lying property owners have necessary deeded landrights, the allocation of the relevant portions of these 26 marginal parcels could be changed to Zone 7.

On Pickwick Reservoir, there are 10 planned marginal strip parcels fronting 10 back-lying sales tracts (see attached Table 3). These 10 parcels with deeded access rights across all or part of them comprise approximately 26.9 acres of Zone 6 land and 32.4 acres of Zone 5 land and have a total shoreline footage of 26,982 linear feet (5.1 miles). Because some of the back-lying property owners have necessary deeded landrights, the allocation of the relevant portion of these 10 marginal parcels could be changed to Zone 7.

All of the three environmental reviews for the three LPMs state that additional environmental reviews would occur on a case-by-case basis when future changes to zone allocations are proposed.

Discussion of Impacts

Although the relevant portions of all of the 52 parcels (see attached Table 4) could be subject to an allocation change to Zone 7 (Residential Access), the need to change the

allocation for all of them over the life of the LMPs is unlikely. There may be requests for an allocation change for some parcels to Zone 7 in the near term. However, changing the allocation of other parcels in the foreseeable future is unlikely, as many of the back-lying owners have long-term commitments and investments based on the current allocations or they may be unwilling to invest in the cost and time needed on some parcels to resolve potential sensitive resource issues.

The back-lying private property landowners that have deeded rights on the relevant portions of these 52 parcels may request permits for water use facilities and implementation of vegetation management plans on TVA public land. Any permit request would be reviewed to assess potential impacts to protected terrestrial wildlife and plant species. All requests must follow TVA's SMP standards. SMP standards were developed to minimize impacts to terrestrial ecology on residential access land. These standards were evaluated in *TVA's Shoreline Management Initiative (SMI) Final EIS* (TVA 1999).

The above potential allocation changes to Zone 7 would impact parcels totaling about 522 acres of TVA-managed public land on Guntersville, Norris, and Pickwick reservoirs, which is about 0.6 percent out of a total of the combined 87,401 acres of TVA land on these three reservoirs. However, because portions of some parcels would not be involved, the actual area potentially impacted would be less.

Any action as a consequence of an allocation change would have potential environmental impacts. Parcels allocated to Zones 5, 6, or 7 are subject to potential adverse effects because portions of the land in these zones could be devoted to land-disturbing activity uses such as industrial development, developed recreation, or residential access.

The greatest potential adverse impacts to land resources would occur on those parcels allocated to Zone 5 (Industrial/Commercial), where major soil disturbances would be likely when industrial facilities are constructed. Once these facilities are established, they often remain intact for long periods, and large tracts of land may remain impacted.

Major soil disturbances could also occur in specific locations on those parcels allocated to Zone 6 (Developed Recreation) in specific locations if recreation facilities are constructed. Conversely, large areas could be left unaffected for more dispersed recreation management.

In most situations, allocation of parcels to Zone 7 (Residential Access) would result in minor soil disturbances to narrow corridors providing access to private water use facilities. Additionally, construction of shoreline erosion-control structures could cause some soil disturbance.

Aquatic Resources

The parcels currently allocated to Zones 5 or 6 (industrial or recreation) would be the likely areas of future impacts, depending on changes to current practices at the sites. Changing the allocation to Zone 7 would likely have fewer future impacts to aquatic resources as compared to Zone 5 where the site disturbance is greatest and remain about the same if changed to Zone 6 where many similar activities could occur. Changing these parcels to Zone 7 would likewise have the same or lesser potential to affect aquatic listed species.

The potential environmental impacts of future changes from a Zone 5 (Industrial/Commercial) or Zone 6 (Developed Recreation) allocation to a Zone 7 (Residential Access) allocation have been evaluated within the scope of the existing

environmental documents. Appropriate environmental reviews would occur when future changes to zone allocations are proposed.

Wetlands

Many of the parcels under consideration for future allocation changes to Zone 7 contain small areas of scattered wetlands. However, none of these parcels contain significant wetlands as described in the environmental reviews. Any future request for an allocation change for a parcel associated with a water access project (e.g., docks, ground disturbance, etc.) would be subject to a separate project review as described in the environmental reviews for the LMPs. Consequently, potential effects to wetlands would be evaluated under such reviews, and any impacts could be avoided or mitigated. As a result, the potential environmental impacts to wetlands by future modification of the existing LMPs to change allocations from Zones 5 (Industrial/Commercial) or Zone 6 (Developed Recreation) to Zone 7 (Residential Access) on request from adjoining landowners with deeded access rights have been evaluated within the scope of the existing LMPs and their environmental reviews.

Terrestrial Plants

To verify the original data of the environmental reviews, a TVA Natural Heritage database review was conducted for records of state- and federally listed plant species reported from within 5 miles of the 52 parcels. The resultant information is provided as Table 5 for those parcels on Guntersville Reservoir, Table 6 for Norris Reservoir, and Table 7 for Pickwick Reservoir.

The federal candidate species, Georgia rockcress, is reported from within 5 miles of Pickwick Parcel 59. Records show that the population has been possibly extirpated from the state. Historic records of monkey-face orchid, a federal candidate species, indicate this plant species has been reported from within 5 miles of Pickwick Parcels 140, 141, and 150 in the Yellow Creek area. This population is also thought to have been extirpated from this area of Mississippi. In addition, a historic record of the monkey-face orchid was known to occur within 5 miles of Guntersville Parcel 158. No other federally listed plant species was reported from within 5 miles of the Pickwick or Norris reservoir parcels under consideration.

One federally listed as threatened species, Price's potato bean, was reported to occur within 5 miles of Guntersville Parcels 20a, 65, 102, 108, 109, and 110. Habitat to support this federally listed species is not present within or in the immediate vicinity of these parcels.

Alabama state-listed species are known to occur within one mile of Guntersville Parcels 29, 43, 49, 61, 186, 216, 218, and 229. Norris Parcels 66 and 77 have Tennessee state-listed species occurring within 1 mile of the area. The Alabama state champion tree, Deodara cedar, is found near Guntersville Parcel 249. Allocation changes to these parcels would not affect the viability of this special tree.

The effects on the federally and state-listed plants near the parcels proposed for allocation changes would not differ from the effects identified in the existing LMPs and environmental reviews, and no adverse impacts are expected.

Terrestrial Animals

To verify the original data of the environmental reviews for the LMPs, a TVA Natural Heritage database review was conducted for state- and federally listed animal species

within 3 miles of the 52 parcels. This information is provided in Table 8 for those parcels on Guntersville Reservoir, Table 9 for Norris Reservoir, and Table 10 for Pickwick Reservoir.

No federally listed terrestrial animal species occur on any of the subject TVA parcels; however, there are records of occurrence for federally listed gray bats (*Myotis grisescens*) near nine parcels, and for Indiana bats (*Myotis sodalis*) near six parcels. There are records of a bald eagle (*Haliaeetus leucocephalus*), a federally protected species, nest near at least 17 of the parcels. Caves potentially with unique habitats occur near seven parcels. In addition, there are several state-listed animal species near parcels on all three reservoirs. However, potential impacts of future land use allocation changes to listed terrestrial animals and their associated habitats have been evaluated within the scope of the existing environmental documents and LMPs. Generally, impacts under a current Zone 5 allocation may be more detrimental than those attributed to Zone 7 and about the same as under Zone 6, depending on construction plans.

Based on a review of these parcels and the current environmental reviews for the three environmental reviews and LMPs, the proposed Zone 7 allocation changes would be covered by the scope of the environmental reviews. The environmental reviews indicate that any proposed shoreline construction on these parcels would be evaluated in an appropriate project-specific environmental review. This review would take into account changes over time to the terrestrial habitat on these parcels and would evaluate any potential impacts to listed terrestrial species or their habitats at the time of the proposed project. Consequently the evaluations in the previous environmental reviews remain valid.

Cultural Resources

As described in the environmental reviews for the LMPs and since the reviews occurred, the shoreline has been surveyed for cultural resources on a portion of the 52 parcels (see Tables 8, 9, and 10). Four archaeological sites have been previously identified on the Guntersville Reservoir parcels; 30 sites have been located on the Norris Reservoir parcels; and six sites on the Pickwick Reservoir parcels. There may be potential historical structures on or near some of the parcels. Neither the remainder of the TVA parcels nor the back-lying property has not been surveyed for cultural resources. Therefore, there is a potential for more archaeological resources to be identified on the unsurveyed shoreline and back-lying property. Generally, potential impacts to cultural resources from activities anticipated under Zone 7 would be less than those expected under a Zone 5 or Zone 6 allocation because of the reduced potential for ground disturbance.

Programmatic Agreements (PAs) have been executed between TVA, the Advisory Council on Historic Preservation, and the respective Alabama and Tennessee State Historic Preservation Officers (SHPOs) regarding the implementation of TVA reservoir LMPs for identification, evaluation, and treatment of historic properties that are eligible for inclusion on the National Register of Historic Places (NRHP). A commitment in the EIS for the Pickwick Reservoir LMP for TVA land in Mississippi would incorporate a phased identification and evaluation procedure to take into consideration the effects on historic properties. NRHP eligibility will be evaluated in consultation with the Alabama and Tennessee SHPOs according to stipulations of the PAs and the requirements of Section 106 of the *National Historic Preservation Act*. Necessary mitigation of adverse effects to any historic property by future modification of the existing LMPs to change the specified parcels or portions of parcels from Zones 5 and 6 to Zone 7 would be conducted according to the stipulations in the PAs and other requirements within the existing LMPs and their

respective environmental reviews. Consequently the evaluations in the previous environmental reviews remain valid.

Visual and Historical

Parcels that are currently allocated for Zone 5 (Industrial/Commercial Development) and Zone 6 (Developed Recreation) are assumed to have a scenic value class and visual absorption capacity suitable for a change in allocation to Zone 7 (Residential Access). Generally, potential impacts to visual or historic resources from activities anticipated under Zone 7 would be less than those expected under a Zone 5 or Zone 6 allocation because of the reduced potential for disturbances to the natural environment.

A cursory review of buildings and structures that may be reviewed for eligibility for listing in the NRHP appears in Tables 8, 9, and 10. However, Norris Parcel 310 is noted in the Norris Reservoir LMP as having historic house(s) near it. Similarly, Norris Parcel 310 also is located at or near Mt. Pleasant United Methodist Church and Cemetery, as well as (potentially) an access road to a white frame 1888 church building. No direct impacts to potentially eligible buildings or structures were identified in the Guntersville Reservoir LMP or the Pickwick Reservoir LMP. Consequently the evaluations by the previous environmental reviews remain valid.

Socioeconomics

On Guntersville and Pickwick reservoirs, there are 10 parcels of land allocated as Zone 5 (Industrial/Commercial) with deeded access rights over a portion of them. The relevant portions of these 10 parcels occupy about 46.8 acres and have about 5.6 miles of shoreline. Most of these parcels have industrial or commercial developments in place except for Guntersville Parcel 20a and Pickwick Parcel 140.

The allocation of parcels with existing facilities is not likely to change because of the reluctance to abandon the large commitments and investments in industrial and commercial developments. Changing the allocation to Zone 7 from Zone 5 would undoubtedly lead to lesser environmental impacts because of the lesser degree of ground disturbance and other direct effects to the surrounding environment. Some of the socioeconomic value lost by changing an allocation to Zone 7, such as jobs, income, and economic activity, would be part of new residential developments. The future reviews required by the LMPs and their respective environmental reviews would take into account changes to socioeconomic conditions resulting from the reallocation of these parcels and would evaluate any potential impacts at the time of the proposed project. Consequently, the evaluations by the previous environmental reviews are not changed and remain valid.

Recreation

All or portions of 42 parcels of land allocated as Zone 6 (Developed Recreation) on Norris, Guntersville, and Pickwick reservoirs have deeded access rights across them. These parcels comprise 475.3 acres and provide about 31.7 miles of shoreline. Changing the land use allocation from recreation (Zone 6) to shoreline access (Zone 7) likely continues to result in some type of water based recreation. For example, if the back-lying private property were subdivided into lots or multi-dwelling facilities were constructed, there could be multiple private or community docks instead of a commercial marina or other facility.

On Norris Reservoir, all or portions of 16 planned parcels could be subject to reallocation to Zone 7 due to appropriate deeded rights held by back-lying landowners. There are 25 back-lying sales tracts adjacent to these parcels. The 16 parcels occupy approximately

326 acres of Zone 6 land and have a total shoreline footage of 114,650 linear feet (21.7 miles). Examination and review of these parcels revealed that should reallocation occur, recreation resources would still be provided in this area of the reservoir.

Portions of 19 planned parcels allocated as Zone 6 on Gunterville Reservoir could be subject to reallocation to Zone 7. The relevant portions of these parcels total approximately 122.3 acres and have a total shoreline footage of 44,281 linear feet (8.4 miles). Examination and review of these parcels revealed that should reallocation occur, recreation resources would still be provided in this area of the reservoir.

Portions of 7 planned parcels on Pickwick Reservoir front seven back-lying sales tracts with appropriate deeded access rights to request a change to a Zone 7 allocation. The TVA parcels occupy approximately 27 acres of Zone 6 land with a total shoreline footage of 8,683 linear feet (1.6 miles). Examination and review of these parcels revealed that should changes in allocation occur, recreation resources would still be provided in this area of the reservoir.

Summary

Potential environmental effects from any shoreline access by back-lying landowners would be considered in future environmental reviews. These reviews would be initiated when TVA considers requests for Section 26a approvals or land use actions. Furthermore, mitigation, such as the use of best management practices (BMPs) and the imposition of TVA's General and Standard Conditions, as stipulated in the environmental reviews, would tend to decrease environmental impacts.

According to the original environmental reviews (TVA 2001a, 2001b, 2002) for the LMPs, TVA would manage the residential shoreline in accordance with the requirements of the SMI (TVA 1999). The SMP protection requirements which implement SMI would require an individual vegetation management plan for all new shoreline development included as Zone 7 (Shoreline Access). In addition, TVA's Section 26a regulations and SMP specify access corridors, dock size, and buffers, and these requirements would further reduce potential environmental impacts. These measures would reduce water quality/aquatic ecological impacts, as well as impacts to wildlife and visual resources. TVA would require construction-related BMPs to further reduce potential water quality and aquatic biota impacts to insignificant levels.

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Attachments

Reservoir Property Parcels

- Table 1. Norris Reservoir Parcels
Table 2. Guntersville Reservoir Parcels
Table 3. Pickwick Reservoir Parcels
Table 4. Potential Changes to Zone 7 (Residential Access)

Sensitive Plant Species

Table 5. Pickwick Reservoir Plants of Conservation Concern Found Within 5 Miles of the Designated Parcels

Table 6. Norris Reservoir Plants of Conservation Concern Found Within 5 Miles of the Designated Parcels

Table 7. Guntersville Reservoir Plants of Conservation Concern Found Within 5 Miles of the Designated Parcels

Resource Comments

Table 8. Guntersville Reservoir Resource Comments

Table 9. Norris Reservoir Resource Comments

Table 10. Pickwick Reservoir Resource Comments

Maps of Parcels

Figure No. Norris Reservoir

1. Norris Reservoir Parcel 21
2. Norris Reservoir Parcel 66
3. Norris Reservoir Parcel 77
4. Norris Reservoir Parcel 80
5. Norris Reservoir Parcel 84
6. Norris Reservoir Parcel 87
7. Norris Reservoir Parcel 109
8. Norris Reservoir Parcel 118
9. Norris Reservoir Parcel 124
10. Norris Reservoir Parcel 140
11. Norris Reservoir Parcel 209
12. Norris Reservoir Parcel 293
13. Norris Reservoir Parcel 297
14. Norris Reservoir Parcel 301
15. Norris Reservoir Parcel 310
16. Norris Reservoir Parcel 315

Figure No. Guntersville Reservoir

17. Guntersville Reservoir Parcel 20a
18. Guntersville Reservoir Parcel 21
19. Guntersville Reservoir Parcel 29
20. Guntersville Reservoir Parcel 32
21. Guntersville Reservoir Parcels 43 and 49
22. Guntersville Reservoir Parcel 61
23. Guntersville Reservoir Parcel 65
24. Guntersville Reservoir Parcel 102
25. Guntersville Reservoir Parcel 114
26. Guntersville Reservoir Parcel 139
27. Guntersville Reservoir Parcel 158
28. Guntersville Reservoir Parcel 186
29. Guntersville Reservoir Parcel 204
30. Guntersville Reservoir Parcel 207

- 31. Guntersville Reservoir Parcel 214
- 32. Guntersville Reservoir Parcels 216 and 218
- 33. Guntersville Reservoir Parcels 227 and 249
- 34. Guntersville Reservoir Parcels 228 and 229
- 35. Guntersville Reservoir Parcel 231
- 36. Guntersville Reservoir Parcel 236
- 37. Guntersville Reservoir Parcel 248
- 38. Guntersville Reservoir Parcel 276

Figure No. Pickwick Reservoir

- 39. Pickwick Reservoir Parcel 12
- 40. Pickwick Reservoir Parcel 19
- 41. Pickwick Reservoir Parcel 59
- 42. Pickwick Reservoir Parcel 89
- 43. Pickwick Reservoir Parcel 91
- 44. Pickwick Reservoir Parcel 103
- 45. Pickwick Reservoir Parcel 112
- 46. Pickwick Reservoir Parcels 140 and 141
- 47. Pickwick Reservoir Parcel 150

Attachments

Table 1. Norris Reservoir Parcels

Parcel Number	Current Zone	Acres	Feet of Shoreline	Current Use
21	6	3.1	1,551	This parcel is licensed to Twin Cove for commercial recreation.
66	6	7.0	4,752	This parcel has three sections: (1) shoreline fronting XNR-655, Whitman Hollow Dock has a license for commercial recreation; (2) portion transferred to the Tennessee Wildlife Resources Agency, and has a concrete launching ramp and gravel parking lot; and (3) portion fronting TVA retained fee land (NR-721). Section 2 and 3 do not have private access rights.
77	6	14.7	3,613	This parcel fronts a Blue Ridge Council of the Boy Scouts of America camp.
80	6	8.2	3,309	Rainbow Marina and Resort is located on this parcel.
84	6	5.8	2,301	This parcel fronts the Ministers and Orphanage Camp.
87	6	6.9	5,075	Shanghai Resort is located on this parcel.
109	6	19.2	4,493	This parcel is licensed to the Powell Valley Resort.
118	6	6.6	4,632	Flat Hollow Marina is located on this parcel.
124	6	7.4	6,814	Blue Springs Boat Dock is located on the right bank of this parcel.
140	6	0.5	764	This parcel fronts Greasy Hollow Boat Dock.
209	6	65.4	9,529	This parcel has three sections: (1) 30-year recreation easement was conveyed to Claiborne County (now expired); (2) a small tract transferred to the Tennessee Wildlife Resources Agency; and (3) portion licensed for mooring rights for Lone Mountain Dock. Sections 1 and 2 have no private access rights.
293	6	10.5	7,523	This parcel has a license agreement for mooring rights for Hickory Star Boat Dock, portion of parcel fronting Big Ridge State Park does not have private access rights.
297	6	132.6	39,551	This parcel fronts the Tanasi Girl Scout Camp, which has a license agreement to provide security and protection camp.
301	6	8.7	2,540	This parcel is licensed to Andersonville Boat Dock for mooring rights and harbor limits.
310	6	24.2	16,030	This parcel has a license agreement to Stardust Resort and Marina providing mooring rights and harbor limits.
315	6	5.3	2,173	Sequoyah Lodge and Marina Inc., has a license agreement providing mooring rights and harbor limits.
	Totals	326.1	114,650	

Table 2. Guntersville Reservoir Parcels

Parcel Number	Current Zone	Acres	Feet of Shoreline	Current Use
20a	5	1.6	677	Parcel would accommodate anticipated commercial development.
21	6	4.6	2,502	This parcel is used for recreation because it fronts the old Snug Harbor Marina site and because of deeded access rights due to transfer of land (XTGR-5) to the State of Alabama for public recreation purposes.
29	6	5.2	1,564	This parcel is used by Alred Marina for commercial recreation.
32	6	3.9	2,074	Marshall County has deeded access rights across this parcel for public recreational use due to transfer of back-lying land (XTGR-75). Additionally there is a sales tract within the parcel that is currently used by the Lake Guntersville Yacht Club.
43	6	1.9	839	Parcel 43 is used for commercial recreation because it fronts Lakeside Sailing Center.
49	6	4.5	1,583	This parcel is used by Marshall Baptist Camp for developed recreation.
61	6	3.4	1,660	Parcel 61 fronts Ney-A-Ti Church Camp and is currently used for developed recreation.
65	6	1.0	510	Parcel 65 fronts Clay's Marina and is currently used for commercial recreation.
102	6	7.9	3,990	This parcel is used by Camp Maranatha for developed recreation.
114	6	17.3	6,543	Parcel 114 is licensed to the City of Scottsboro for Scottsboro Municipal Park.
139	6	0.4	391	This parcel is used for recreation; a public boat ramp, dock, and parking lot maintained by Alabama Department of Conservation and Natural Resources are present.
158	5	0.2	704	This parcel is used by the Alabama State Docks for industrial access.
186	6	2.7	2,811	Parcel 186 is used for recreation; a public boat ramp, dock, and parking lot maintained by Alabama Department of Conservation and Natural Resources are present.
204	6	8.9	2,358	This parcel is used by South Sauty Resort Inc. for commercial recreation.
207	6	23.4	6,028	Parcel 207 is used by Little Mountain Marina and Mountain Lakes Resorts for commercial recreation purposes.
214	6	2.5	1,391	This parcel is used by Signal Point Marina for commercial recreation.
216	5	4.1	3,264	Parcel fronts multiple industrial sites.
218	5	2.1	847	Parcel 218 is used by Continental Tire and Rubber Company Inc. for industrial purposes.
227	5	4.7	4,296	This parcel is used by back-lying landowners (Goldkrist, Inc., Cargill, Inc., and Continental Grain Co.)for industrial purposes.
228	5	0.9	818	Parcel 228 is licensed to the back-lying land owner (Powel Harbor) for commercial recreation purposes.
229	6	5.2	2,257	This parcel is used by the City of Guntersville as a city

Parcel Number	Current Zone	Acres	Feet of Shoreline	Current Use
				park.
231	6	2.7	1,702	This parcel is used by Covenant Cove Marina for commercial recreation.
236	6	5.0	2,402	Parcel 236 is licensed to Vaughn's Recreation Marina.
248	6	1.3	532	This parcel is proposed for use as a commercial marina by Cisco Steel, which would convert its existing industrial operation.
249	5	0.8	715	This parcel is used by several commercial/industrial companies (Amoco, Port of Guntersville Terminal, Cargill, Nashville, and Chattanooga and St. Louis Railroad) for water access.
276	6	20.5	3,144	A portion of this parcel is licensed for Riverview Campground, and the remainder is under easement to Marshall County as a Marshall County Park #2.
	Total	136.7	55,602	

Table 3. Pickwick Reservoir Parcels

Parcel Number	Current Zone	Acres	Feet of Shoreline	Current Use
12	6	13.0	3,740	This parcel fronts Waterloo City Park.
49	5	13.5	8,407	This parcel fronts Black Eagle Minerals and is used for a barge terminal.
59	5	14.0	9,199	This parcel fronts Cherokee Nitrogen and is used for a barge terminal.
89	6	0.8	479	This parcel fronts Johnson's Fish Camp.
91	6	1.5	996	This parcel fronts the Buzzard Roost Recreation area.
103	6	1.0	15	This portion of this parcel is a sale tract that mostly fronts land transferred to the State of Alabama for Public Recreation.
112	6	6.6	1,662	This parcel fronts Mill Creek
140	5	4.9	693	This parcel was previously planned/allocated as an Industrial site for Yellow Creek Port.
141	6	0.8	0	This parcel fronts the former TCDF recreation development.
150	6	3.2	1,791	This parcel fronts Grand Harbor Marina
	Total	59.3	26,982	

Table 4. Parcels with Potential Changes to Zone 7 (Residential Access)

Reservoir	Total Parcel Acres by Zone		
	Zone 5 Industrial/Commercial	Zone 6 Developed Recreation	Total
Guntersville	14.4	122.3	136.7
Pickwick	32.4	26.9	59.3
Norris	0.0	326.1	326.1

Total	46.8	475.3	522.1
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Table 5. Pickwick Reservoir Plants of Conservation Concern Found Within 5 Miles of the Designated Parcels

Common Name	Scientific Name	Federal Status	State Rank	State Status	Parcels
Alabama snow-wreath	<i>Neviusia alabamensis</i>	--	S1	SLNS	140/141, 150
Allegheny-spurge	<i>Pachysandra procumbens</i>	--	S3	SLNS	12, 112, 140/141, 150*
American columbo	<i>Frasera caroliniensis</i>	--	S2	SLNS	103
American bladdernut	<i>Staphylea trifolia</i>	--	S3	SLNS	12, 112, 140/141, 150
American ginseng	<i>Panax quinquefolius</i>	--	S3	SLNS	140/141, 150
Appalachian golden-rod	<i>Solidago flaccidifolia</i>	--	S1S2	SLNS	12, 112
Autumn goldenrod	<i>Solidago sphacelata</i>	--	S1S2	SLNS	140/141, 150
Big shellbark hickory	<i>Carya laciniosa</i>	--	S2S3	SLNS	140/141, 150
Black bugbane	<i>Cimicifuga racemosa</i>	--	S1S2	SLNS	12, 112, 140/141, 150
Black-stem spleenwort	<i>Asplenium resiliens</i>	--	S1	SLNS	12, 112, 140/141, 150
Blue ash	<i>Fraxinus quadrangulata</i>	--	S2	SLNS	140/141, 150*
Canada moonseed	<i>Menispermum canadense</i>	--	S3	SLNS	12, 112
Canada wild-ginger	<i>Asarum canadense</i>	--	S2S3	SLNS	140/141, 150
Canadian milkvetch	<i>Astragalus canadensis</i>	--	S2	SLNS	150
Carolina tassel-rue	<i>Trautvetteria caroliniensis</i>	--	S1	SLNS	150
Crested fringed orchid	<i>Platanthera cristata</i>	--	S3	SLNS	140/141, 150
Downy yellow violet	<i>Viola pubescens</i> var. <i>eriocarpa</i>	--	S1S2	SLNS	140/141, 150
Dutchman's breeches	<i>Dicentra cucullaria</i>	--	S2	SLNS	59, 112, 140/141, 150
Dwarf larkspur	<i>Delphinium tricorne</i>	--	S2	SLNS	140/141, 150
Eastern cottonwood	<i>Populus deltoides</i>	--	Alabama Champion Tree		49
Eastern leatherwood	<i>Dirca palustris</i>	--	S2	SLNS	140/141, 150
Ernest's spider-wort	<i>Tradescantia ernestiana</i>	--	S1	SLNS	140/141, 150
False rue-anemone	<i>Enemion biternatum</i>	--	S2	SLNS	59
Giant alumroot	<i>Heuchera villosa</i> var. <i>macrorhiza</i>	--	S1	SLNS	140/141, 150*
Giant chickweed	<i>Stellaria pubera</i>	--	S2S3	SLNS	140/141, 150*
Greek valerian	<i>Polemonium reptans</i>	--	S2S3	SLNS	140/141, 150
Green violet	<i>Hybanthus concolor</i>	--	S2	SLNS	12, 112, 140/141, 150
Hairy lipfern	<i>Cheilanthes lanosa</i>	--	S2	SLNS	12, 112, 140/141, 150*
Harper's umbrella-plant	<i>Eriogonum longifolium</i> var. <i>harperi</i>	--	S1	SLNS	49
Heart-leaved foam-flower	<i>Tiarella cordifolia</i>	--	S2	SLNS	140/141, 150

Common Name	Scientific Name	Federal Status	State Rank	State Status	Parcels
Kentucky coffee-tree	<i>Gymnocladus dioicus</i>	--	S2	SLNS	140/141, 150
Lovage	<i>Ligusticum canadense</i>	--	S1S2	SLNS	12, 112, 140/141, 150*
Mock-orange	<i>Philadelphus hirsutus</i>	--	S1	SLNS	140/141, 150*
Mountain holly	<i>Ilex Montana</i>	--	S3?	SLNS	89, 91, 103, 112, 150
Muhly	<i>Muhlenbergia tenuiflora</i>	--	S1S2	SLNS	140/141, 150
Nodding trillium	<i>Trillium flexipes</i>	--	S1	SLNS	140/141, 150
Phacelia	<i>Phacelia bipinnatifida</i>	--	S1	SLNS	140/141, 150
Pink turtlehead	<i>Chelone lyonii</i>	--	S1	SLNS	12, 112
Purple cliff-brake	<i>Pellaea atropurpurea</i>	--	S1S2	SLNS	140/141, 150*
Puttyroot	<i>Aplectrum hyemale</i>	--	S1	SLNS	140/141, 150
Sedge	<i>Carex jamesii</i>	--	S1S2	SLNS	140/141, 150
Sedge	<i>Carex prasina</i>	--	S1	SLNS	89, 91, 103, 112, 140/141, 150
Sedge	<i>Carex stricta</i>	--	S2	SLNS	89, 91, 103, 112, 140/141, 150*
Sedge	<i>Carex picta</i>	--	S2S3	SLNS	89, 91, 103, 112, 140/141, 150
Shooting star	<i>Dodecatheon meadia</i>	--	S2	SLNS	140/141, 150*
Sicklepod	<i>Arabis canadensis</i>	--	S2S3	SLNS	140/141, 150
Silver bell	<i>Halesia Carolina</i>	--	Alabama Champion Tree		49
Silvery glade fern	<i>Athyrium thelypteroides</i>	--	S1S2	SLNS	150
Single-head pussytoes	<i>Antennaria solitaria</i>	--	S3?	SLNS	140/141, 150
Slender toothwort	<i>Dentaria heterophylla</i>	--	S2S3	SLNS	140/141, 150
Smoother sweet-cicely	<i>Osmorhiza longistylis</i>	--	S3	SLNS	140/141, 150
Spotted wintergreen	<i>Chimaphila maculata</i>	--	S2	SLNS	140/141, 150
Stonecrop	<i>Sedum ternatum</i>	--	S2	SLNS	12, 112, 140/141, 150*
Turk's cap lily	<i>Lilium superbum</i>	--	S3	SLNS	140/141, 150
Two-leaf toothwort	<i>Dentaria diphylla</i>	--	S1S2	SLNS	140/141, 150
Virginia pine	<i>Pinus virginiana</i>	--	S2	SLNS	12, 112, 140/141, 150*
Virginia bluebells	<i>Mertensia virginica</i>	--	S1S2	SLNS	140/141, 150
Wahoo	<i>Euonymus atropurpureus</i>	--	S2S3	SLNS	12, 112, 140/141, 150
Walking fern	<i>Asplenium rhizophyllum</i>	--	S1S2	SLNS	12, 112, 140/141, 150
Waterleaf	<i>Hydrophyllum appendiculatum</i>	--	S2?	SLNS	140/141, 150
White trout-lily	<i>Erythronium albidum</i>	--	S1S2	SLNS	49
White turtlehead	<i>Chelone glabra</i>	--	S3	SLNS	140/141, 150*
Wild columbine*	<i>Aquilegia canadensis</i>	--	S1S2	SLNS	140/141, 150*
Wild hyacinth	<i>Camassia scilloides</i>	--	S2S3	SLNS	140/141, 150
Woodrush	<i>Luzula acuminata</i>	--	S3	SLNS	140/141, 150*
Yellow trout-lily	<i>Erythronium rostratum</i>	--	S1S2	SLNS	140/141, 150*

Common Name	Scientific Name	Federal Status	State Rank	State Status	Parcels
Yellowwood	<i>Cladrastis kentukea</i>	--	S2	SLNS	12, 112, 140/141, 150
Historical Records Species					
Alabama glade- cress	<i>Leavenworthia alabamica</i>	--	S2	SLNS	49, 59
Alabama lipfern	<i>Cheilanthes alabamensis</i>	--	S3	SLNS	49
Allegheny-spurge	<i>Pachysandra procumbens</i>	--	S3	SLNS	89, 91, 103
Autumn goldenrod	<i>Solidago sphacelata</i>	--	S1S2	SLNS	140/141
Carolina willow	<i>Salix caroliniana</i>	--	S3	SLNS	140/141, 150
Dwarf larkspur	<i>Delphinium tricorne</i>	--	S2	SLNS	12, 112
Dutchman's breeches*	<i>Dicentra cucullaria</i>	--	S2	SLNS	49*
Georgia rock-cress	<i>Arabis georgiana</i>	C	S1 (X?)	SLNS	59
Giant chickweed	<i>Stellaria pubera</i>	--	S2S3	SLNS	12, 112, 140/141*
Monkey-face orchid	<i>Platanthera integrilabia</i>	C (X)	S1	SLNS	140/141, 150
Perideridia	<i>Perideridia americana</i>	--	S1S2	SLNS	140/141, 150
Sedge*	<i>Carex picta</i>	--	S2S3	SLNS	140/141*
Single-head pussytoes	<i>Antennaria solitaria</i>	--	S3?	SLNS	12, 112
Slender toothwort	<i>Dentaria heterophylla</i>	--	S2S3	SLNS	12, 112, 140/141*
Virginia pine	<i>Pinus virginiana</i>	--	S2	SLNS	89

-- = Not applicable

* Indicates those species that are reported from within 1 mile of the parcel

Federal abbreviations: C = Candidate; C (X) = Candidate extirpated

State status abbreviations: SLNS = No state status

State rank abbreviations: S1 = Critically imperiled, often with five or fewer occurrences; S2 = Imperiled, often with <20 occurrences, S3 = Rare or uncommon, often with <80 occurrences; S4 = Uncommon, but not rare; S#S# = Occurrence numbers are uncertain; S#? = Inexact numeric rank; S# (X?) = Inexact numeric rank possibly extirpated

Table 6. Norris Reservoir Plants of Conservation Concern Found Within 5 Miles of the Designated Parcels

Common Name	Scientific Name	Federal Status	State Rank	State Status	Parcels
American barberry	<i>Berberis canadensis</i>	--	S2	SPCO	272
Appalachian bugbane	<i>Cimicifuga rubifolia</i>	--	S3	THR	6/8, 315
American ginseng	<i>Panax quinquefolius</i>	--	S3S4	S-CE	6/8, 21, 66, 77*, 80, 84, 87, 209, 272, 297, 301, 310, 315
Canada lily	<i>Lilium canadense</i>	--	S3	THR	6/8, 21, 66, 272
Goldenseal	<i>Hydrastis canadensis</i>	--	S3	S-CE	21, 66, 118, 124, 209, 272, 301
Kentucky rosin-weed	<i>Silphium wasiotense</i>	--	S2	END	6/8, 21, 66*, 77*, 80, 84, 87, 301, 310, 310
Large-leaved grass-of-parnassus	<i>Parnassia grandifolia</i>	--	S3	SPCO	118, 124, 140
Large roundleaf orchid	<i>Platanthera orbiculata</i>	--	S3	THR	209
Leatherleaf meadowrue	<i>Thalictrum coriaceum</i>	--	S1	THR	21
Meehania mint(heart-leaf meehania)	<i>Meehania cordata</i>	--	S2	THR	6/8, 66, 77*, 80, 84, 87, 293, 297, 301, 310, 315
Mountain honeysuckle	<i>Lonicera dioica</i>	--	S2	SPCO	66, 87
Northern bush-honeysuckle	<i>Diervilla lonicera</i>	--	S2	THR	6/8, 315
Northern white cedar	<i>Thuja occidentalis</i>	--	S3	SPCO	6/8, 21, 66, 77*, 80, 84, 87, 118, 124, 140, 315
Ozark bunchflower	<i>Melanthium woodii</i>	--	S1	END	6/8, 21, 66, 87
Palamocladium	<i>Palamocladium leskeoides</i>	--	S1	THR	6/8, 315
Pink lady-slipper	<i>Cypripedium acaule</i>	--	S4	S-CE	6/8, 21, 66, 77*, 80, 84, 87, 209, 293, 297, 301, 310, 315
Rough hawkweed	<i>Hieracium scabrum</i>	--	S2	THR	21
Spreading false-foxglove	<i>Aureolaria patula</i>	--	S3	SPCO	6/8, 21, 66, 109, 118, 124, 140, 315
Sullivantia	<i>Sullivantia sullivantii</i>	--	S1	END	6/8, 66, 77*, 80, 84, 87, 315
Historical Record Species					
Alderleaf buckthorn	<i>Rhamnus alnifolia</i>	--	S1	END	66, 77*, 80, 84, 87
Goldenseal	<i>Hydrastis canadensis</i>	--	S3	S-CE	6/8
Horned beakrush	<i>Rhynchospora capillacea</i>	--	SH	E-P	66, 77*, 80, 84, 87
Large-leaved grass-of-parnassus	<i>Parnassia grandifolia</i>	--	S3	SPCO	6/8, 315
Sharp's homaliadelphus	<i>Homaliadelphus sharpii</i>	--	S1	END	6/8, 66, 77*, 80, 84, 87, 315
Spike-rush	<i>Eleocharis intermedia</i>	--	S1	END	66*, 80, 84, 87, 272
Swamp lousewort	<i>Pedicularis lanceolata</i>	--	S1S2	SPCO	272
Tall larkspur	<i>Delphinium exaltatum</i>	--	S2	END	6/8, 315

-- = Not applicable

* Indicates those species that are reported from within 1 mile of the parcel

State status abbreviations: END = Endangered; E-P = Endangered, possibly extirpated; S-CE = Special concern-commercially exploited; SPCO = Species of special concern; THR = Threatened

State rank abbreviations: S1 = Critically imperiled, often with five or fewer occurrences; S2 = Imperiled, often with <20 occurrences; S3 = Rare or uncommon, often with <80 occurrences; S4 = Uncommon, but not rare; SH = State Historic; S#S#=#occurrence numbers are uncertain

Table 7. Guntersville Reservoir Plants of Conservation Concern Found Within 5 Miles of the Designated Parcels

Common Name	Scientific Name	Federal Status	State Rank	State Status	Parcels
Alabama lipfern	<i>Cheilanthes alabamensis</i>	--	S3	SLNS	20a, 21, 29, 43, 49, 158
Alabama snow-wreath	<i>Neviusia alabamensis</i>	--	S2	SLNS	186
American columbo	<i>Frasera caroliniensis</i>	--	S2	SLNS	158
American smoke-tree	<i>Cotinus obovatus</i>	--	S2	SLNS	102, 108, 109, 110, 114, 186
Appalachian quillwort	<i>Isoetes engelmannii</i>	--	S3	SLNS	236
Butler's quillwort	<i>Isoetes butleri</i>	--	S2	SLNS	20a, 21, 29*, 32, 43, 49, 61, 186, 214, 216, 218, 227, 228, 229, 248, 249, 267
Carolina silverbell	<i>Halesia carolina</i>	--	S2	SLNS	29, 43, 49, 102, 108, 109, 110, 114, 186, 204, 214, 216*, 218*, 227, 228*, 229*, 231, 236, 248, 249, 267
Carolina spring-beauty	<i>Claytonia caroliniana</i>	--	S1	SLNS	20a, 21, 29, 43, 49, 61, 65, 214, 216, 218, 227, 228, 229, 249
Chestnut oak	<i>Quercus montana</i>	--	Alabama Champion Tree		29, 43, 49, 214, 216, 218, 227, 228, 229*, 231, 236, 248, 249, 267
Cumberland rosinweed	<i>Silphium brachiatum</i>	--	S2	SLNS	29, 43, 49, 65, 102, 108, 109, 110, 114, 186, 214, 216, 218, 227, 228, 229, 248, 249
Deodara cedar	<i>Cedrus deodara</i>	--	Alabama Champion Tree		29, 43, 49, 214, 216, 218, 227, 228*, 229*, 231, 236, 248, 249, 267
Dutchman's breeches	<i>Dicentra cucullaria</i>	--	S2	SLNS	158
Dwarf filmy-fern	<i>Trichomanes petersii</i>	--	S2	SLNS	204
False helleborne	<i>Melanthium parviflorum</i>	--	S1S2	SLNS	61
Featherfoil	<i>Hottonia inflata</i>	--	S2	SPCO	158
Goldenseal	<i>Hydrastis canadensis</i>	--	S2	SLNS	186, 236
Granite gooseberry	<i>Ribes curvatum</i>	--	S2	SLNS	43, 49, 61
Great yellow wood-sorrel	<i>Oxalis grandis</i>	--	S1	SLNS	114, 186
Harper's dodder	<i>Cuscuta harperi</i>	--	S2	SLNS	214, 216, 218
Limestone adder's-tongue	<i>Ophioglossum engelmannii</i>	--	S2S3	SLNS	20a, 21, 29, 43, 49, 267
Little river canyon onion	<i>Allium speculae</i>	--	S2	SLNS	204, 214, 216, 218
Michaux leavenworthia	<i>Leavenworthia uniflora</i>	--	S2	SLNS	20a, 21, 29*, 32, 43*, 49*, 61, 186, 214, 216, 218, 227, 228, 229*, 231, 248, 249, 267
Mohr's rosin-weed	<i>Silphium mohrii</i>	--	S1	SLNS	29, 43, 49, 214, 216, 218, 227, 228, 229, 248, 249
Nuttall's rayless golden-rod	<i>Bigelovia nuttallii</i>	--	S3	SLNS	214, 216, 218, 228, 229
One-flowered broomrape	<i>Orobanche uniflora</i>	--	S2	SLNS	204
Ovate catchfly	<i>Silene ovata</i>	--	S2	SLNS	29, 43, 49, 214, 216, 218, 227, 228, 229, 248, 249
Pasture glade-cress	<i>Leavenworthia exigua</i> var. <i>lutea</i>	--	S1	SLNS	20a, 21, 29*, 32, 43, 49, 61, 214, 216, 218, 227, 228, 229*, 231, 248, 249, 267
Pink turtlehead	<i>Chelone lyonii</i>	--	S1	SLNS	20a, 21, 29, 267
Price's potato-bean	<i>Apios priceana</i>	LT	S2	SLNS	20a, 65, 102, 108, 109, 110
Prickly gooseberry	<i>Ribes cynosbati</i>	--	S1S2	SLNS	186

Common Name	Scientific Name	Federal Status	State Rank	State Status	Parcels
Scarlet Indian-paintbrush	<i>Castilleja coccinea</i>	--	S1	SLNS	214, 216, 218, 228, 229
Sedge	<i>Carex purpurifera</i>	--	S2	SLNS	204
Silky-camellia	<i>Stewartia malacodendron</i>	--	S2S3	SLNS	204
Southern red trillium	<i>Trillium sulcatum</i>	--	S1	SLNS	204
Sunnybell	<i>Schoenolirion wrightii</i>	--	S1	SLNS	214, 216, 218, 228, 229
Sweetflag	<i>Acorus calamus</i>	--	S1	SLNS	29, 158, 214, 216, 218, 227, 228, 229*, 231, 236, 248, 249, 267
Tennessee leafcup	<i>Polymnia laevigata</i>	--	S2S3	SLNS	108, 109, 110, 114, 186*
Twinleaf	<i>Jeffersonia diphylla</i>	--	S2	SLNS	139, 186
Wahoo	<i>Euonymus atropurpureus</i>	--	S3	SLNS	186
Waterweed	<i>Elodea canadensis</i>	--	S1	SLNS	20a, 21, 29, 43, 49, 61*, 65, 207
Willow oak	<i>Quercus phellos</i>	--	Alabama Champion Tree		214, 227, 228, 229, 248, 249
Witch-alder	<i>Fothergilla major</i>	--	S2	SLNS	204
Yellow giant-hyssop	<i>Agastache nepetoides</i>	--	S1	SLNS	158
Historical Record Species					
Bog goldenrod	<i>Solidago uliginosa</i>	--	SH	SLNS	
Dutchman's breeches	<i>Dicentra cucullaria</i>	--	S2	SLNS	20a, 65
Granite gooseberry	<i>Ribes curvatum</i>	--	S2	SLNS	65, 207
Great yellow wood-sorrel	<i>Oxalis grandis</i>	--	S1	SLNS	158
Large whorled pogonia	<i>Isotria verticillata</i>	--	S2	SLNS	158
Monkey-face orchid	<i>Platanthera integrilabia</i>	C	S2	SLNS	158
Pussy willow	<i>Salix humilis</i>	--	S2S3	SLNS	139
Royal catchfly	<i>Silene regia</i>	--	SH	E-P	158
Sedge	<i>Carex purpurifera</i>	--	S2	SLNS	65
Sweetflag	<i>Acorus calamus</i>	--	S1	SLNS	139
Wall-rue spleenwort	<i>Asplenium ruta-muraria</i>	--	S2	SLNS	158
White-leaved sunflower	<i>Helianthus glaucophyllus</i>	--	SH	SLNS	186

-- = Not applicable

* Indicates those species that are reported from within 1 mile of the parcel.

Federal abbreviations: C = Candidate; LT= Listed threatened

State status abbreviations: E-P = Endangered, possibly extirpated ; SLNS = No state status; SPCO = Species of special concern

State rank abbreviations: S1 = Critically imperiled, often with five or fewer occurrences; S2 = Imperiled, often with <20 occurrences; S3 = Rare or uncommon, often with <80 occurrences; S4 = Uncommon, but not rare; SH = State historic; S#S# = Occurrence numbers are uncertain

Table 8. Guntersville Reservoir Resource Comments

Parcel Number	Resource Comments
20a	<ul style="list-style-type: none"> This parcel is forested shoreline bordered by more forested shoreline and a paved road. There are records of gray bats at least 0.85 mile away from the parcel. Conversion of this parcel to Zone 7 would require removal of forested habitat common in the region and would increase boat traffic slightly, as this parcel is small. There would be no impacts to terrestrial listed species. There is a potential for deep cultural deposits.
21	<ul style="list-style-type: none"> This parcel is a strip of forest area that exists between a marina and the reservoir. It is currently impacted by recreationists. There are records of gray bats greater than 1 mile from the parcel. Rezoning this parcel to Zone 7 may decrease human impacts on this area if the marina is converted to private boat docks. However, human use and impacts may increase if private docks are created in addition to the marina. Neither outcome will impact any terrestrial listed species. The shoreline and back-lying area have not been surveyed. The eastern portion is considered to have the potential for deeply buried cultural deposits.
29	<ul style="list-style-type: none"> This parcel is a forested area between a marina and private boat docks. There are records of bald eagle nests within 1.5 miles of this parcel. This section is already impacted by commercial recreation. Conversion of this area to more boat docks would increase congestion and human disturbance. Butler's quillwort, <i>Michaux leavenworthia</i>, and pasture glade-cress are three species known to occur on cedar glades and have been reported within 1 mile of the parcel. Due to the current land use, it is unlikely that habitat to support these species is present. The shoreline and back-lying area have not been surveyed. Farmsteads are depicted on the acquisition map, and there is the potential for buried deposits.
32	<ul style="list-style-type: none"> This parcel is already recreationally used and includes the Guntersville Yacht Club with several large docks. There are records of bald eagle nests over 2 miles away. Rezoning this parcel to Zone 7 would either result in no changes of human disturbance and use of the area or potentially decrease use of the area if converted to private boat docks rather than a large marina. The shoreline and back-lying area have not been surveyed. The Yacht Club lies on much of the landform, near a cultural site.
43	<ul style="list-style-type: none"> Boat traffic is heavy in this area. The parcel is adjacent to Zone 2 and Zone 4. This parcel is in an already congested area with numerous boat docks. Rezoning this parcel to Zone 7 could reduce congestion and human disturbance if this area were converted to private residential boat docks. One community dock would minimize impacts to an already congested shoreline. Two bald eagle nests are within 3 miles of the parcel, but all are over 1 mile away. Butler's quillwort, <i>Michaux leavenworthia</i>, and pasture glade-cress are three species known to occur on cedar glades and have been reported within 1 mile of the parcel. Due to the current land use, it is unlikely that habitat to support these species is present. The shoreline and back-lying area have not been surveyed. A marina has likely disturbed much of the area.
49	<ul style="list-style-type: none"> This parcel is adjacent to Zone 7 and across from two forested islands that are zoned as Zone 3. This parcel is partially forested with one dock already on it. Rezoning this parcel to Zone 7 could reduce congestion and human disturbance from the camp if this area were converted to private residential boat docks. Two bald eagle nests are within 3 miles of the parcel, but all are over 1 mile away. Butler's quillwort, <i>Michaux leavenworthia</i>, and pasture glade-cress are three species known to occur on cedar glades and have been reported within 1 mile of the parcel. Due to the current land use, it is unlikely that habitat to support these species is present. The shoreline and back-lying area have not been surveyed. Acquisition map shows

Parcel Number	Resource Comments
	structures.
61	<ul style="list-style-type: none"> • This parcel is adjacent to two parcels that are Zone 7 and are already covered in boat ramps. The parcel is a small forested section between developed shoreline. Rezoning this parcel to Zone 7 could reduce congestion and human disturbance from the camp if this area were converted to private residential boat docks. • One bald eagle nest is located 2 miles away. • The submerged aquatic species, Waterweed (<i>Elodea canadensis</i>) has been found growing near the parcel. Changes to allocations would not impact populations of waterweed. • The shoreline has been surveyed, but the back-lying area has not. No cultural resources are identified on the shoreline.
65	<ul style="list-style-type: none"> • Adjacent to two parcels that are Zone 7. This parcel is a marina. Rezoning this parcel to Zone 7 could reduce congestion and human disturbance from the camp if this area were converted to private residential boat docks. • No listed terrestrial species would be impacted. • This parcel is identified as an area with potential buried archeological deposits.
102	<ul style="list-style-type: none"> • This parcel, which has been partially developed, is adjacent to Zone 3 and Zone 4 parcels. • The upper section of this parcel could potentially be used by nesting bald eagles. A cave with gray bats occurs 2 miles from this parcel. Rezoning this parcel to Zone 7 could reduce boat traffic from the camp. One community dock rather than multiple private docks would minimize impacts to this forested parcel. • The shoreline and back-lying area have not been surveyed. The parcel is unlikely to contain significant deposits due to slope.
114	<ul style="list-style-type: none"> • This park is used recreationally, and a few small boat docks exist. There is a heron colony 130 feet away and a bald eagle nest 2.5 miles away from the parcel. Rezoning this parcel to Zone 7 may increase use of this parcel, which may disturb this heronry and increase congestion and human disturbance in the area. • The shoreline has been surveyed on the southern portion with no cultural resources identified. The northern portion and back-lying property have not been surveyed. The acquisition map shows structures. A potential for buried deposits exists.
139	<ul style="list-style-type: none"> • This parcel is a small strip of land under and adjacent to a large bridge. South and east of the parcel are developed areas and small sections of forest. The parcel is already used for recreation and as a public boat dock. Congestion and use of the area may decrease if the area is converted to private versus a public boat dock and parking lot. • There are five records of bald eagle nests within 3 miles of the parcel; the closest one is approximately 1 mile from the parcel. No listed species would be impacted by the rezoning of this area. • The shoreline has been surveyed, and no cultural resources were identified. The back-lying area has not been surveyed.
158	<ul style="list-style-type: none"> • This parcel is a narrow strip of shoreline between an industrial area and the reservoir. There is a cave with gray bat records 1.7 miles away and a record of a bald eagle nest 3 miles away. Rezoning this parcel may reduce boating traffic if converted to private docks or may increase traffic if public use is allowed in addition to private industrial use. • Neither result would impact any listed terrestrial species. • The parcel has cultural sites recorded. Buried cultural deposits are likely.
186	<ul style="list-style-type: none"> • This parcel is a strip of shoreline under and on either side of a large bridge. It is already used for recreation and as a public boat ramp. • There is a cave 0.5 mile away that may serve as a transitory gray bat roost. Should this parcel be converted to private boat docks rather than public access, boat traffic and human disturbance may decrease. Otherwise, there would be no change to the current level of disturbance in the area. Neither outcome would impact any listed species. • This parcel is adjacent to B. B. Comer Bridge, and habitat is not present for <i>Polymnia laevigata</i>, Tennessee leafcup, an Alabama state species of conservation concern that is

Parcel Number	Resource Comments
	<p>known to occur nearby.</p> <ul style="list-style-type: none"> Shoreline and area of B. B. Comer Bridge replacement have been surveyed with no cultural resources identified.
204	<ul style="list-style-type: none"> This parcel is highly developed shoreline associated with a resort. Several boat docks already exist on the parcel. There are two records of bald eagle nests within 3 miles from the parcel; the closest one being 1.2 miles away. Rezoning this parcel to Zone 7 would likely result in no changes to usage or human disturbance in the area. The shoreline and back-lying area have not been surveyed. The parcel is considered likely for buried deposits.
207	<ul style="list-style-type: none"> The majority of this parcel is highly developed with a small northeastern section that remains forested. Several boat docks already exist on the parcel. A heronry is located on two islands less than 0.25 mile from the parcel. Rezoning of this parcel to Zone 7 could increase human disturbance in the area if more boat docks are created, which could impact the heronry. The shoreline has not been surveyed. A cultural site is nearby. The parcel is considered likely for buried deposits.
214	<ul style="list-style-type: none"> This parcel is a narrow strip of shoreline associated with a marina. There are several large boat docks attached to this parcel. Should the parcel be rezoned to Zone 7, human disturbance and use could decrease if small private docks replace the large marina docks. There are no state-listed terrestrial animal species within 1 mile of the parcel, and no federal listed species within 3 miles. No impacts to listed terrestrial species are expected. The shoreline and back-lying area have not been surveyed. The acquisition map shows structures on the parcel.
216	<ul style="list-style-type: none"> This parcel consists of thin strips of shoreline that front industrial buildings. Several boat docks exist on the parcel. There is one cave on this parcel situated on private property. There are no records of terrestrial animal species within this cave. Any construction or development should be avoided within 200 feet of this area. Boating activity and congestion would increase if more docks are created as a result of rezoning this parcel to Zone 7. No listed species are expected to be impacted by rezoning this parcel. Carolina silverbell occurs within a mile of the parcel. Due to the activities present on site, habitat to support Carolina silverbell is not present. The shoreline and back-lying area have not been surveyed. The acquisition map shows structures on this parcel.
218	<ul style="list-style-type: none"> This parcel fronts a large industrial building with a bridge and small boat docks on either side. Some of the parcel is forested. The closest record of a state-listed terrestrial animal is greater than 0.4 mile away. No federally listed species records exist within 3 miles of the parcel. This parcel is at the opening of a cove lined with private boat docks. Rezoning this parcel to Zone 7 would increase the amount of boat congestion and human use in the area. Carolina silverbell occurs within a mile of the parcel. Due to the activities present on site, habitat to support Carolina silverbell is not present. The shoreline and back-lying area have not been surveyed. The acquisition map shows structures on this parcel.
227	<ul style="list-style-type: none"> This parcel consists of mostly forested shoreline with some industrial buildings. Inland lie more industrial buildings. A large dock used for industrial purposes is attached to this parcel. Nearby shorelines are all developed. The closest record of a state-listed terrestrial animal species is 0.85 mile away. No federal listed species records exist within 3 miles of the parcel. Rezoning this parcel to Zone 7 may increase boating congestion due to the addition of private boat docks if created. The shoreline and back-lying area have not been surveyed. A cultural site is present, and

Parcel Number	Resource Comments
	structures are shown on the acquisition map.
228	<ul style="list-style-type: none"> • The parcel is shoreline property adjacent to a bridge and industrial complexes. It is used for recreational purposes. • The closest record of a state-listed terrestrial animal species is 0.5 mile away. No federally listed species records exist within 3 miles of the parcel. Rezoning this parcel to Zone 7 may increase boating congestion due to the addition of private boat docks if created. • The shoreline and back-lying area have not been surveyed. A structure is shown on the acquisition map.
229	<ul style="list-style-type: none"> • This parcel, used as a city park, is forested shoreline adjacent to a bridge and developed areas with private boat docks. • The closest record of a state-listed terrestrial animal species is 0.75 mile away. No federally listed species records exist within 3 miles of the parcel. Rezoning this parcel to Zone 7 may increase boating congestion due to the addition of private boat docks if created. • The shoreline and back-lying area have not been surveyed. Several structures are shown in the vicinity on the acquisition map.
231	<ul style="list-style-type: none"> • This parcel is the shoreline access of a marina with existing large docks. • The closest record of a state-listed terrestrial animal species is 0.75 mile away. No federally listed species records exist within 3 miles of the parcel. Rezoning this parcel to Zone 7 may decrease boating congestion and human impacts if small private boat docks were created in place of large ones. • The shoreline and back-lying area have not been surveyed. A cultural site is nearby.
236	<ul style="list-style-type: none"> • One section of this parcel sits between a marina and large boat docks, while the other is deforested undeveloped shoreline. Adjacent to the parcels are highly developed areas. • The closest record of a state-listed terrestrial animal species is 0.35 mile away. A bald eagle nest exists 2.8 miles away. Rezoning this parcel to Zone 7 may cause a slight increase or decrease in boating congestion and use of the area depending on the creation of private docks and/or removal of large marina docks. • The shoreline and back-lying area have not been surveyed. A historic farmstead lies near the eastern portion of the parcel.
248	<ul style="list-style-type: none"> • This parcel fronts an industrial area next to a large bridge. Similar industrial lots lay adjacent to the parcel. The parcel consists of early successional habitat next to a structured shoreline (riprap or retaining wall). • The closest record of a state-listed species is 1 mile away, and there are no federally listed species within 3 miles of the parcel. Rezoning this parcel to Zone 7 would increase boating congestion and usage in the area if boat docks were created. • The parcel is not likely to contain intact cultural deposits due to roadway construction.
249	<ul style="list-style-type: none"> • This parcel fronts an industrial area next to a large bridge. Similar industrial lots lay adjacent to the parcel. The parcel consists of early successional habitat next to a structured shoreline (riprap or retaining wall). • The closest record of a state-listed species is 0.9 mile away, and there are no federally listed species within 3 miles of the parcel. Rezoning this parcel to Zone 7 would increase boating congestion and usage in the area if boat docks were created. • The Alabama state champion tree, Deodara cedar, is within a mile. Allocation changes to these parcels would not affect the viability of this special tree. • The shoreline and back-lying area have not been surveyed. The acquisition map shows multiple structures on this parcel.
276	<ul style="list-style-type: none"> • This parcel is recreationally used as a forested campground and county park. A few boat docks exist along the shoreline. • The closest record of a state-listed terrestrial animal species is 1.25 miles away. Four bald eagle nests exist 2.5 miles away or greater. Rezoning this parcel to Zone 7 may cause a slight increase in boating congestion and use of the area depending on the creation of boat docks.

Parcel Number	Resource Comments
	<ul style="list-style-type: none"><li data-bbox="321 262 1406 321">• The shoreline and back-lying area have not been surveyed. The acquisition map shows multiple structures on this parcel.

Table 9. Norris Reservoir Resource Comments

Parcel Number	Resource Comments
21	<ul style="list-style-type: none"> • The parcel is across from an island. • Records for hellbender and two species of shrew exist within 3 miles. Boat traffic/development associated with individual water use facilities would likely be similar or less compared to a commercial marina. • Shoreline has been surveyed, and the back-lying property has not. One archaeological site has been identified on this parcel.
66	<ul style="list-style-type: none"> • Parcel is marginal strip adjacent to Zone 4 forested tract along a narrow branch and across from a forested tract also in Zone 4. • No records of federally listed terrestrial animal species exist within 3 miles of the parcel. Conversion of the tract from Zone 6 with existing infrastructure and use as a dock and launching ramp to Zone 7 is not likely to result in significantly different impacts to terrestrial animals. • Kentucky rosin weed (<i>Silphium wasiotense</i>) is known to occur near the area. However, in the area of the boat dock and boat launch, habitat to support this species is not likely present. • Shoreline has been surveyed, and the back-lying property has not. One archaeological site has been identified on this parcel.
77	<ul style="list-style-type: none"> • This parcel is along the Clinch River. No water use facilities appear to currently exist here. Parcel and back-lying tract are forested as is the tract across the river. • No records of federally listed species occur within 3 miles. A cave and heron colony are present, but greater than 2 miles away. Conversion to Zone 7 could result in forest clearing, shoreline development, increased human use and congestion, and erosion of the shoreline through clearing and placement of docks. Increased impacts to listed terrestrial animal species or associated habitat as a result of the zone conversion are not likely to be present. • American ginseng, Kentucky rosin weed, and pink lady-slipper are known to occur within 1 mile of this parcel, but none were found within the parcel. • Shoreline has been surveyed, and the back-lying property has not. One archaeological site has been identified on this parcel.
80	<ul style="list-style-type: none"> • Parcel already has both private water use facilities and commercial use. Conversion to Zone 7 may result in either replacement of the marina with three additional private facilities resulting in a total of five private facilities, assuming the parcel remains as five sections. Impacts to the shoreline including development and human use may either remain the same or decrease slightly. • Records of gray and Indiana bats exist within 3 miles of the parcel and are associated with a cave that is greater than 2 miles away. Impacts to listed terrestrial animals and associated habitats are not expected to be different under a Zone 7 allocation. • Shoreline has been surveyed, and the back-lying property has not.
84	<ul style="list-style-type: none"> • Based on the aerial, a single water use facility exists on the parcel. Portions of the shoreline and back-lying land have been cleared, and a portion of the shoreline remains forested. Conversion to Zone 7 could result in subdivision of the tract into multiple lots and associated private water use facilities, which could result in increased clearing, development, and human use impacts in this cove. • Records of gray and Indiana bats exist within 3 miles of the parcel and are associated with a cave that is greater than 2 miles away. Impacts to terrestrial animals and associated habitats are not expected to be different under a Zone 7 allocation. • Shoreline has been surveyed, and the back-lying property has not.

Parcel Number	Resource Comments
87	<ul style="list-style-type: none"> • The harbor limits and associated infrastructure (commercial piers) span the full extent of the parcel shoreline boundary. Conversion to Zone 7 and individual private facilities may result in a decrease in the density in human use and associated boat traffic. However, the conversion likely would result in increased clearing of the back-lying property for residential development would likely result in a decrease of human use and associated boat traffic. • Records of Indiana bats and gray bats are associated with a cave that is within 0.25 mile of the parcel. However, impacts to terrestrial animals and associated habitats are not expected to be different under a Zone 7 allocation. • Shoreline has been surveyed, but the back-lying property has not.
109	<ul style="list-style-type: none"> • Parcel abuts Zone 7 tracts on either side, where private docks currently exist. The marina has a high density of boathouses fronting the parcel. • Records of federally listed species within 3 miles of the project include Indiana bat. However, impacts to listed terrestrial animals and associated habitats are not expected to be different under a Zone 7 allocation. • Shoreline and the back-lying property have not been surveyed.
118	<ul style="list-style-type: none"> • Parcel is developed extensively related to the marina. There also appear to be existing private water use facilities along the shoreline. • Records of federally listed species within 3 miles of the project include Indiana bat and an associated cave. However, impacts to listed terrestrial animals and associated habitats are not expected to be different under a Zone 7 allocation. • Shoreline and the back-lying property have not been surveyed.
124	<ul style="list-style-type: none"> • This is a very large marina fronting the shoreline of both sections of the parcel. Conversion to Zone 7 likely would result in equivalent or less impact with respect to human use, density, and related infrastructure (private docks). • There are no records of federally listed species within 3 miles of the project. A cave is present within 3 miles but greater than 0.5 mile from the parcel. Impacts to listed terrestrial animals and associated habitats are not expected to be different under a Zone 7 allocation. • Shoreline and the back-lying property have not been surveyed.
140	<ul style="list-style-type: none"> • Conversion from Zone 6 to 7 may result in increased infrastructure along the shoreline, which appears to have nothing fronting the shoreline currently. The parcel is across from a Zone 7 tract. • There are no records of federally listed species within 3 miles of the project. A cave is present within 3 miles but greater than 2 miles from the parcel. Impacts to listed terrestrial animals and associated habitats are not expected to be different under a Zone 7 allocation. • Shoreline has been surveyed, and the back-lying property has not. One cultural site has been identified on this parcel.
209	<ul style="list-style-type: none"> • Most of the shoreline inside the Long Branch embayment is undeveloped. Rezoning this portion to Zone 7 could increase boat traffic/congestion and could result in the loss of some forested shoreline. • The section closer to the main stem of the Tennessee River has two state-listed shrews and one bald eagle record occur within 3 miles. The shrews are over 1.5 miles away, and the bald eagle nest is over 2.5 miles away. No records of federally listed species were found within 3 miles of the parcel. Impacts to listed terrestrial animals and associated habitats are not expected to be different under a Zone 7 allocation. • Shoreline has been surveyed, and the back-lying property has not. Five cultural sites have been identified on this parcel.

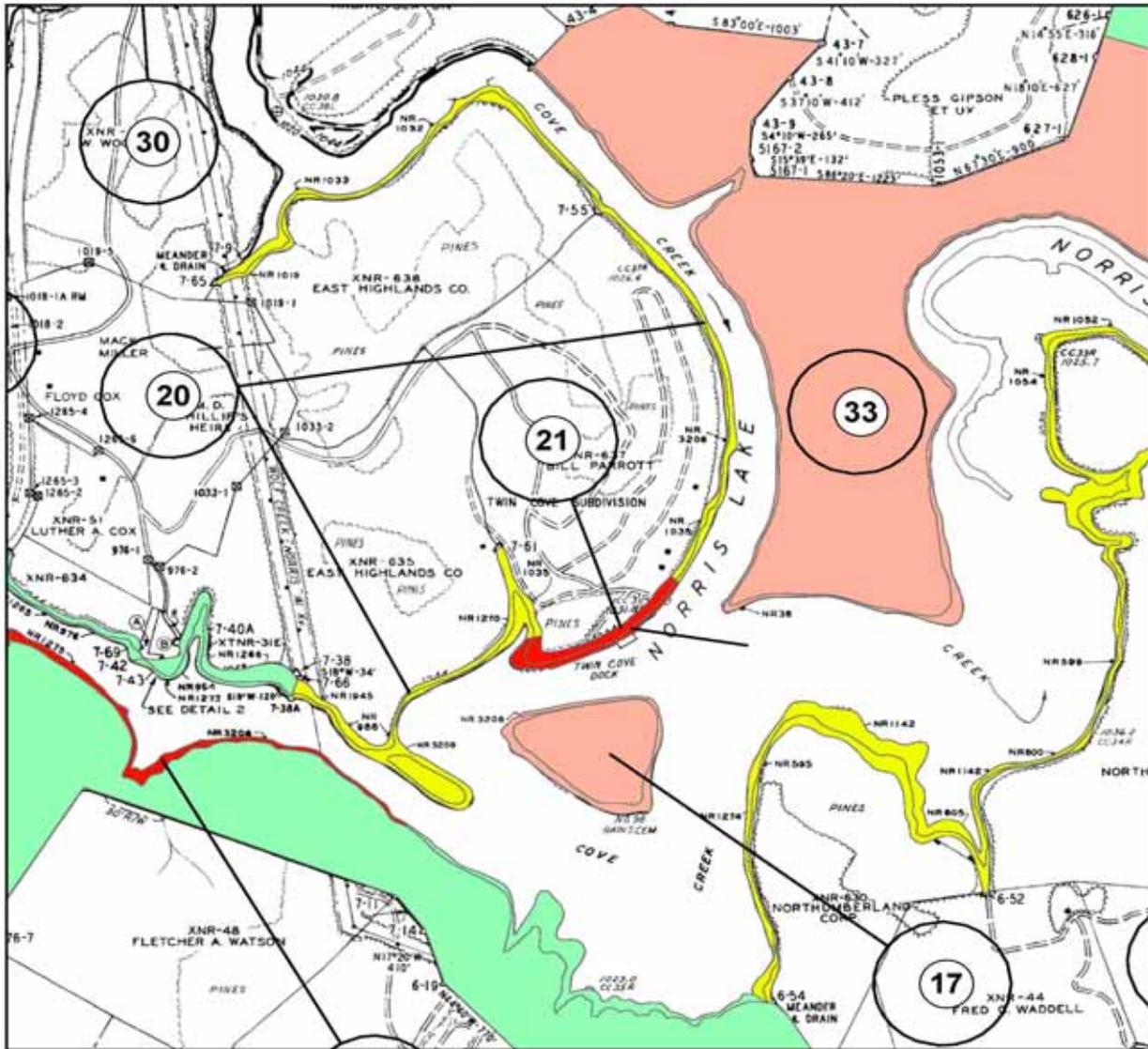
Parcel Number	Resource Comments
293	<ul style="list-style-type: none"> • This parcel already contains a boat dock at the mouth of the embayment. Rezoning this parcel to Zone 7 may cause a slight increase or decrease in boating congestion and use of the area depending on the creation of private docks and/or removal of Hickory Star Boat Dock. The southern section of this parcel inside the small embayment is a forested shoreline and could be impacted by increased private boat docks. • Several caves occur within 3 miles of this parcel, but all are over 1.5 miles away and would not be impacted. Terrestrial listed species would not be impacted. • Shoreline has been surveyed, and the back-lying property has not. Eight cultural sites have been identified on this parcel.
297	<ul style="list-style-type: none"> • This is mostly undeveloped shoreline bordered by Zone 6 and across from Zone 4. Increased boat traffic and congestion could occur as a result of rezoning this parcel as well as some loss of the forested shoreline due to dock construction. • Caves occur within 3 miles of this parcel, but all are over 1.5 miles away and would not be impacted. Terrestrial listed species would not be impacted. • Shoreline has been surveyed, and the back-lying property has not. Twelve cultural sites have been identified on this parcel.
301	<ul style="list-style-type: none"> • This parcel already contains a boat dock and is bordered by Zone 7 property on either side. Rezoning this parcel to Zone 7 might reduce boat traffic from the current Andersonville Boat Dock. • One record of the Allegheny woodrat occurs over 2.5 miles away. Terrestrial listed species would not be impacted. • Shoreline has been surveyed, but the back-lying property has not.
310	<ul style="list-style-type: none"> • The western section of the parcel already has numerous docks and is developed. The eastern section of the parcel, however, is not as developed and offers a continuous forested shoreline. The shoreline connects with undeveloped shoreline zoned 4 and is across from a Zone 4 wildlife management area. Rezoning this parcel to Zone 7 could impact the forested shoreline on the eastern portion of this parcel due to an increased number of boat docks. • A cave also occurs on this eastern portion and could be negatively impacted from increased boat dock construction and use. One record of the Allegheny woodrat occurs over 2 miles away. Terrestrial listed species would not be impacted. However a unique habitat (cave) could be negatively impacted if this parcel is rezoned to 7. • Shoreline has been surveyed, and the back-lying property has not.
315	<ul style="list-style-type: none"> • Parcel contains a marina and is heavily congested. Rezoning this parcel to Zone 7 might reduce congestion. • Records of smoky shrew and Allegheny woodrat occur over 2 miles away. A cave with the federally listed as endangered gray bat occurs over 2.5 miles away. No terrestrial listed species would be impacted. • Shoreline has been surveyed, and the back-lying property has not. One cultural site has been identified on this parcel.

Table 10. Pickwick Reservoir Resource Comments

Parcel Number	Resource Comments
12	<ul style="list-style-type: none"> • This parcel is across from a forested peninsula allocated as Zone 6. • This parcel contains bald eagle records within 1 mile. If parcel is divided into multiple lots under Zone 7, it may congest/concentrate private water use facilities; alternatively could reduce concentration of human traffic related to currently being a public park. • Four cultural sites are recorded. Numerous structures are shown on the acquisition maps.
49	<ul style="list-style-type: none"> • This parcel is across from a forested tract allocated as Zone 4. • There are gray bat cave records 0.5 mile away or more. If parcel is allocated to Zone 7, it may increase disturbance for natural resource conservation area across inlet especially with multiple private docks in addition to barge terminal; however, potential development under current Zone 5 allocation may be more detrimental than potential Zone 7 depending on construction plans. • Two cultural sites are recorded.
59	<ul style="list-style-type: none"> • This parcel is across from a forested island (Koger's Island). • There is a gray bat cave record approximately 1 mile away and bald eagle nest 2.25 miles away. If allocated to Zone 7, it may increase disturbance to island that offers potential roosting habitat for heron colonies or bald eagles, especially with multiple private docks in addition to barge terminal. However, potential development under current Zone 5 allocation may be more detrimental than potential Zone 7 depending on construction plans. • No cultural resources recorded.
89	<ul style="list-style-type: none"> • The marina is surrounded by other businesses or residential areas. • There are no listed terrestrial animal species within 3 miles; there would be no impacts to terrestrial animal species if this parcel was rezoned to Zone 7. Should this area be converted to private residential boat docks, congestion and human disturbance may decrease. • Back-lying area has not been surveyed. "Negro" cemetery recorded nearby.
91	<ul style="list-style-type: none"> • This small strip of trees is part of an existing recreation area. • There are no listed terrestrial animal species within 3 miles; if rezoned to 7, human traffic would likely increase due to use of shoreline access in addition to usage of existing recreation area. • Back-lying area has not been surveyed. The acquisition map shows structures on the parcel.
103	<ul style="list-style-type: none"> • Forested wetland parcel attached to a larger tract of forest along Bear Creek. • There are two state- and no federally listed terrestrial species within 3 miles of the parcel. The closest state-listed species is over 2 miles away. If rezoned to 7, one large dock would impact less forested wetland shoreline habitat than multiple private docks. • Back-lying area has not been surveyed. The acquisition map shows a historic farmstead at the southern edge of the parcel. The potential for cultural deposits is considered high.
112	<ul style="list-style-type: none"> • This marina is almost 3 miles away from two state-listed species and a documented cave with gray and Indiana bat records. Rezoning this parcel to Zone 7 would not impact any listed terrestrial animal species. • Back-lying area has not been surveyed.

Parcel Number	Resource Comments
140/141	<ul style="list-style-type: none"> • Sections of the shoreline of these parcels are forested; however, the majority of the area has already been developed. Shoreline access already occurs in these developed areas. • There is a record of a state-listed frog species 90 feet away and a bald eagle nest 2 miles away from these parcels. Rezoning these parcels to Zone 7 would not impact this pond but may result in the loss of sections of forest along the shore. This forested habitat is common regionally. The installation of more boat docks on the parcel would not impact any listed species; however, impacts to habitat could be minimized by using community versus private boat docks. • Back-lying areas have not been surveyed on either parcel.
150	<ul style="list-style-type: none"> • This parcel is a marina. • There is one record of a bald eagle nest 0.5 mile from the parcel. Rezoning this parcel to Zone 7 could reduce congestion and human disturbance if this area were converted to private residential boat docks. No listed species would be impacted. • There are 155 element occurrence records for plants reported within 5 miles of Parcel 150. In addition, 15 Mississippi state-listed species are located within 1 mile of the area, but no species of special concern were reported from within or directly adjacent to this tract of land. Since this area is a marginal strip fronting an existing marina, there would be limited habitat to support rare species. • Back-lying area has not been surveyed, but the shoreline was surveyed and found to have no cultural resources.

Maps of Parcels – Norris Reservoir



Legend

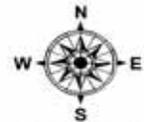
Parcel Labels

PLANNED_POLYGONS

ZONES

- Zone 2 - Project Operations
- Zone 3 - Sensitive Resource Management
- Zone 4 - Natural Resource Conservation
- Zone 5 - Industrial/Commercial
- Zone 6 - Developed Recreation
- Zone 7 - Residential Access

Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 21
 Tract No. XNR-637
 Cove Creek Mile 12R Clinch River Mile 80.2R



Map Reference:
 D-Stage 7

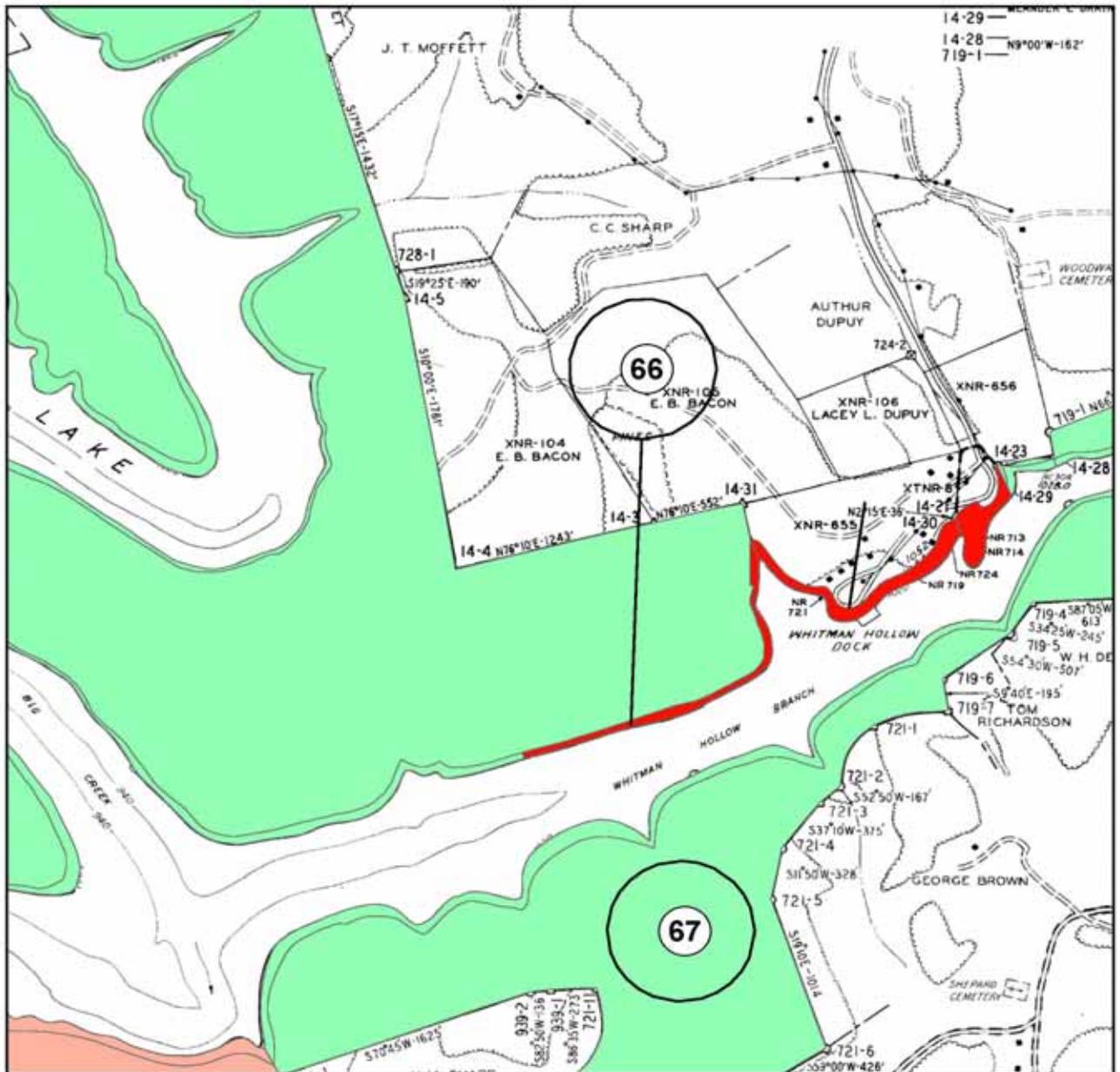


Land and Water
 Stewardship



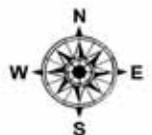
June 25, 2009

Figure 1. Norris Reservoir Parcel 21



June 25, 2009

Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 66
 Tract No. XNR-655
 Big Creek Mile 8.5L Clinch River Mile 83R



Map Reference:
D-Stage 7



Land and Water
Stewardship

Figure 2. Norris Reservoir Parcel 66

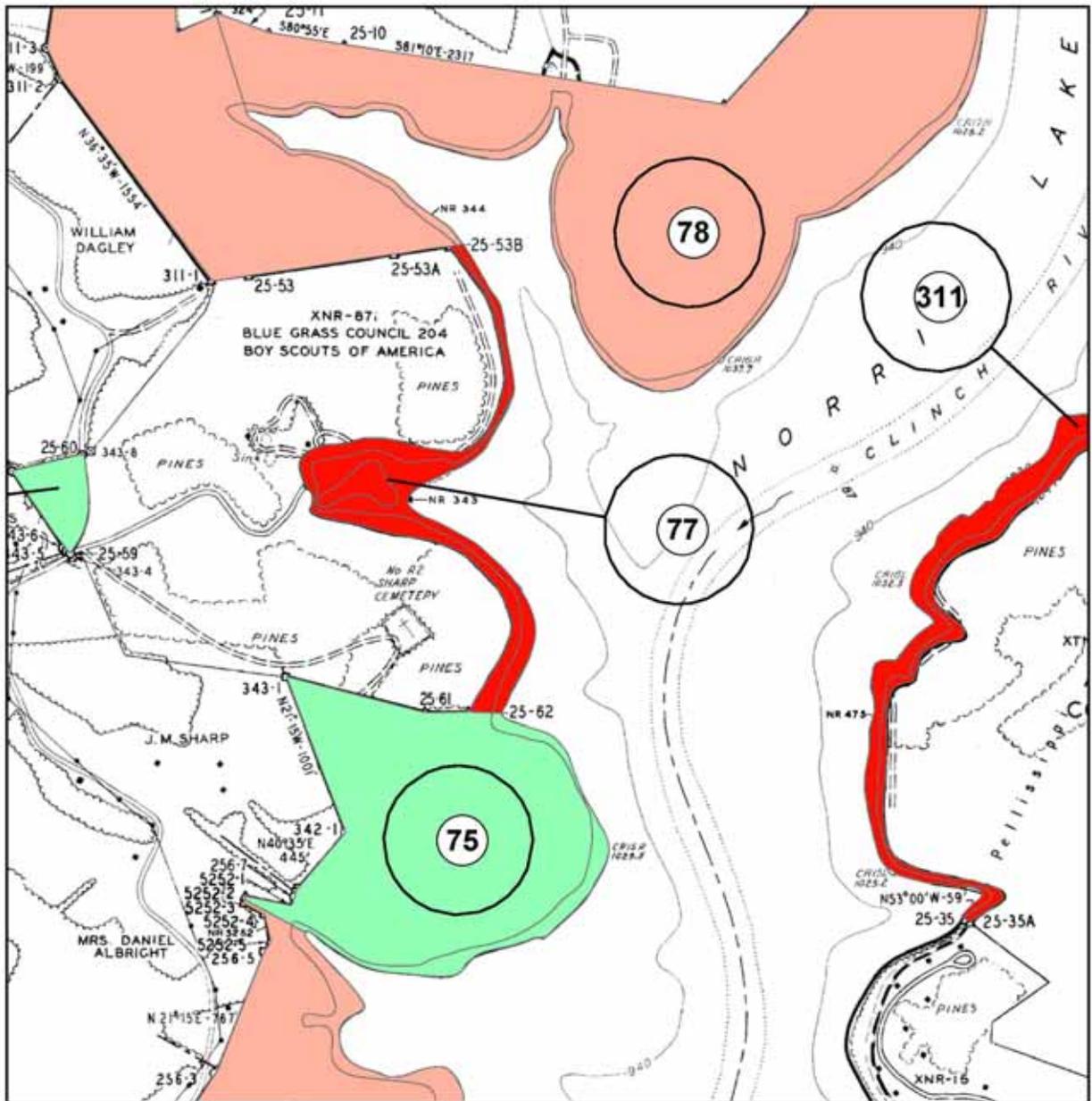


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 77
 Tract No. XNR-871
 Clinch River Mile 87.0R



Map Reference:
 D-Stage 25

 Land and Water
 Stewardship



June 25, 2009

Figure 3. Norris Reservoir Parcel 77

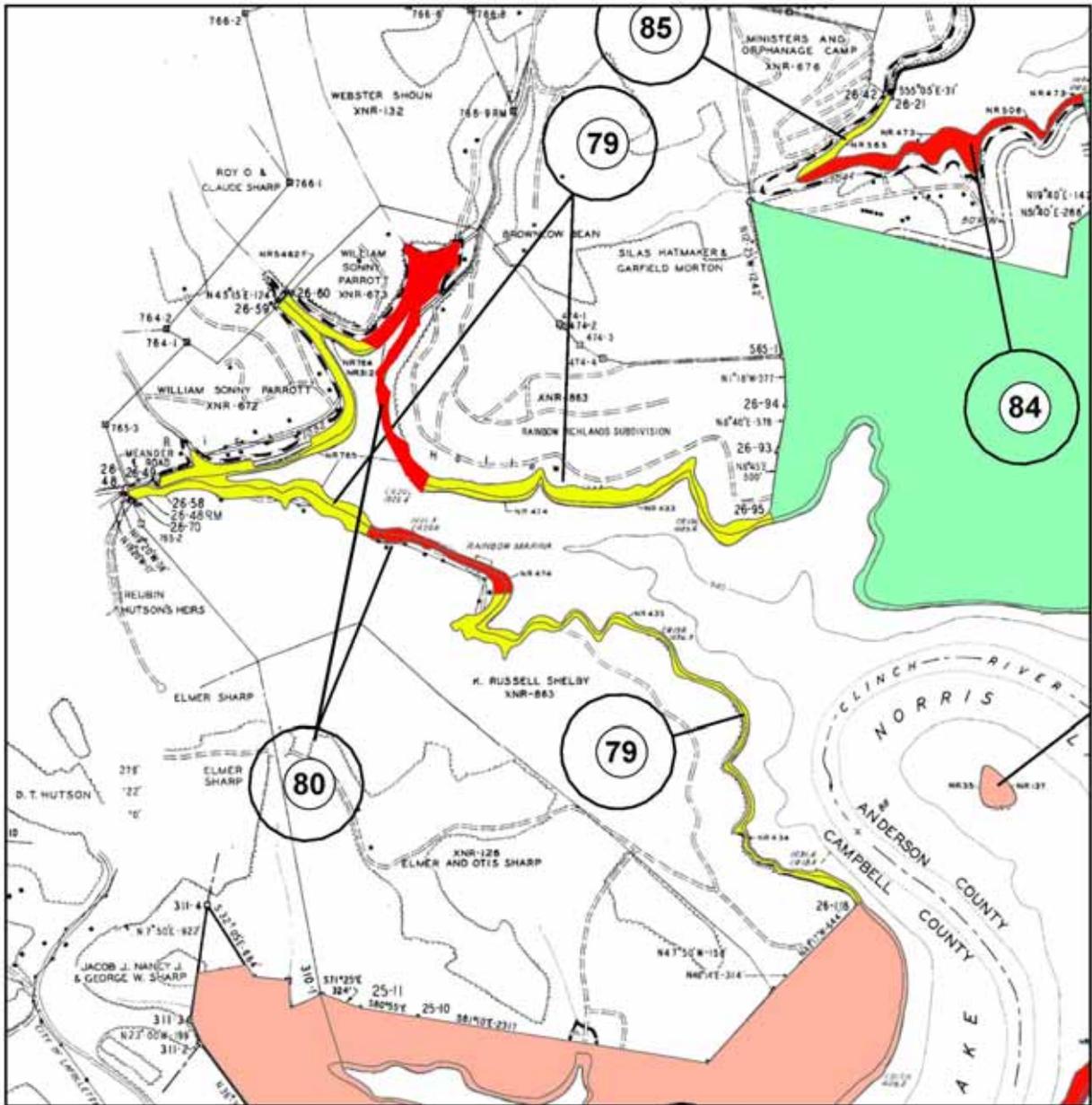
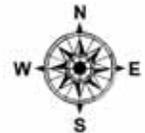


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 80
 Tract No. XNR-673, and XNR-863
 Clinch River Mile 88.1R



Map Reference:
D-Stage 26



Land and Water
Stewardship



June 25, 2009

Figure 4. Norris Reservoir Parcel 80

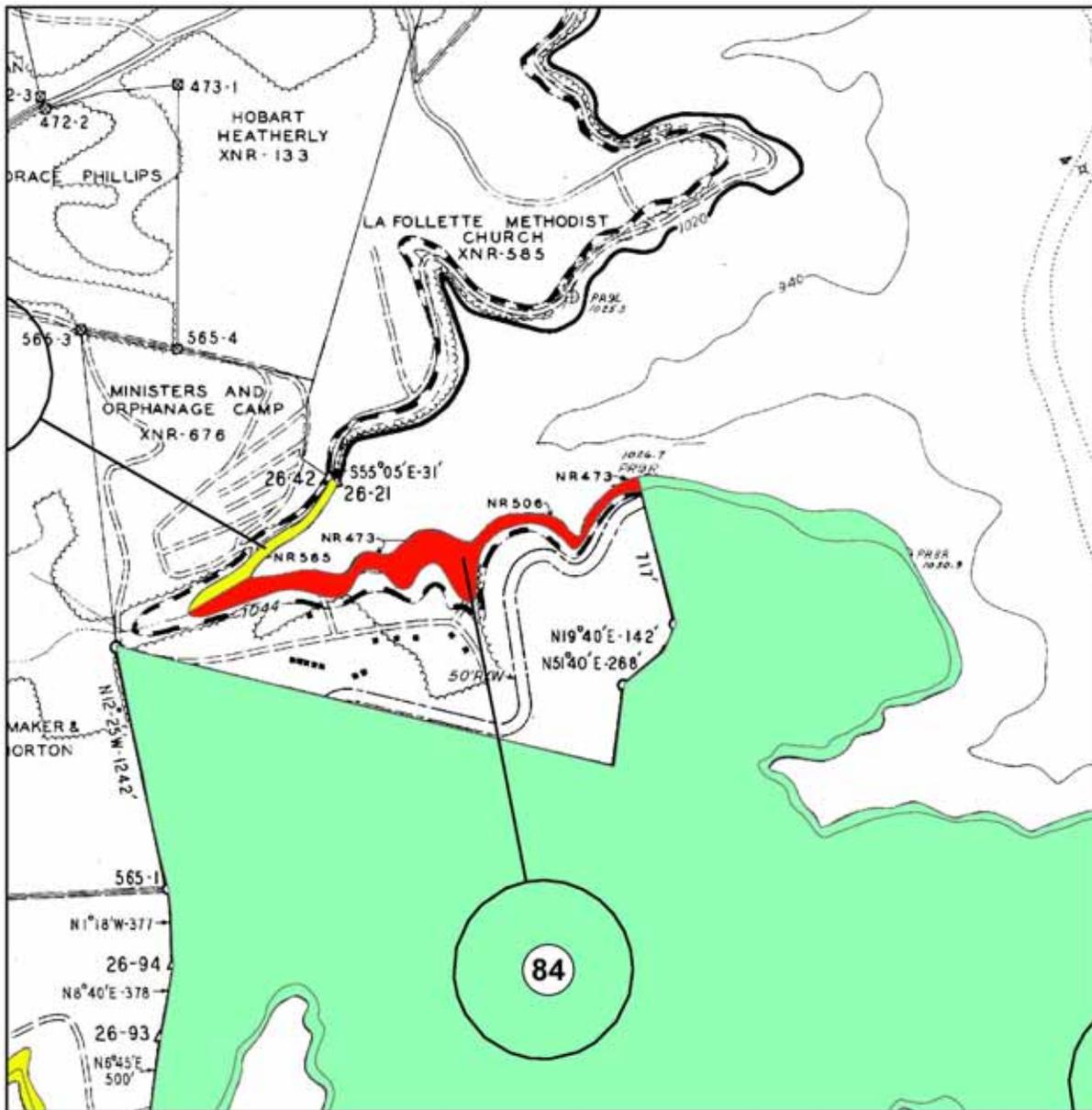
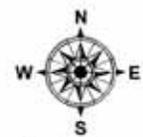


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 84
 Tract No. XNR-676
 Powell River Mile 4.0R



Map Reference:
 D-Stage 26

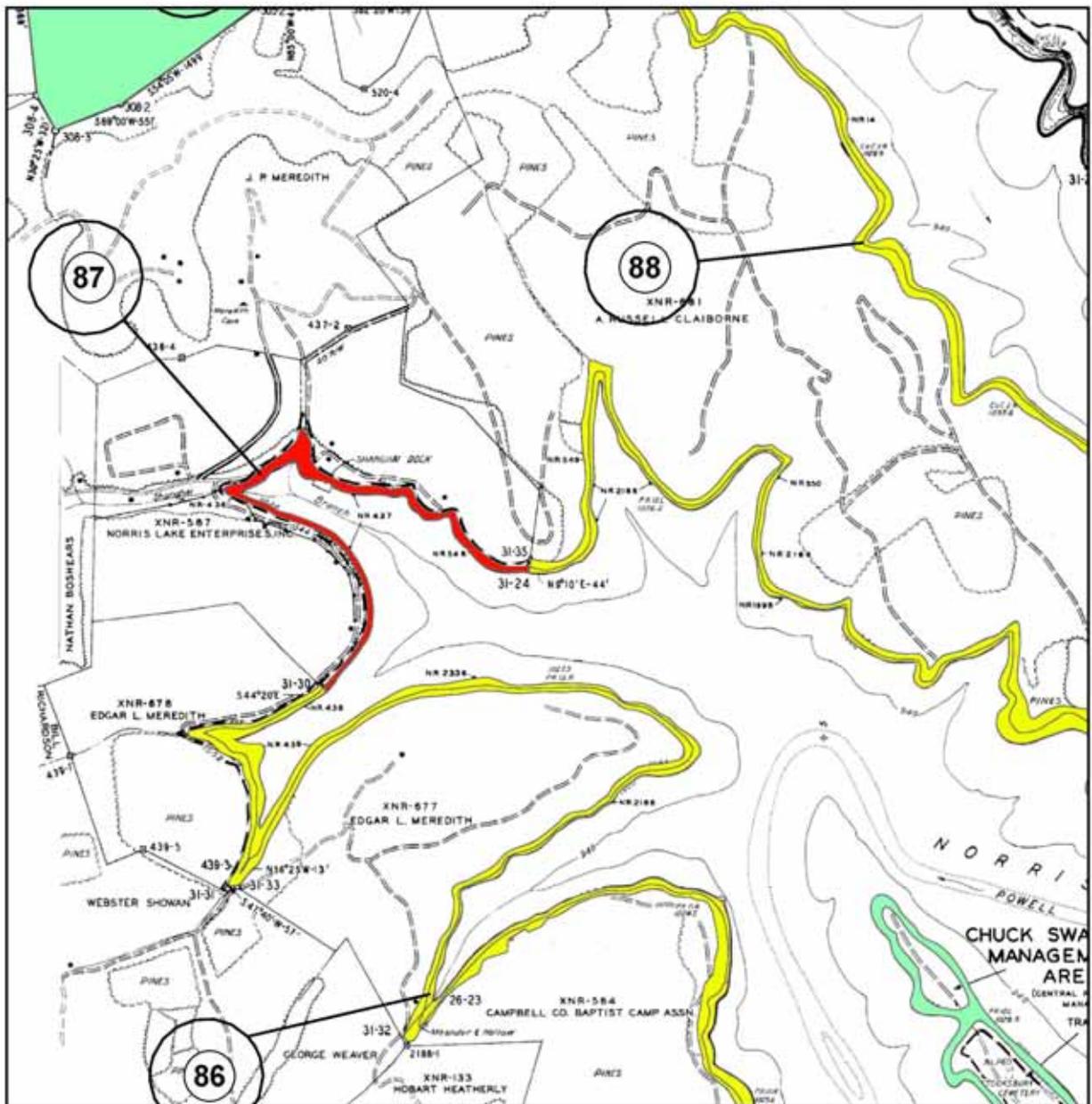


Land and Water
 Stewardship



June 25, 2009

Figure 5. Norris Reservoir Parcel 84



Legend

Parcel Labels

PLANNED_POLYGONS ZONES

- Zone 2 - Project Operations
- Zone 3 - Genitive Resource Management
- Zone 4 - Natural Resource Conservation
- Zone 5 - Industrial/Commercial
- Zone 6 - Developed Recreation
- Zone 7 - Residential Access

Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 87
 Tract No. XNR-587
 Powell River Mile 5.0R

Map Reference:
 D-Stage 31

Land and Water Stewardship



June 25, 2009

Figure 6. Norris Reservoir Parcel 87

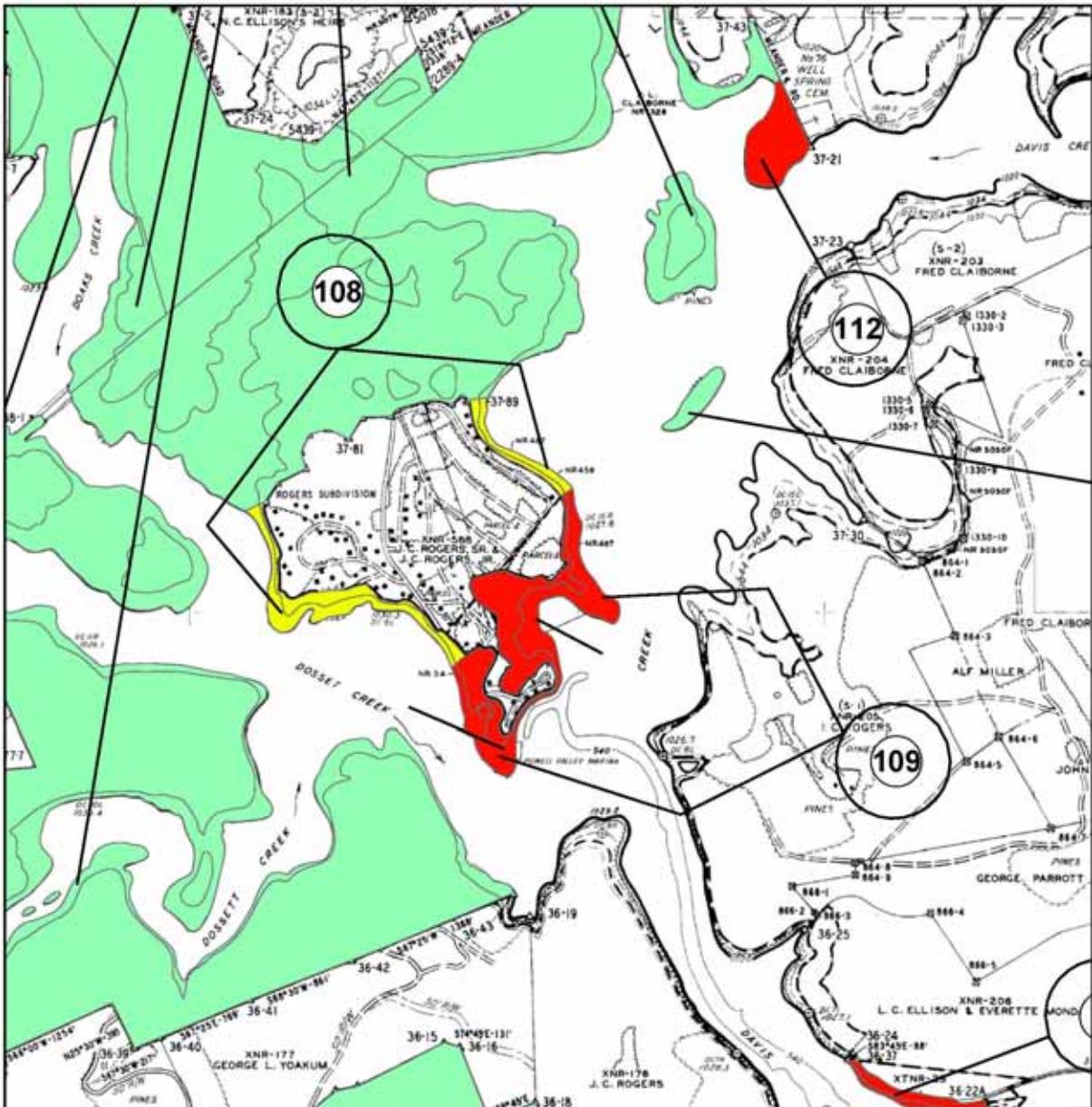
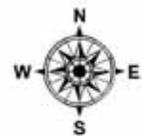


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 109
 Tract No. XNR-588
 Davis Creek Mile 4.3R and Powell River Mile 17.2R



Map Reference:
D-Stage 37



Land and Water
Stewardship



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Figure 7. Norris Reservoir Parcel 109

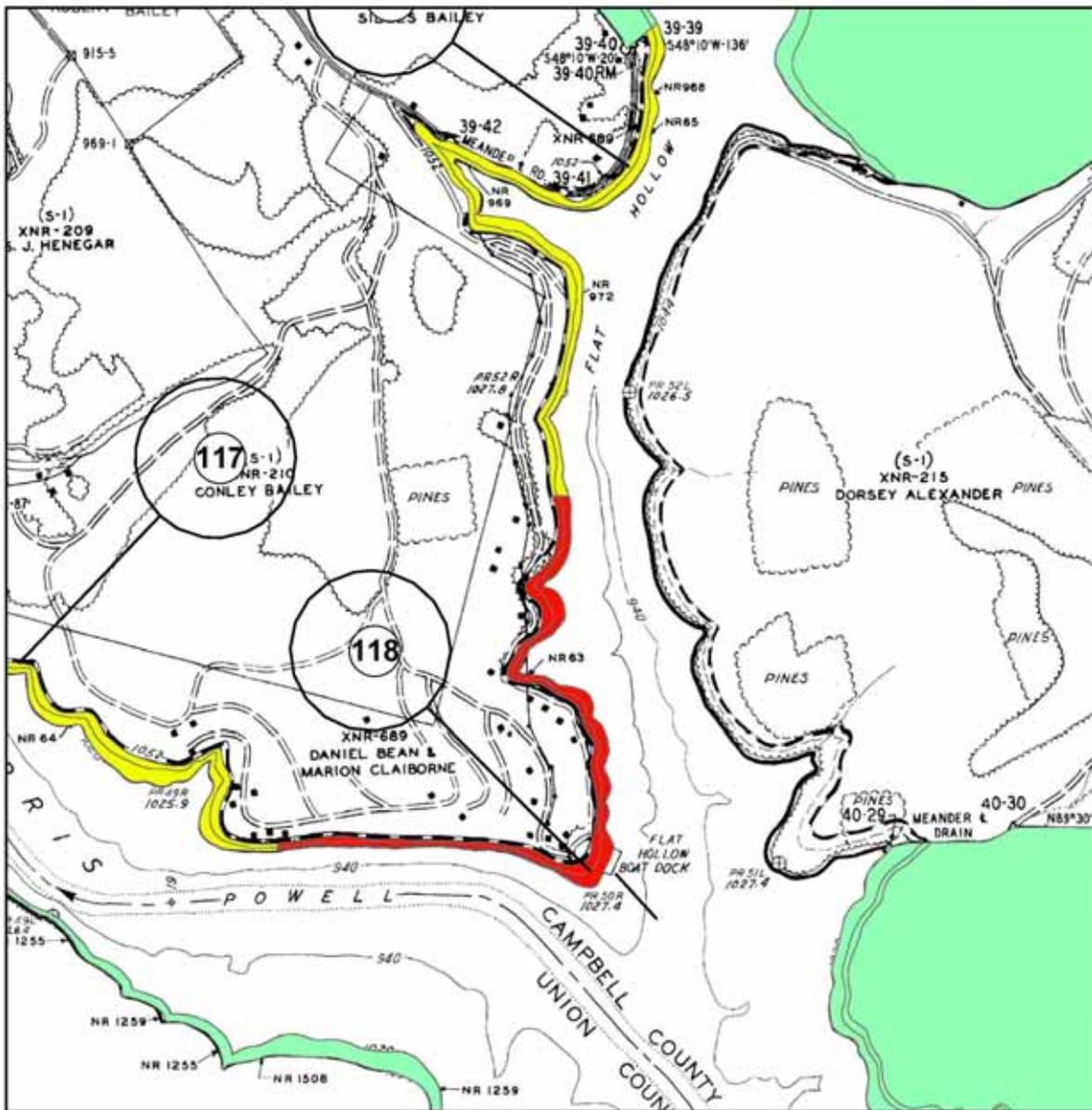


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 118
 Tract No. XNR-689
 Powell River Mile 19.4R



Map Reference:
D-Stage 40



Land and Water
Stewardship



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Figure 8. Norris Reservoir Parcel 118

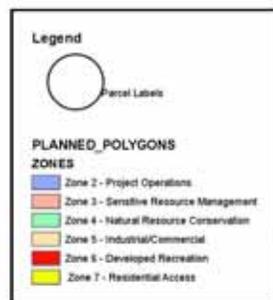
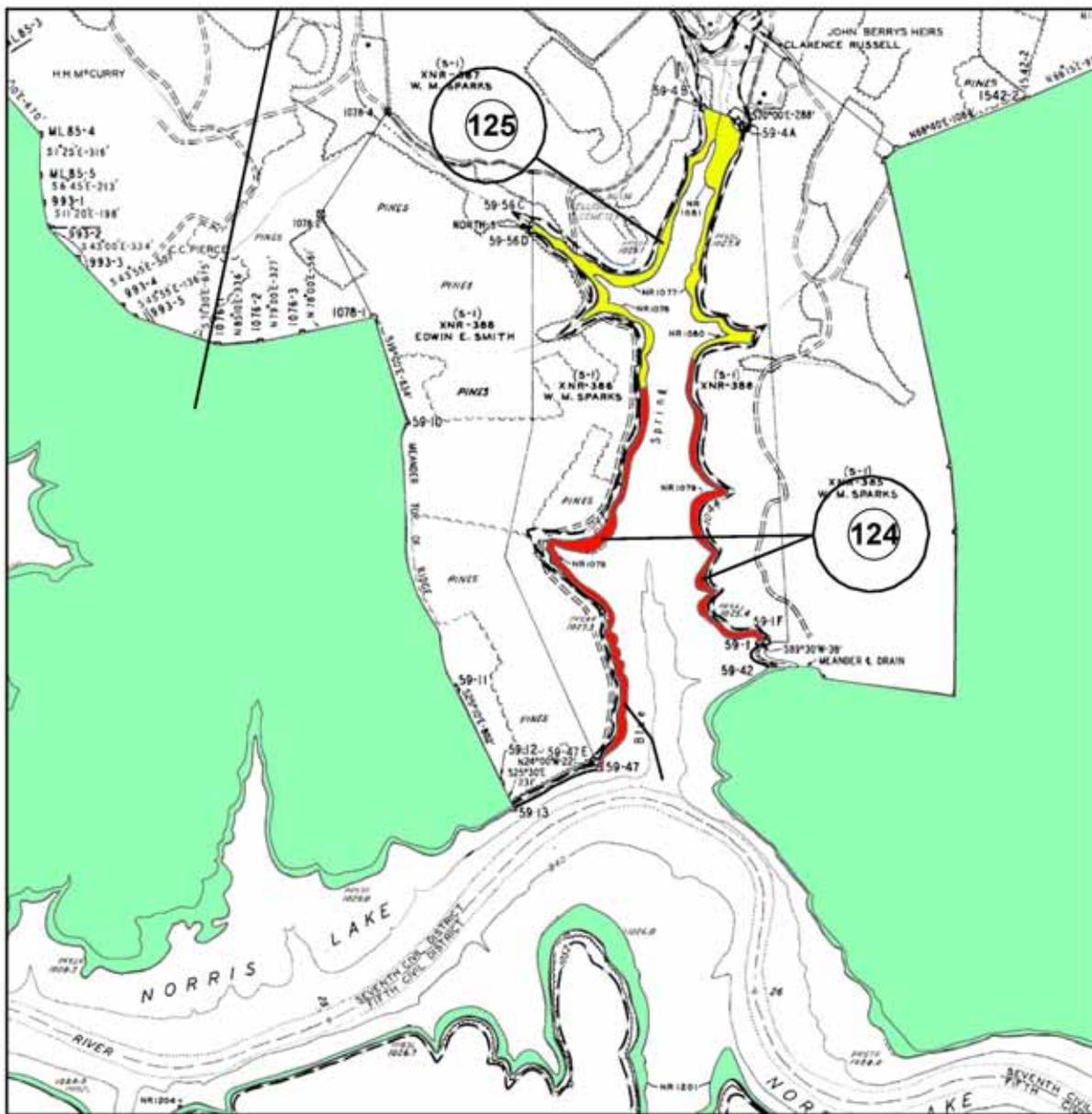
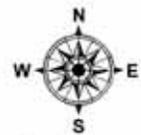


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 124
 Tract No. XNR-386
 Powell River Mile 25.7R



Map Reference:
 D-Stage 59



Land and Water
 Stewardship



June 25, 2009

Figure 9. Norris Reservoir Parcel 124

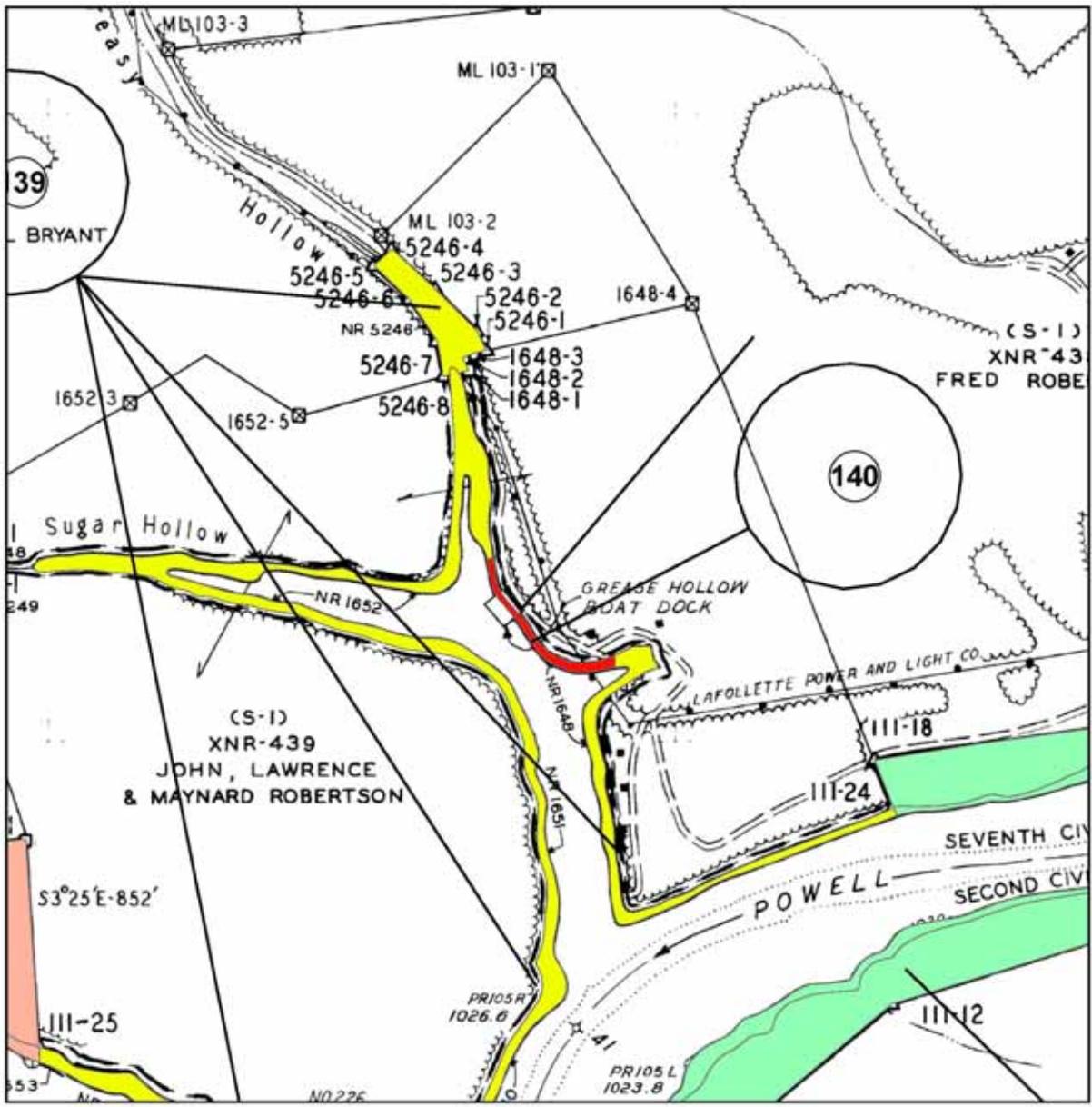


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 140
 Tract No. XNR-439 (S-1)
 Powell River Mile 42.0R



Map Reference:
 D-Stage 111

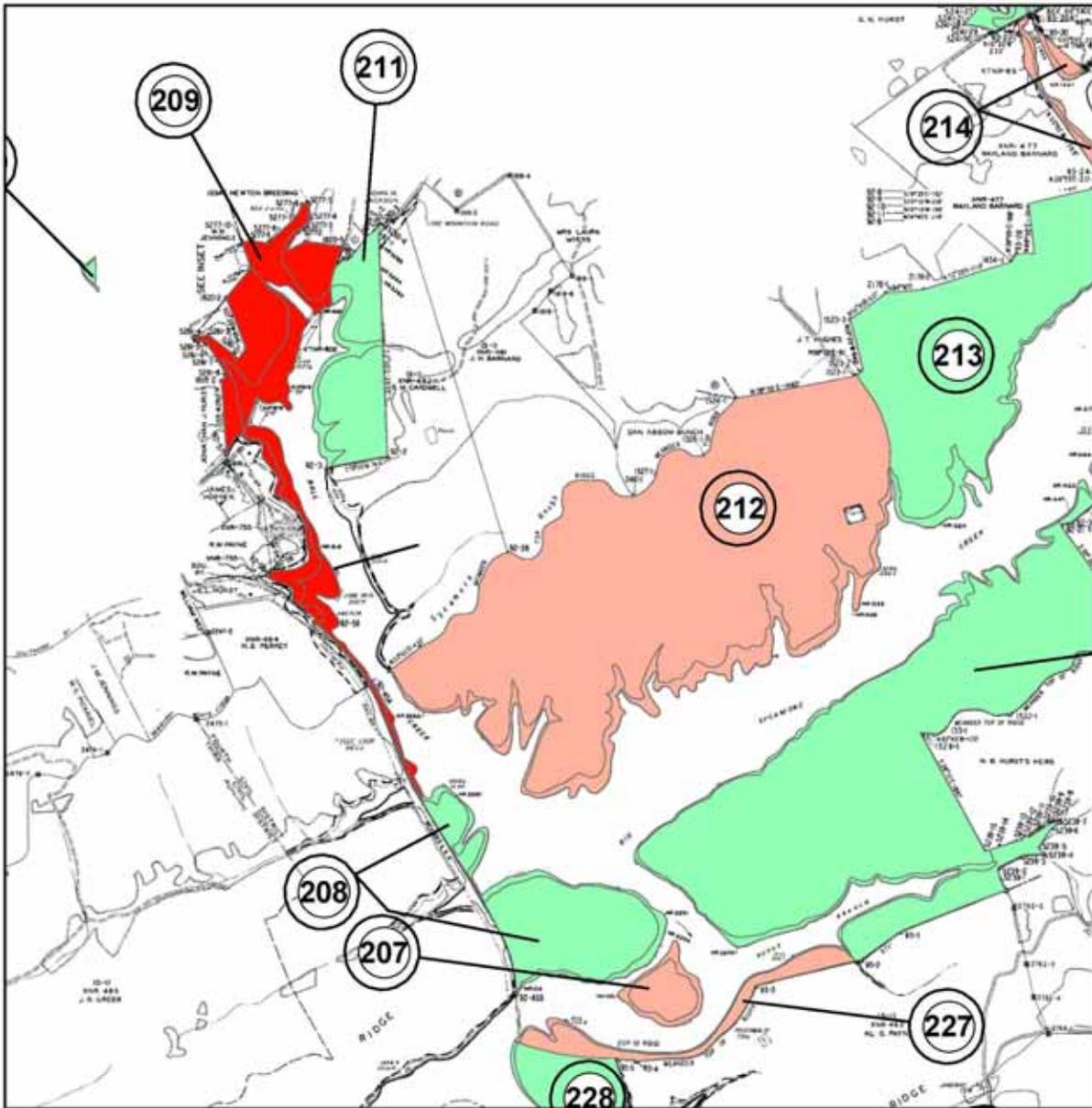


Land and Water
 Stewardship



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Figure 10. Norris Reservoir Parcel 140



Legend

○ Parcel Labels

PLANNED_POLYGONS ZONES

- Zone 2 - Project Operations
- Zone 3 - Sensitive Resource Management
- Zone 4 - Natural Resource Conservation
- Zone 5 - Industrial/Commercial
- Zone 6 - Developed Recreation
- Zone 7 - Residential Access

Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 209
 Tract No. XNR-755
 Ball Creek at Big Sycamore Creek mile 1.0R
 Clinch River mile 135.4R

N
 W E
 S

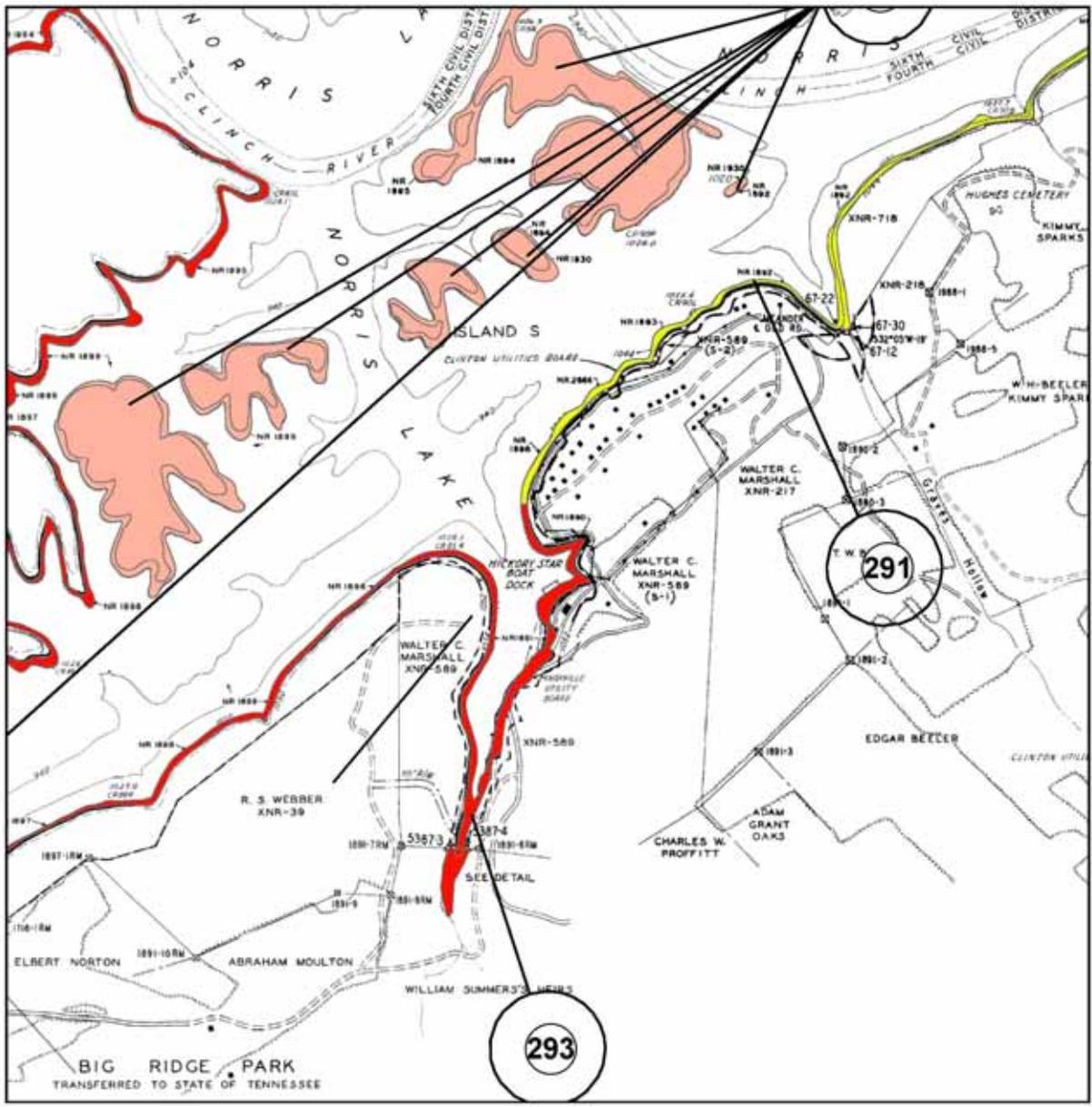
Map Reference:
 D-Stage 92

Land and Water
 Stewardship



June 25, 2009

Figure 11. Norris Reservoir Parcel 209



Legend

Parcel Labels

PLANNED_POLYGONS ZONES

- Zone 2 - Project Operations
- Zone 3 - Sensitive Resource Management
- Zone 4 - Natural Resource Conservation
- Zone 5 - Industrial/Commercial
- Zone 6 - Developed Recreation
- Zone 7 - Residential Access

Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 293
 Tract No. XNR-589
 Poor Land Creek mile .80R
 Clinch River mile 104.2L

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W E
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Map Reference:
D-Stage 67

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Land and Water Stewardship



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Figure 12. Norris Reservoir Parcel 293

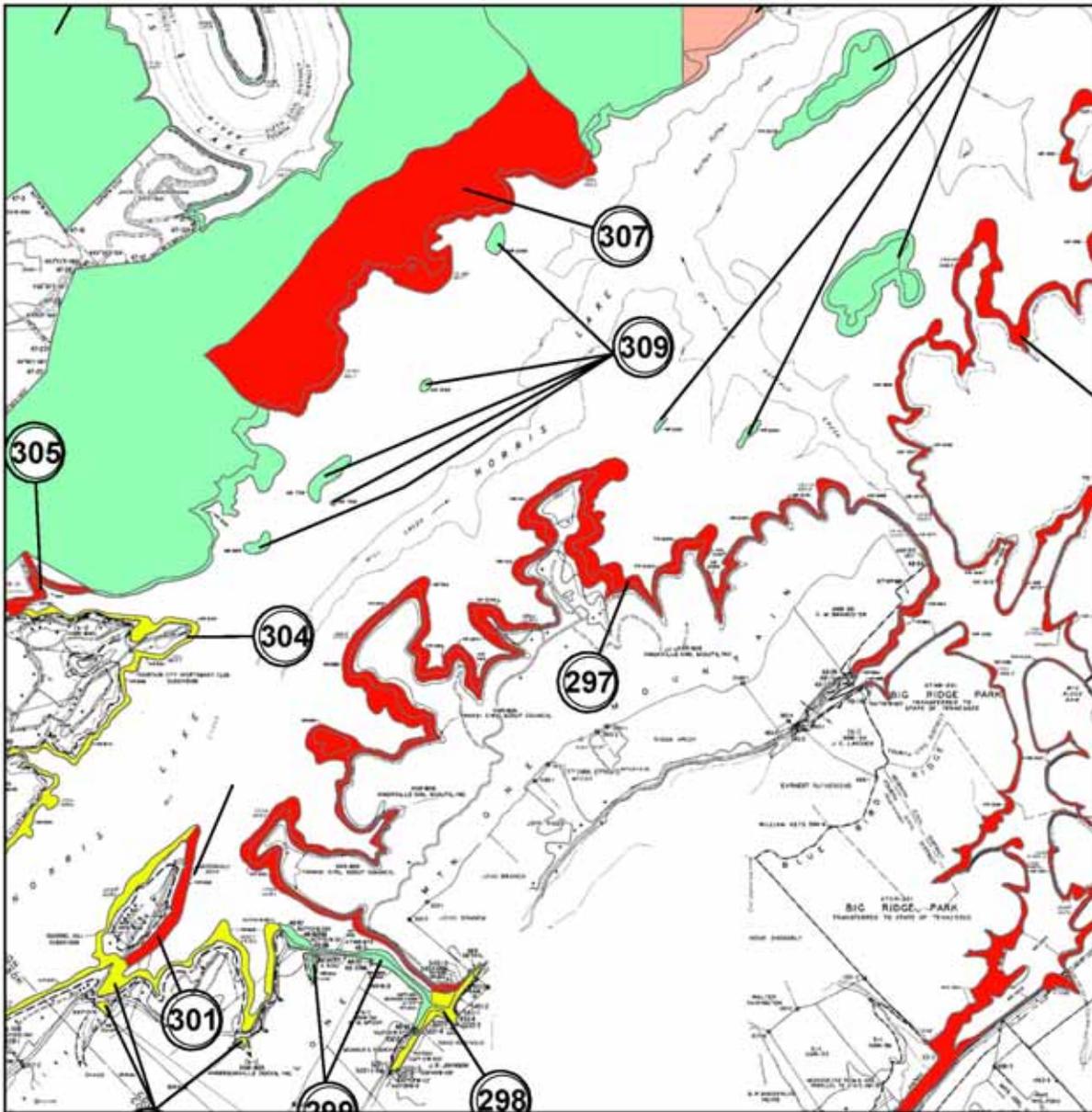


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 297
 Tract No. XNR-806 & XNR-826
 Mill Creek mile 2.0R
 Clinch River mile 97.5L



Map Reference:
 D-Stage 48 & 49



Land and Water
 Stewardship



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Figure 13. Norris Reservoir Parcel 297

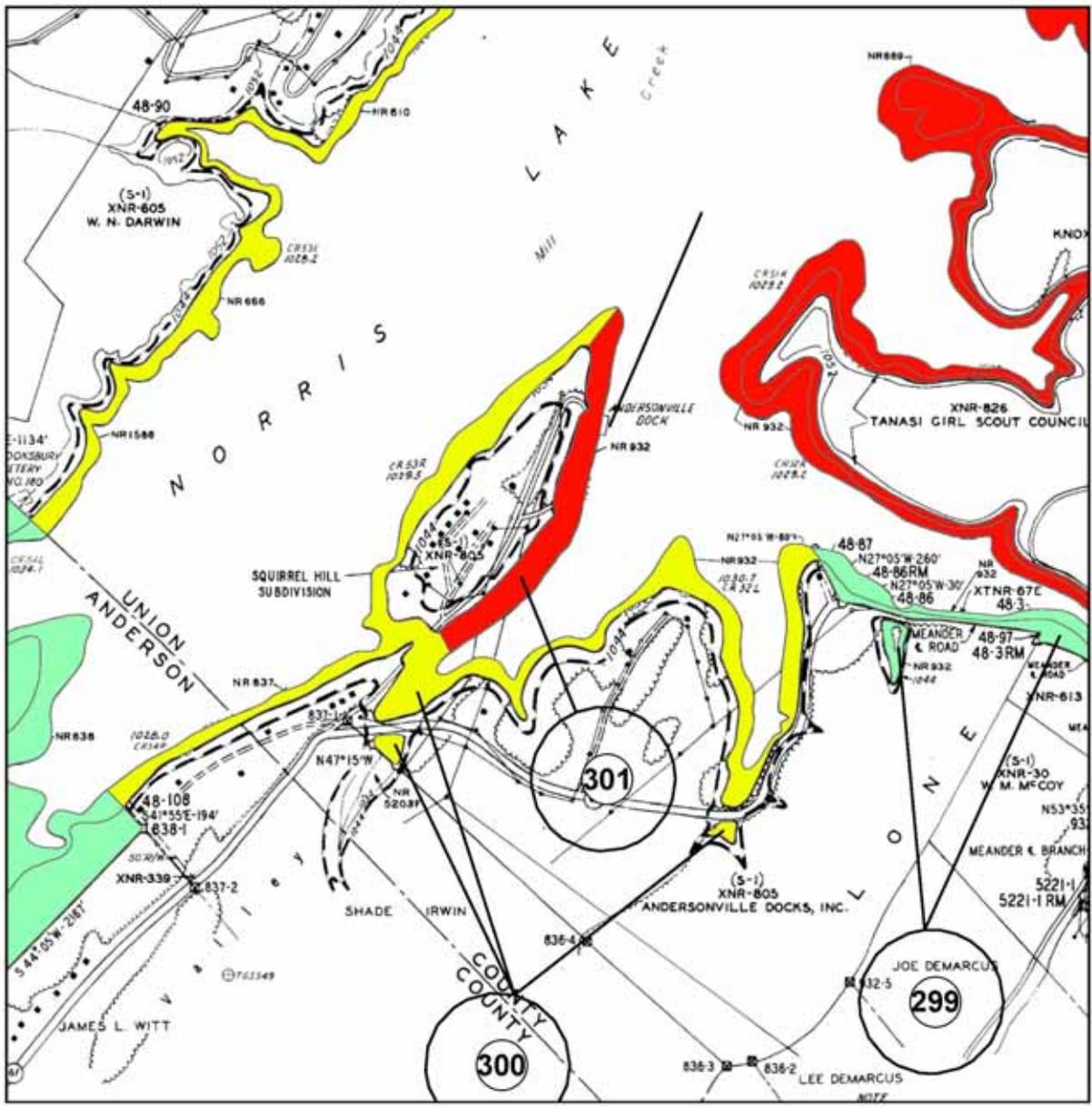


Exhibit Map
 Norris Reservoir
 2001 Land Plan Parcel 301
 Tract No. XNR-805
 Mill Creek mile 3.2R
 Clinch River mile 97.5L



Map Reference:
D-Stage 48



Land and Water
Stewardship



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Figure 14. Norris Reservoir Parcel 301

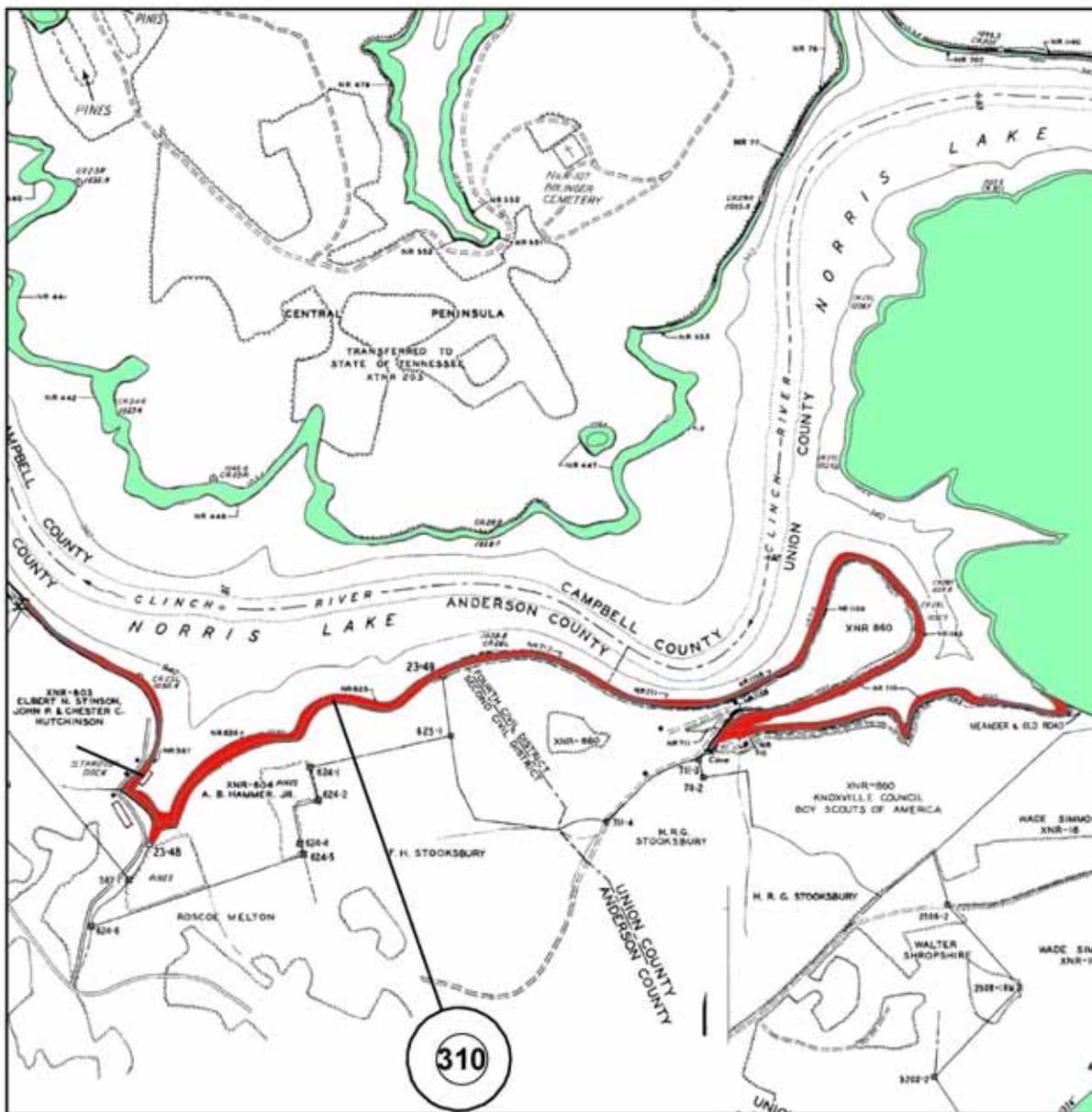


Exhibit Map

Norris Reservoir
 2001 Land Plan Parcel 310
 Tract No. XNR-603, XNR-604, & XNR-860
 Clinch River mile 91.7L



Map Reference:
 D-Stage 23 & 47



Land and Water
 Stewardship



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Figure 15. Norris Reservoir Parcel 310

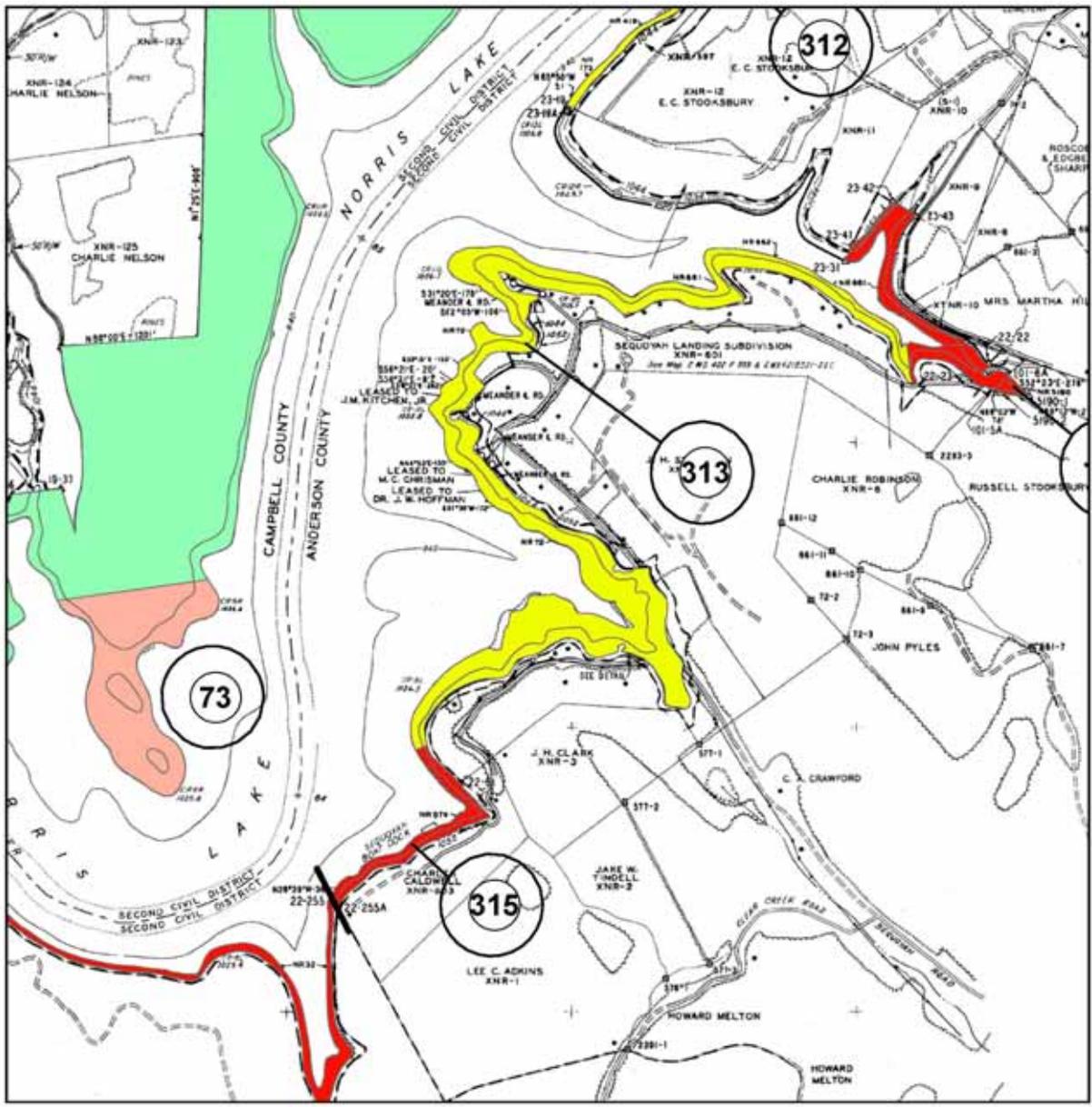


Exhibit Map

Norris Reservoir
 2001 Land Plan Parcel 315
 Tract No. XNR-803
 Clinch River mile 84.0L



Map Reference:
 D-Stage 22



Land and Water
 Stewardship



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Figure 16. Norris Reservoir Parcel 315

Maps of Parcels – Gunterville Reservoir

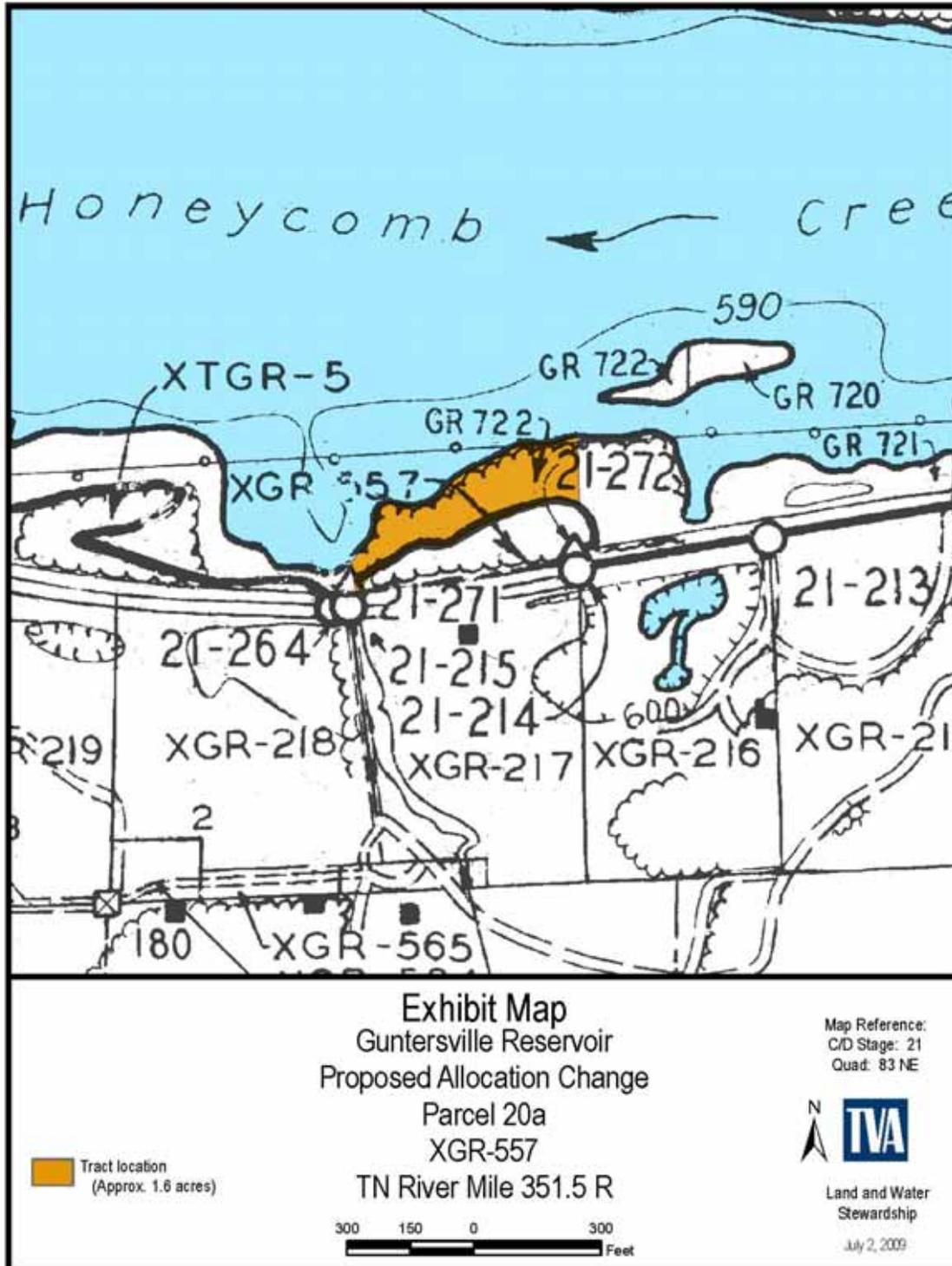


Figure 17. Gunterville Reservoir Parcel 20a

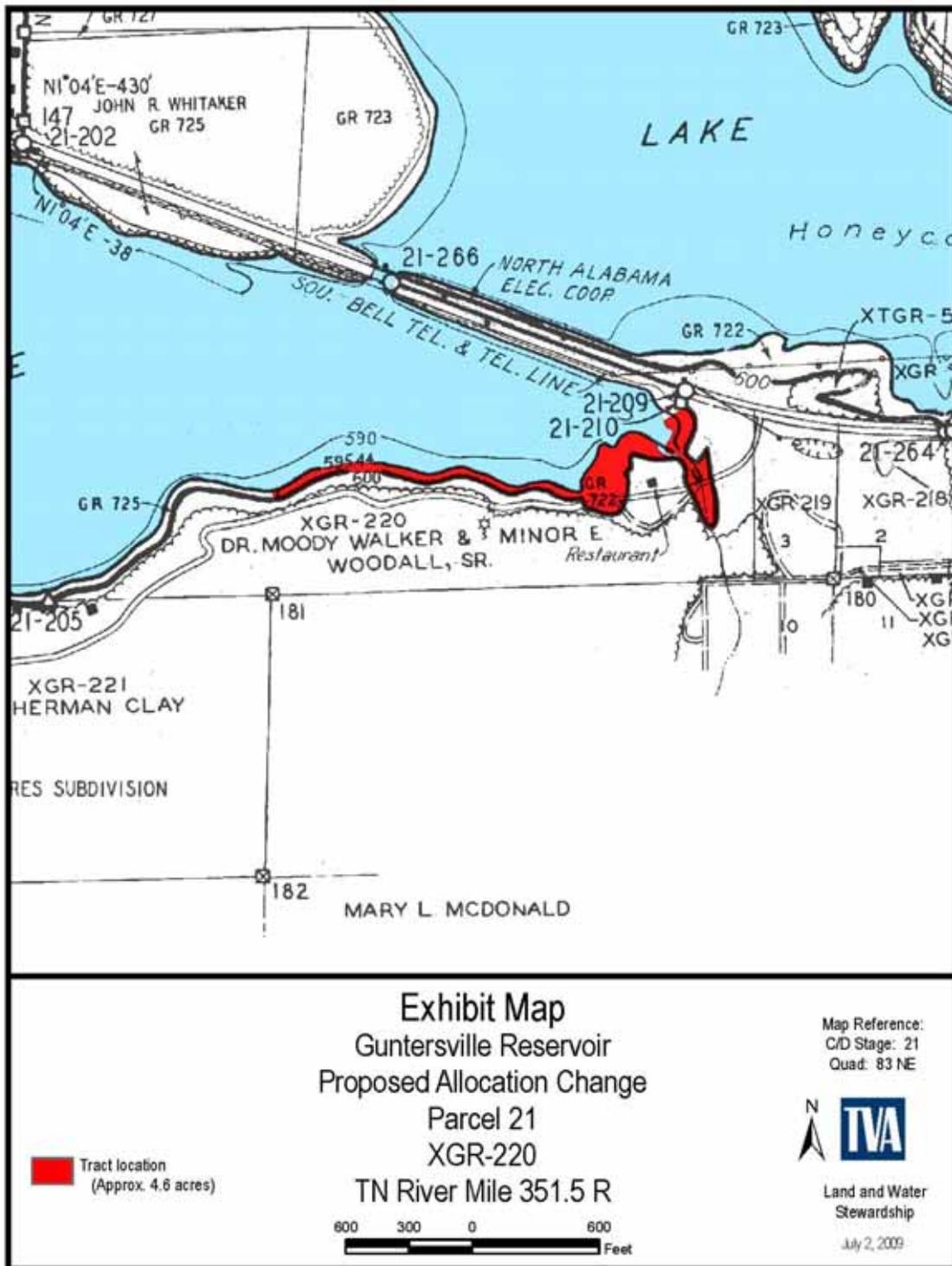


Figure 18. Guntersville Reservoir Parcel 21

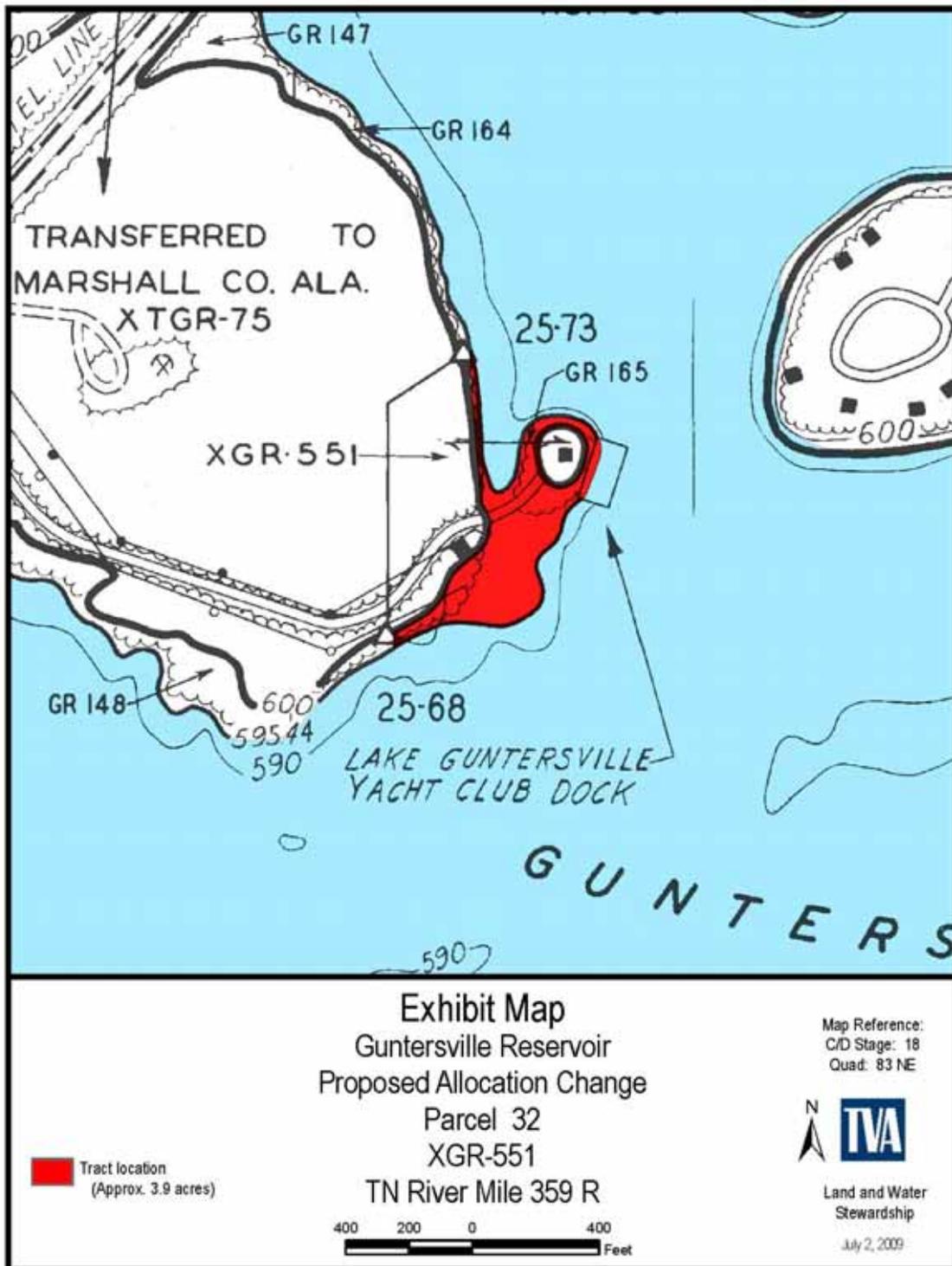


Figure 20. Guntersville Reservoir Parcel 32

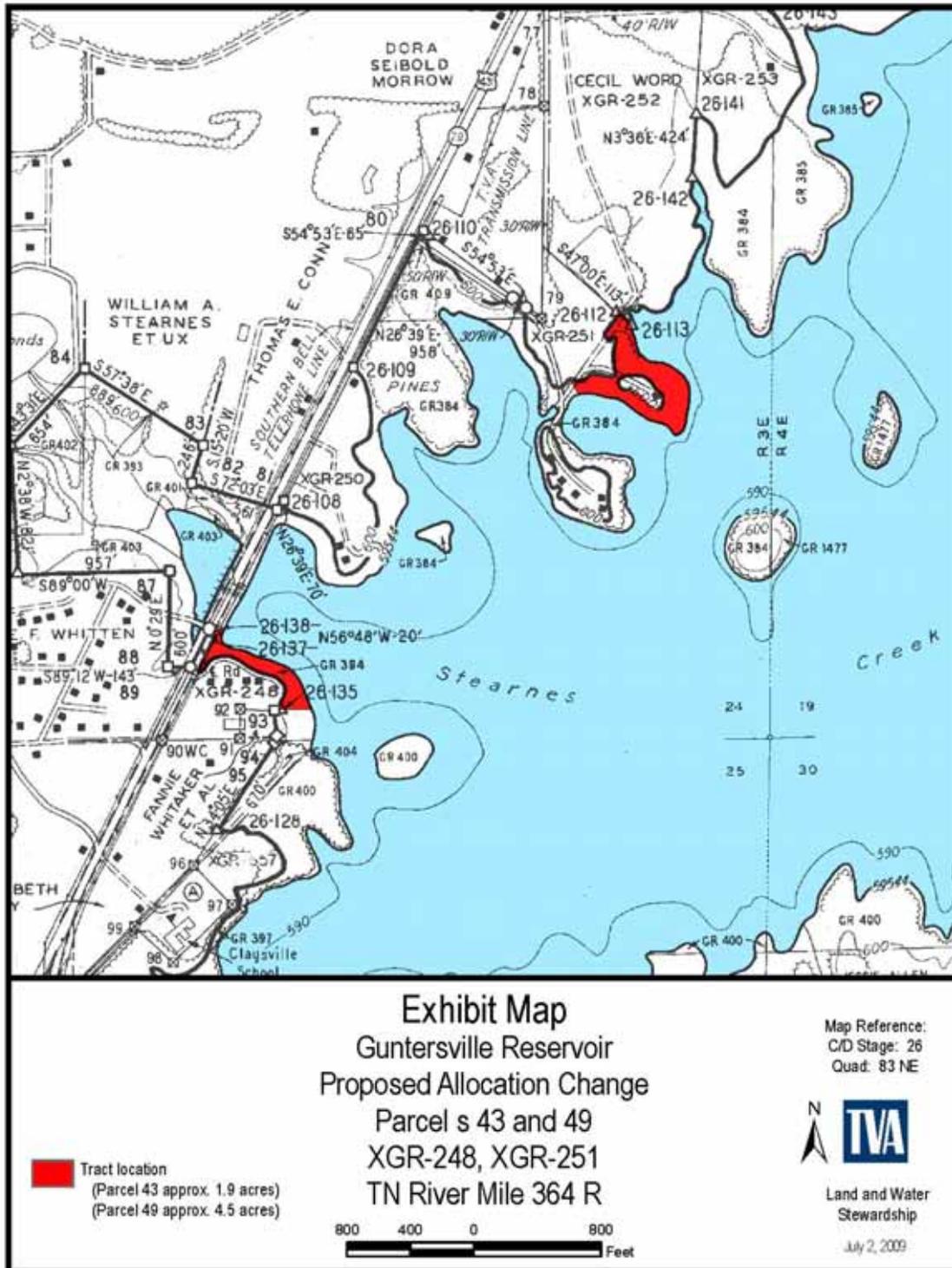
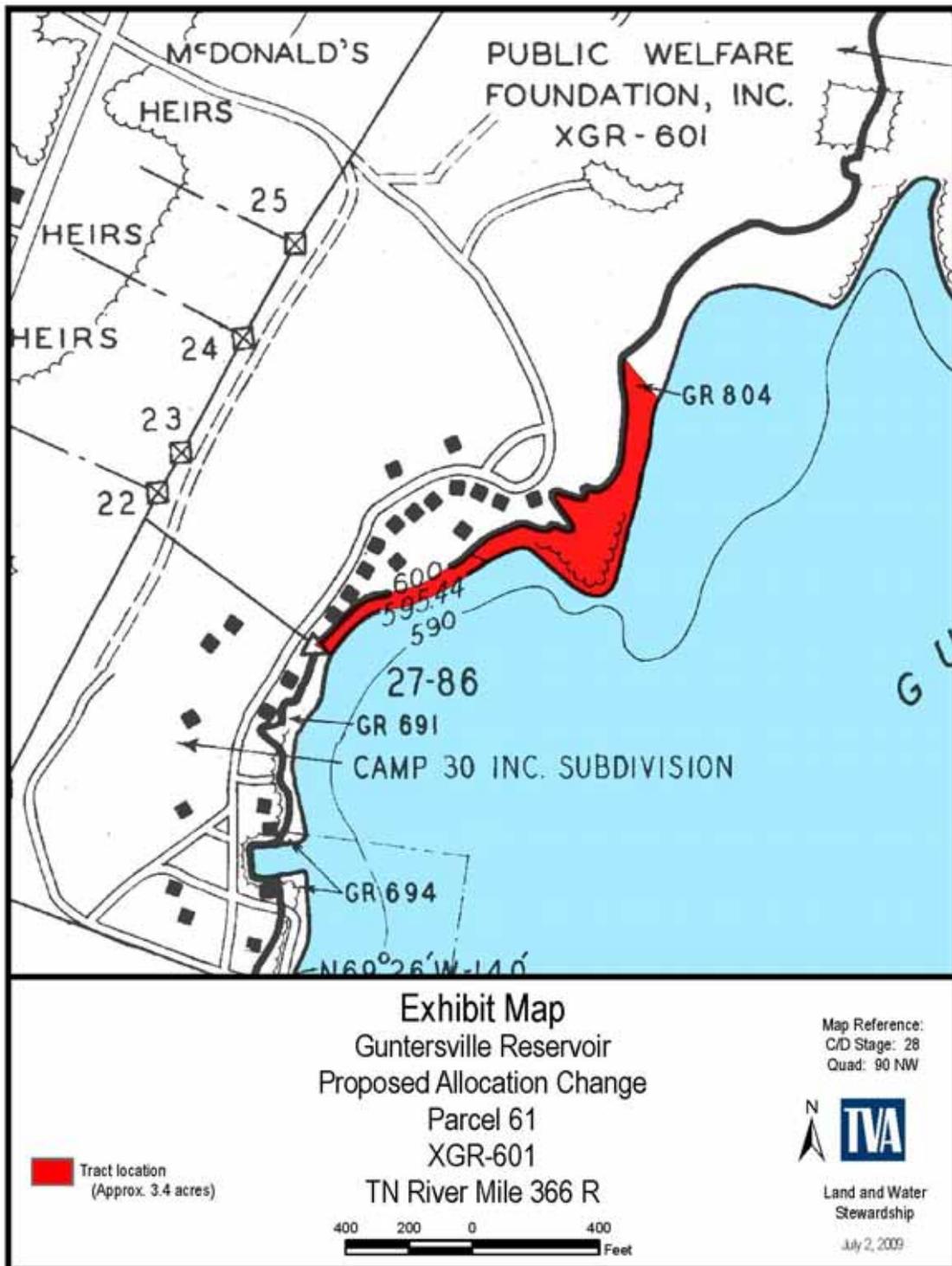
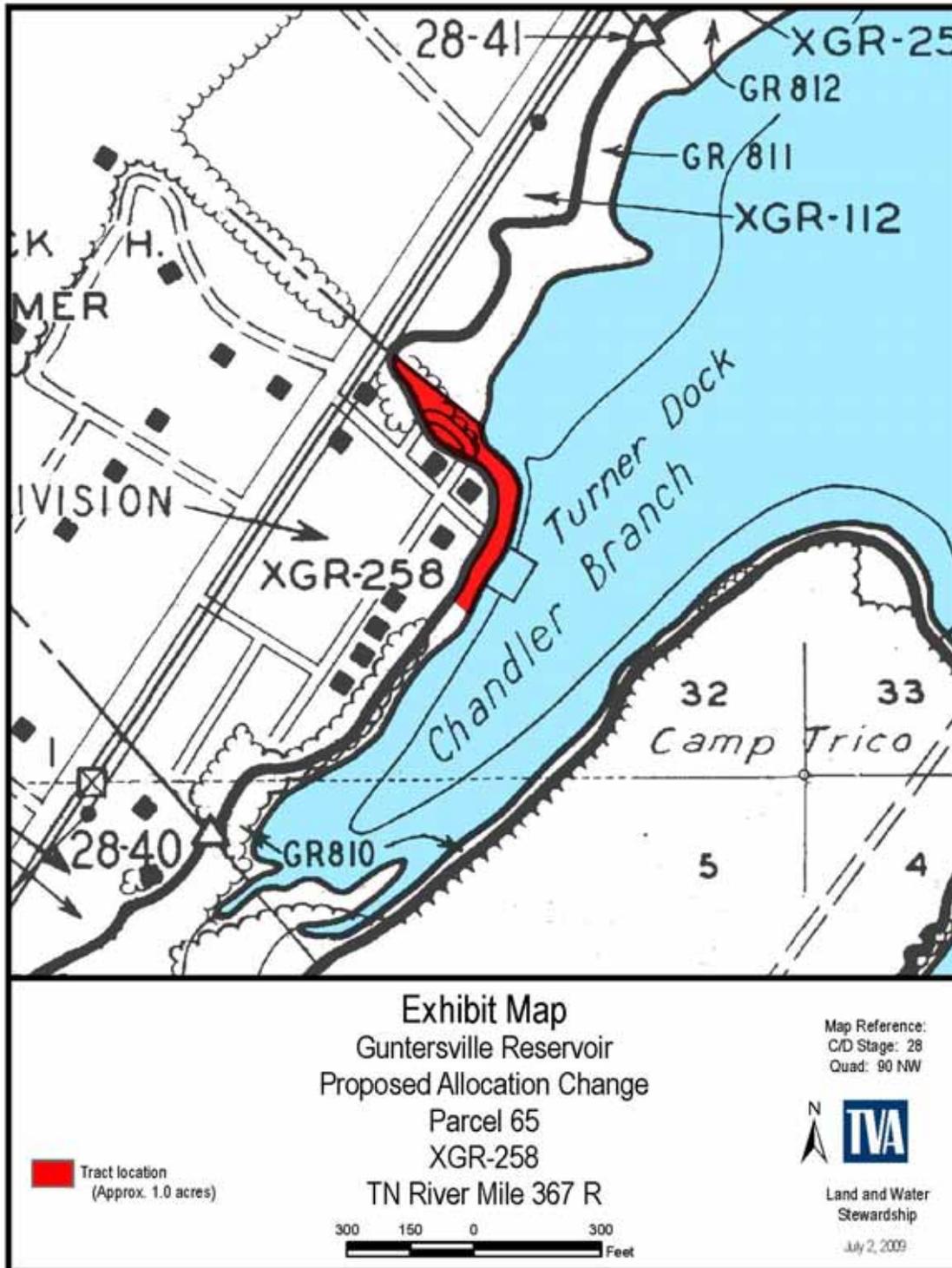


Figure 21. Guntersville Reservoir Parcels 43 and 49



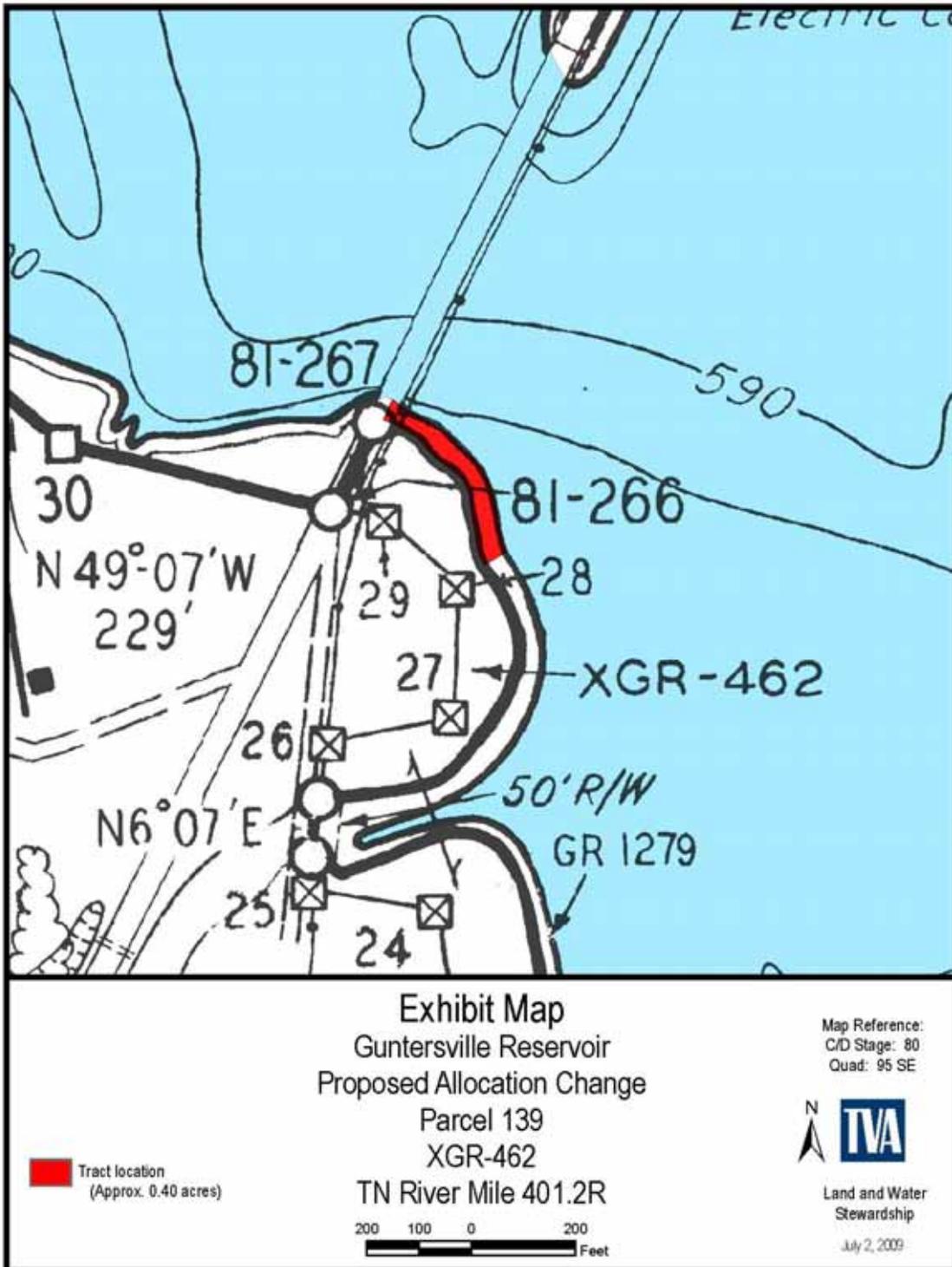
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Figure 22. Guntersville Reservoir Parcel 61



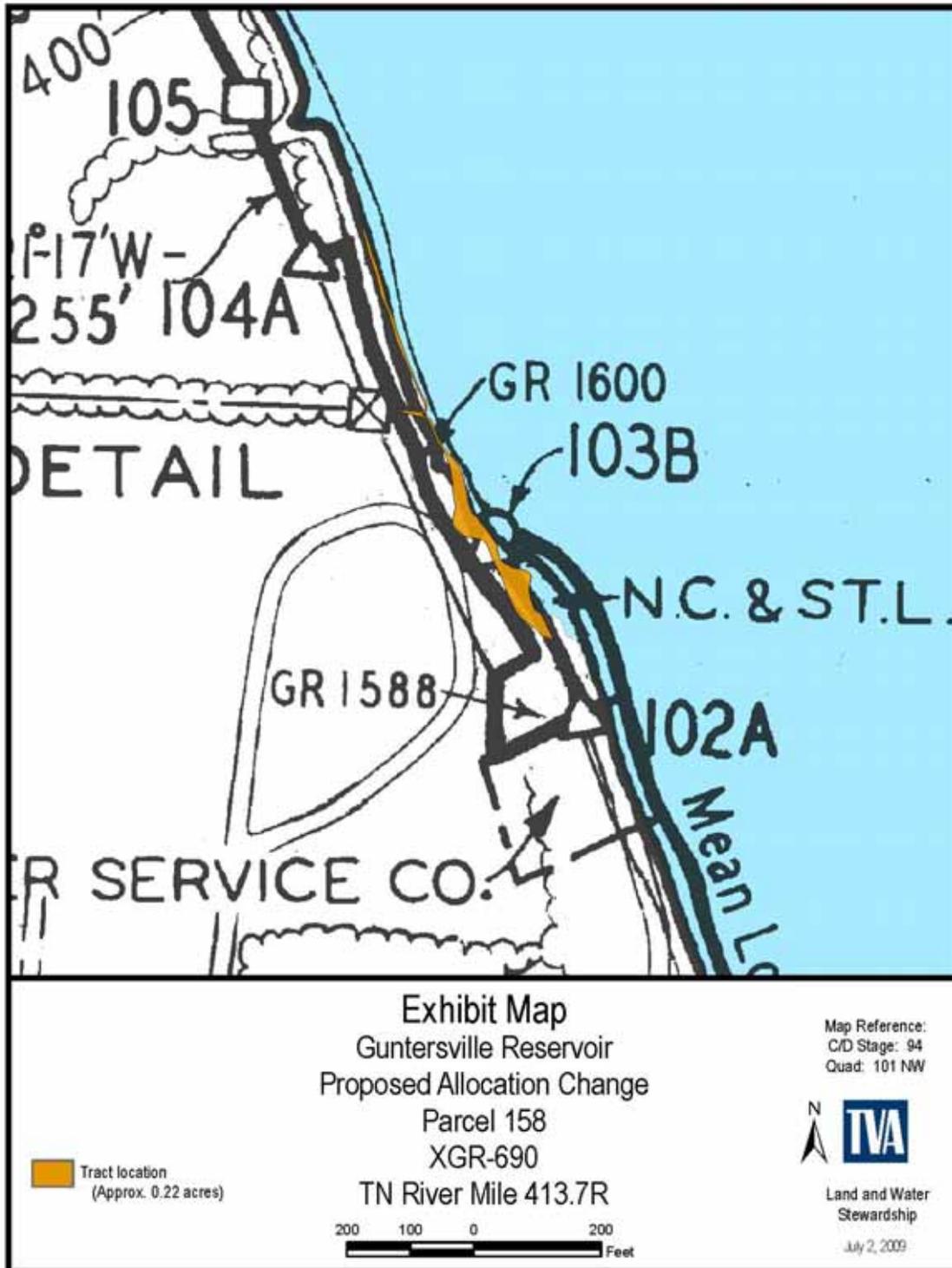
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Figure 23. Guntersville Reservoir Parcel 65



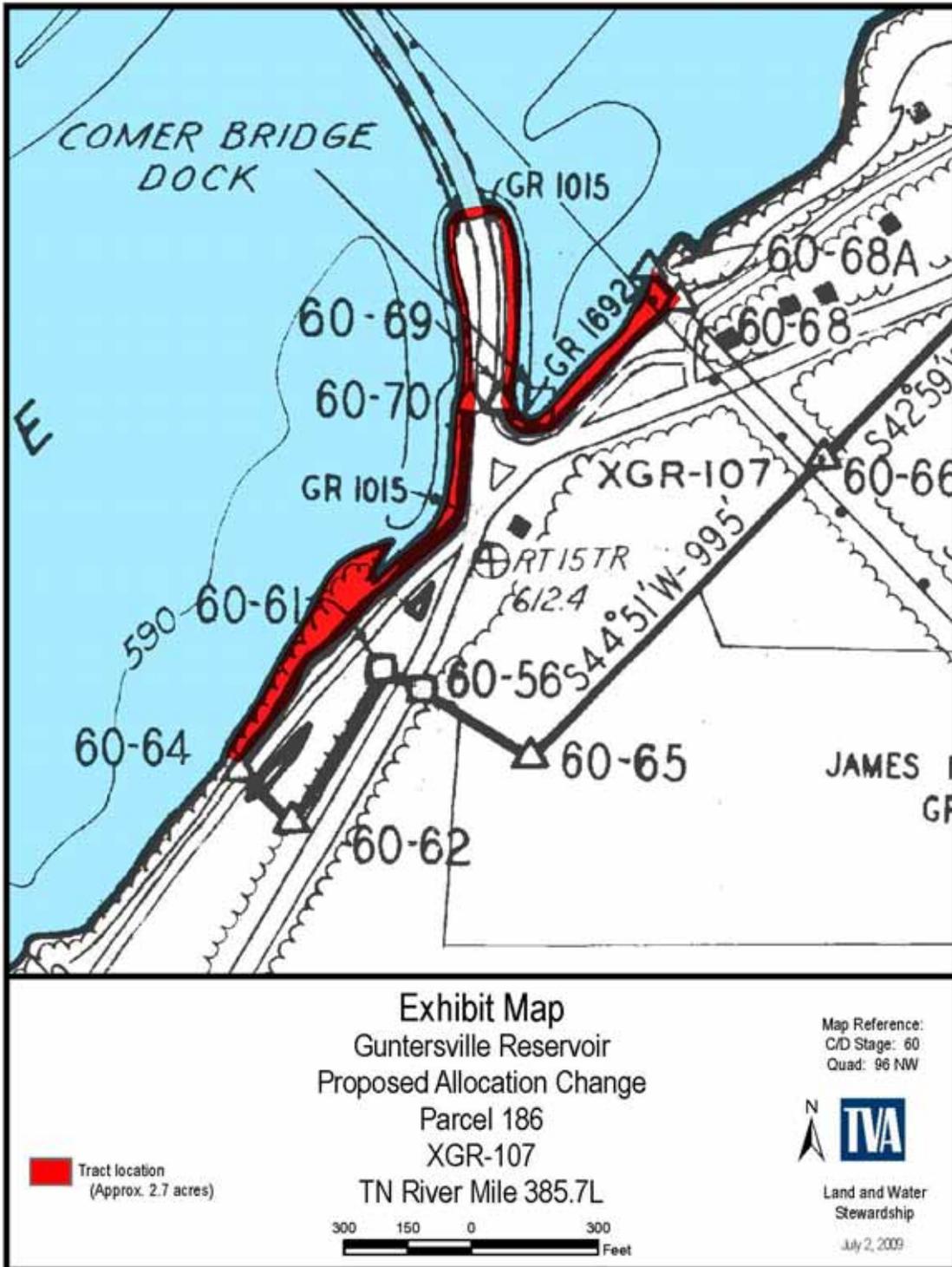
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Figure 26. Guntersville Reservoir Parcel 139



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Figure 27. Guntersville Reservoir Parcel 158



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Figure 28. Guntersville Reservoir Parcel 186

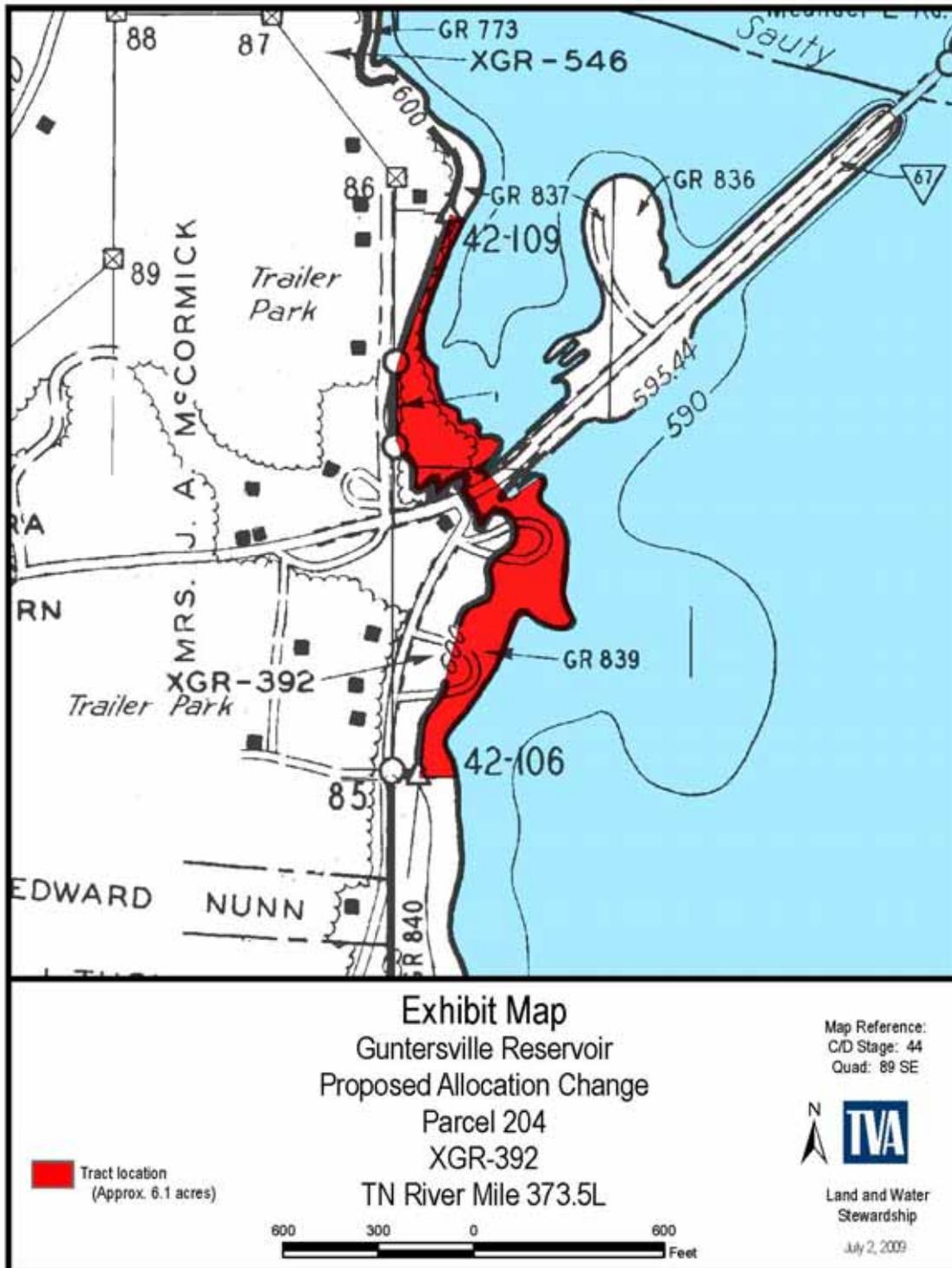
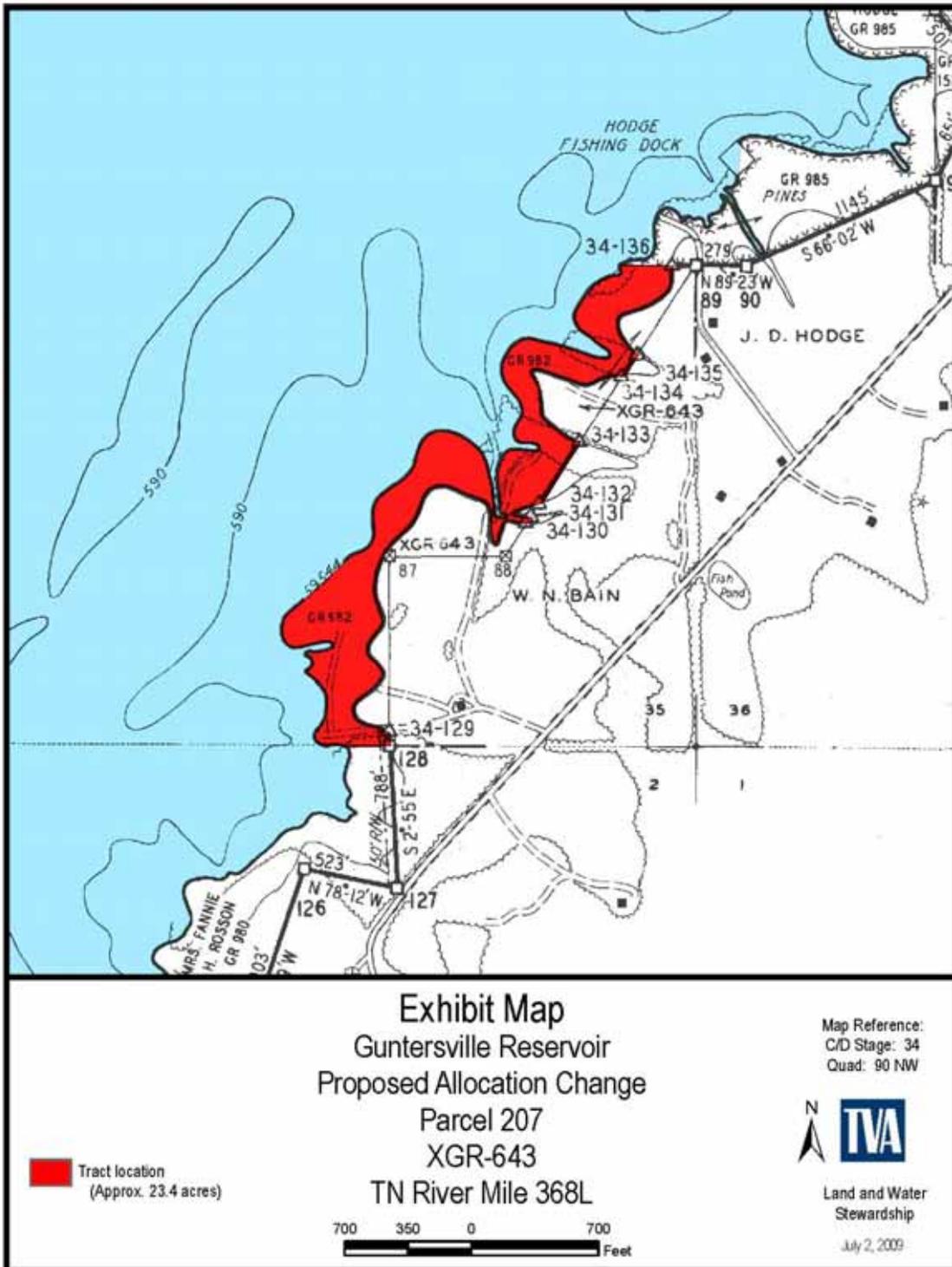
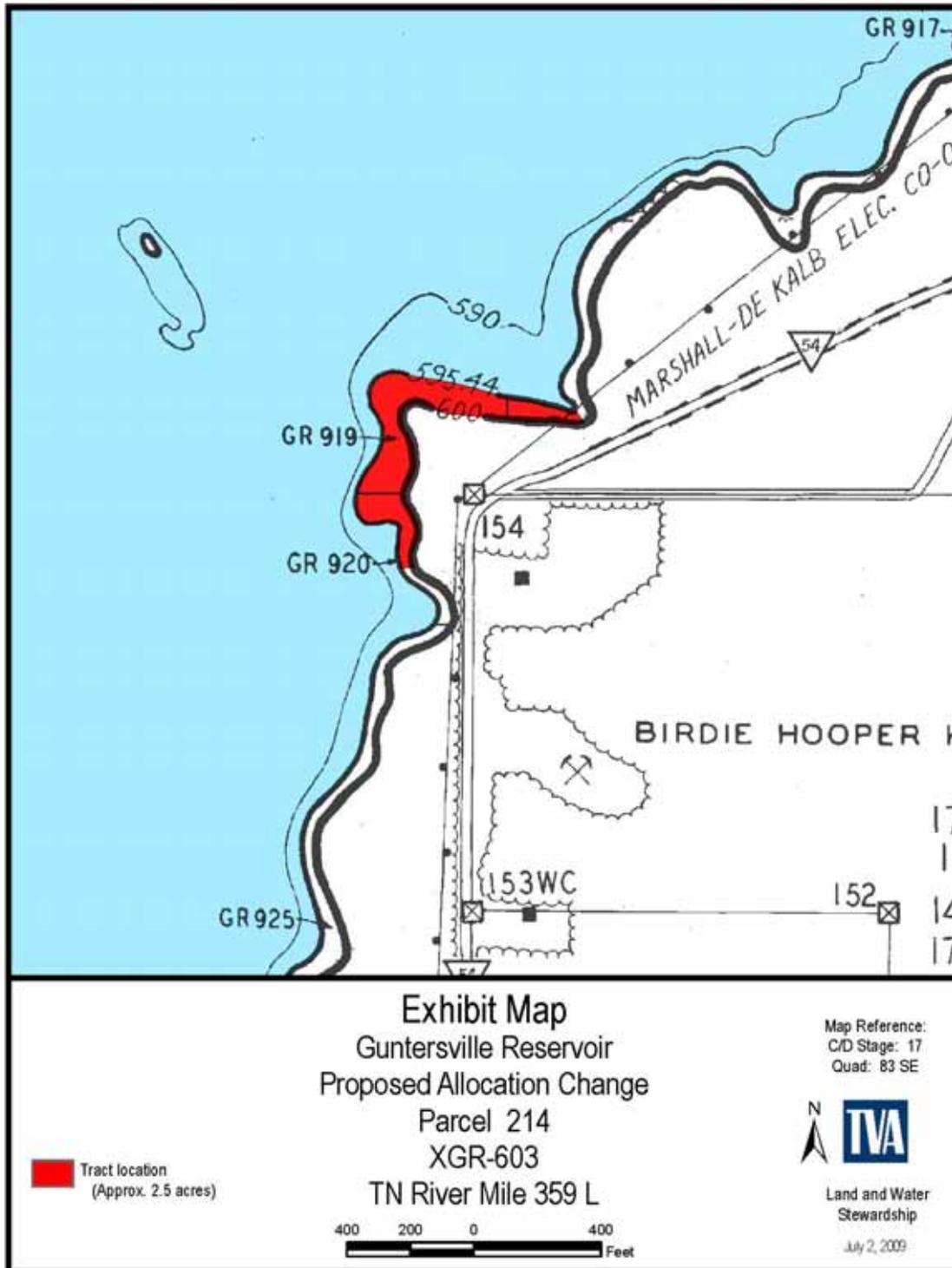


Figure 29. Guntersville Reservoir Parcel 204



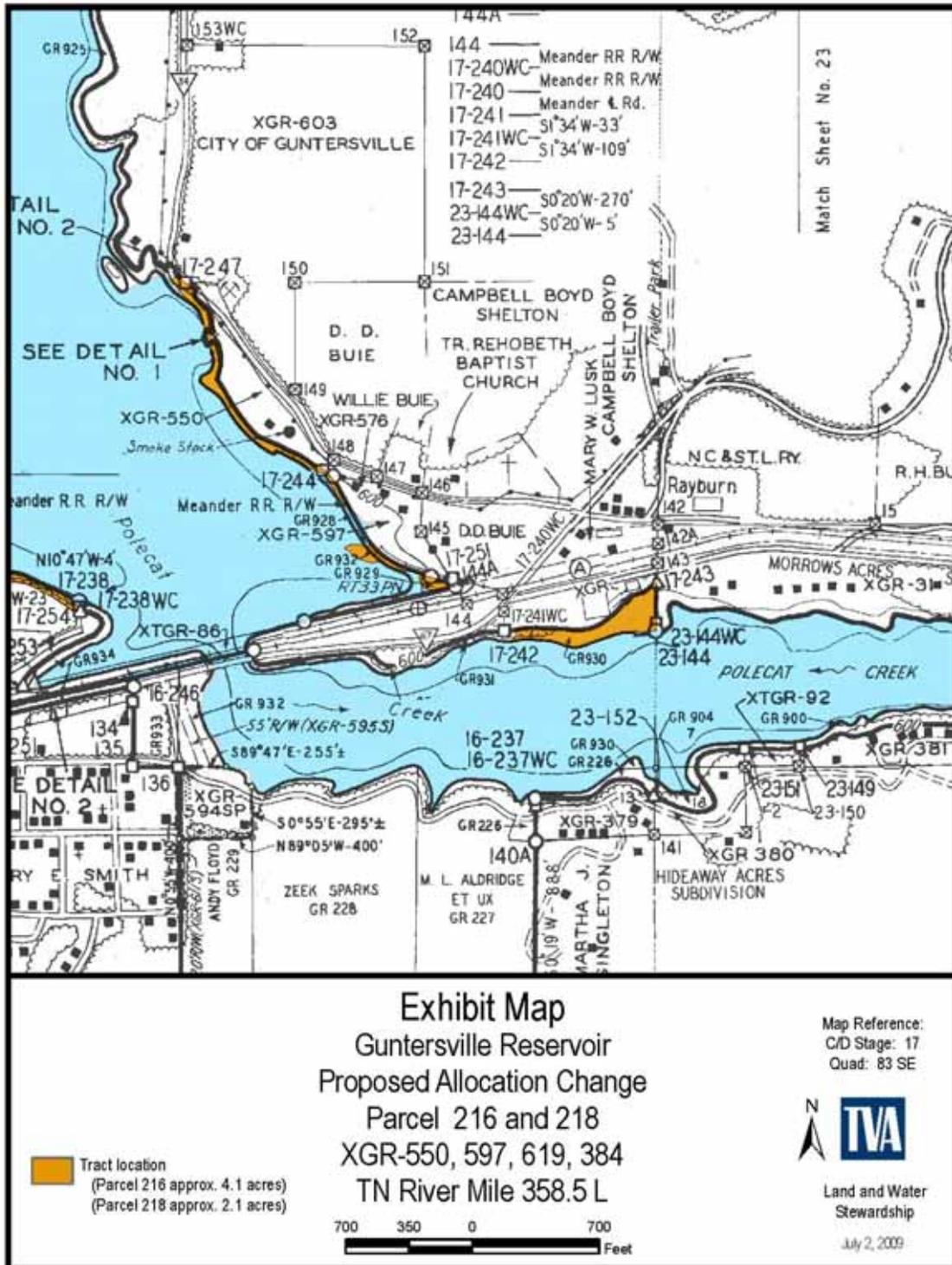
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Figure 30. Guntersville Reservoir Parcel 207



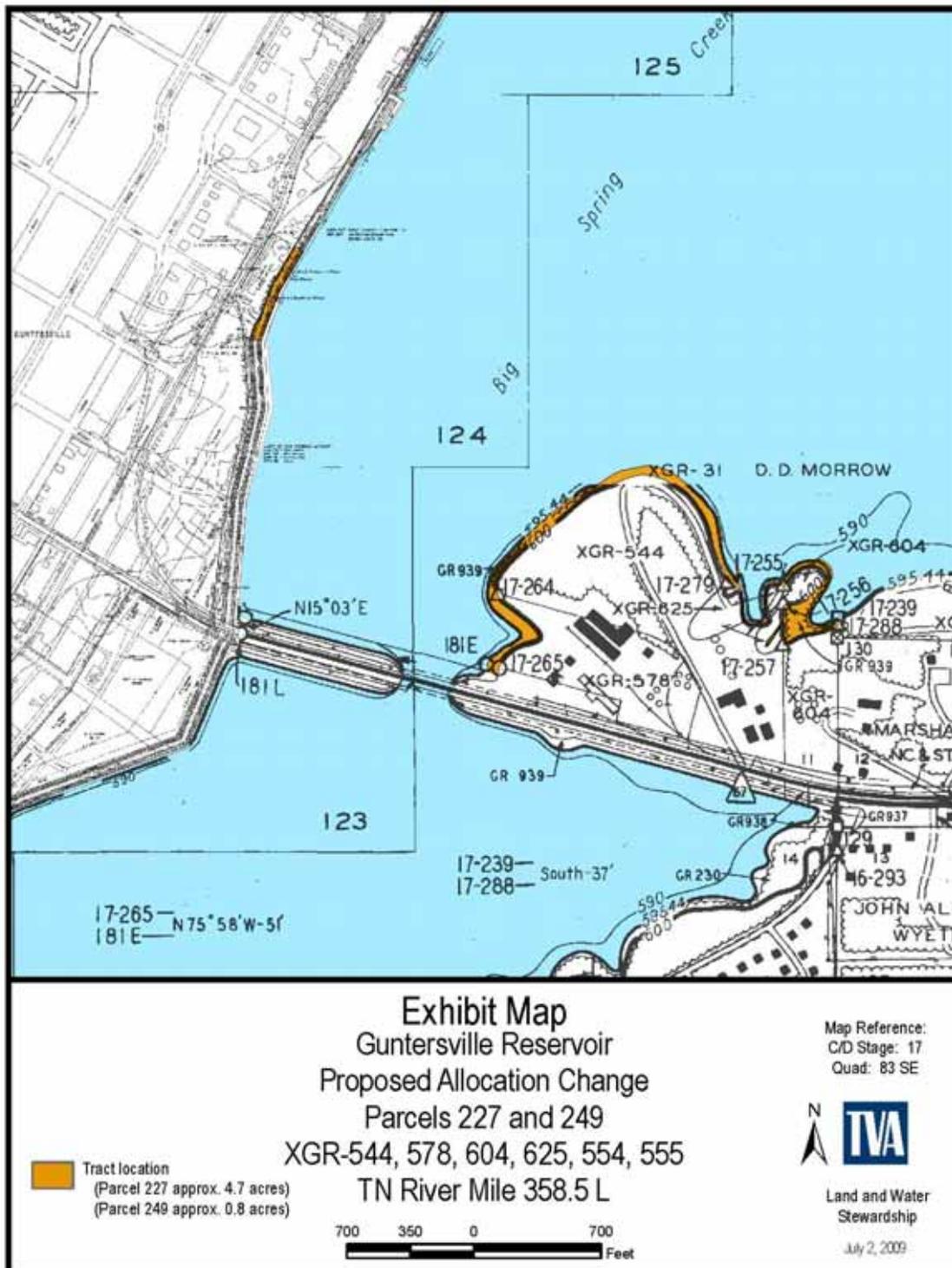
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Figure 31. Guntersville Reservoir Parcel 214



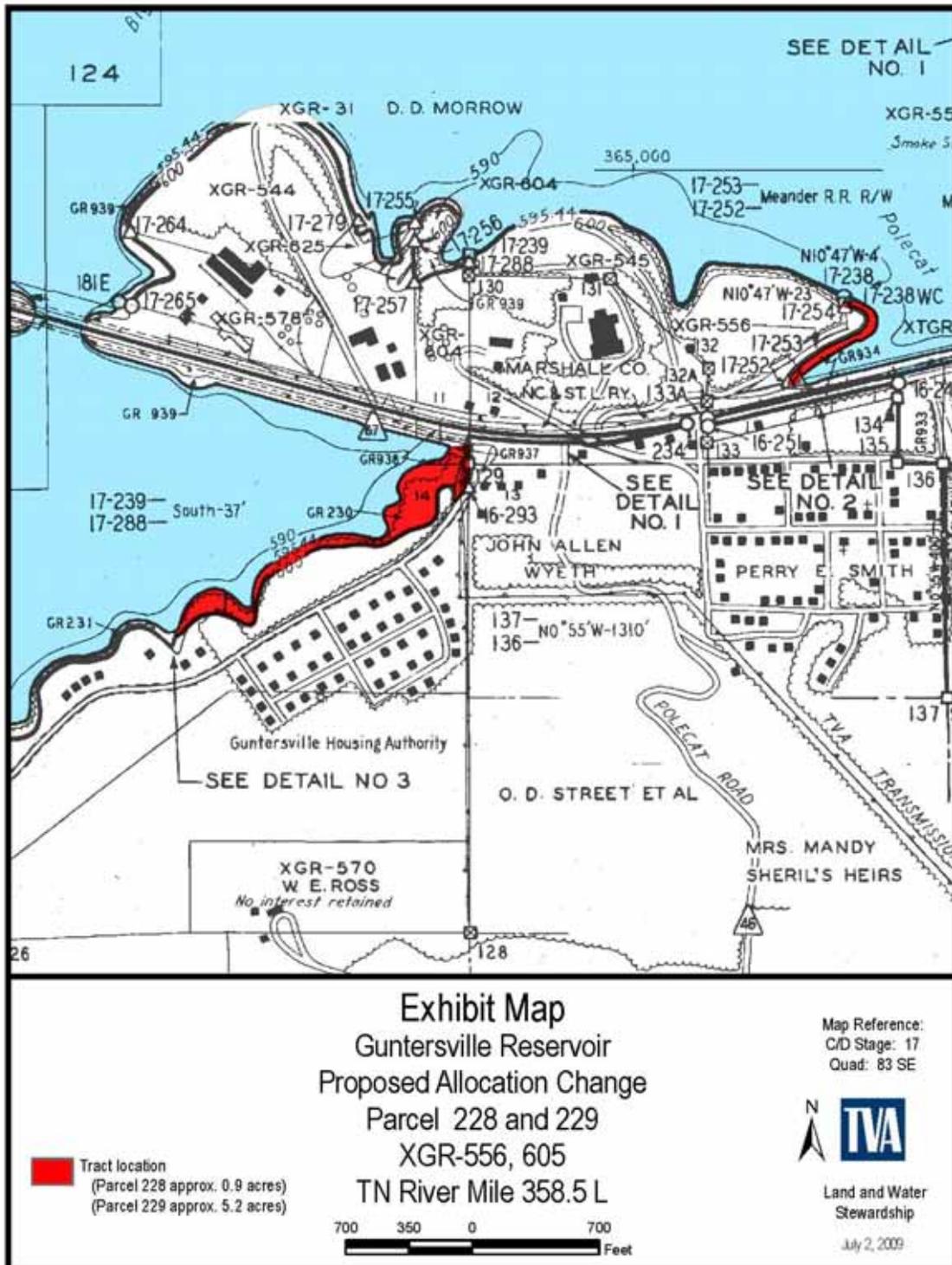
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Figure 32. Guntersville Reservoir Parcels 216 and 218



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Figure 33. Guntersville Reservoir Parcels 227 and 249



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Figure 34. Guntersville Reservoir Parcels 228 and 229

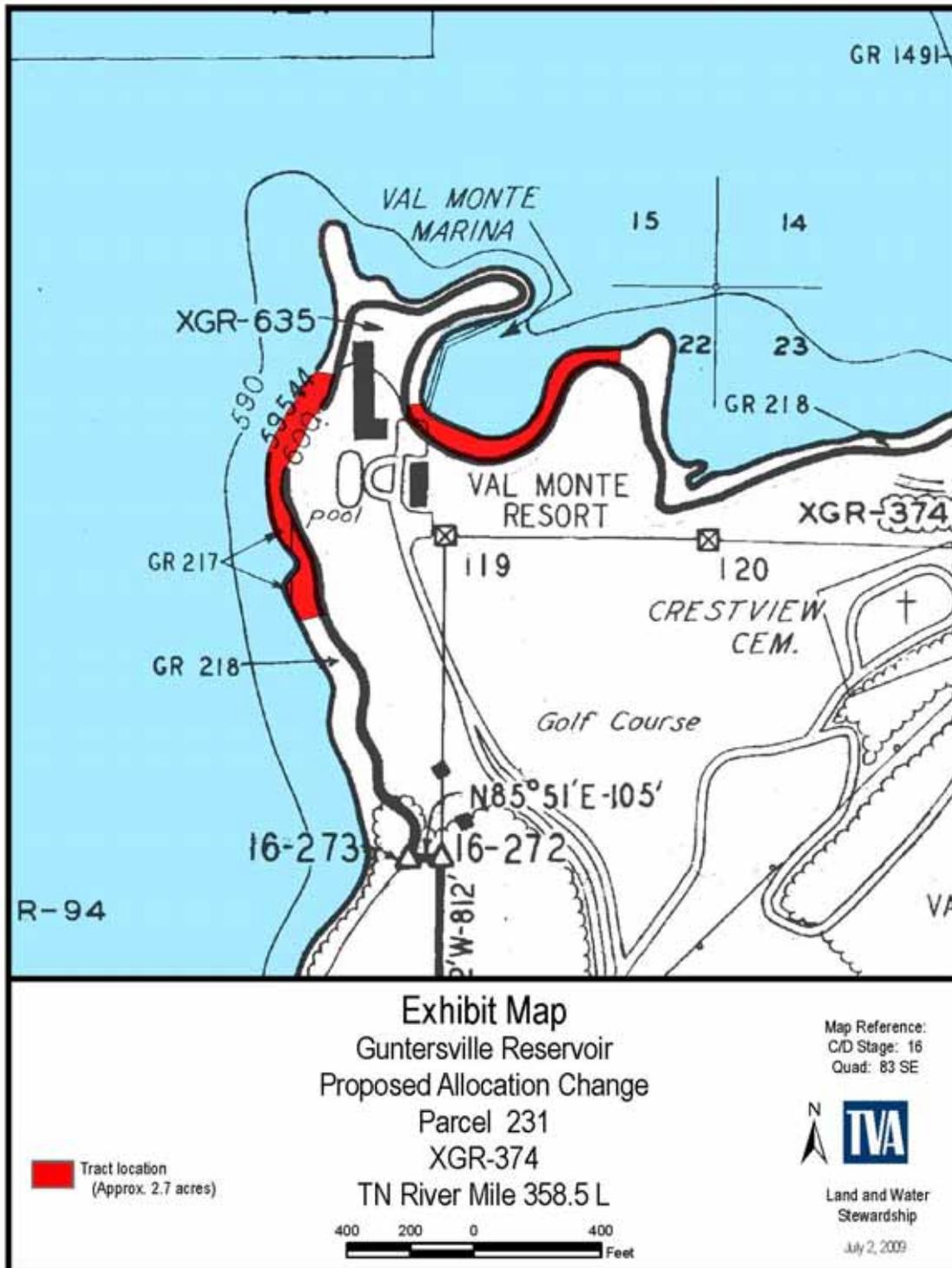


Figure 35. Guntersville Reservoir Parcel 231

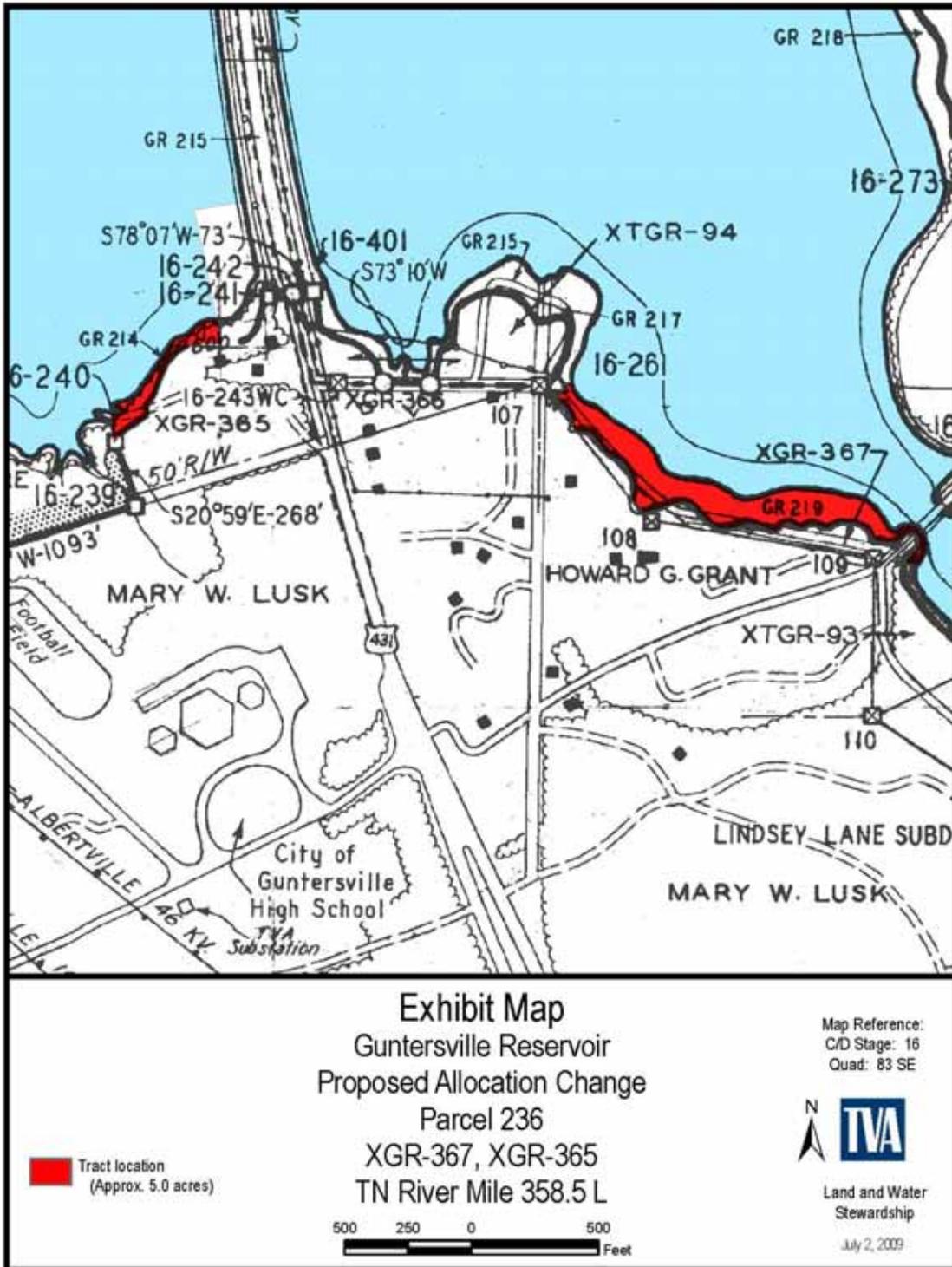
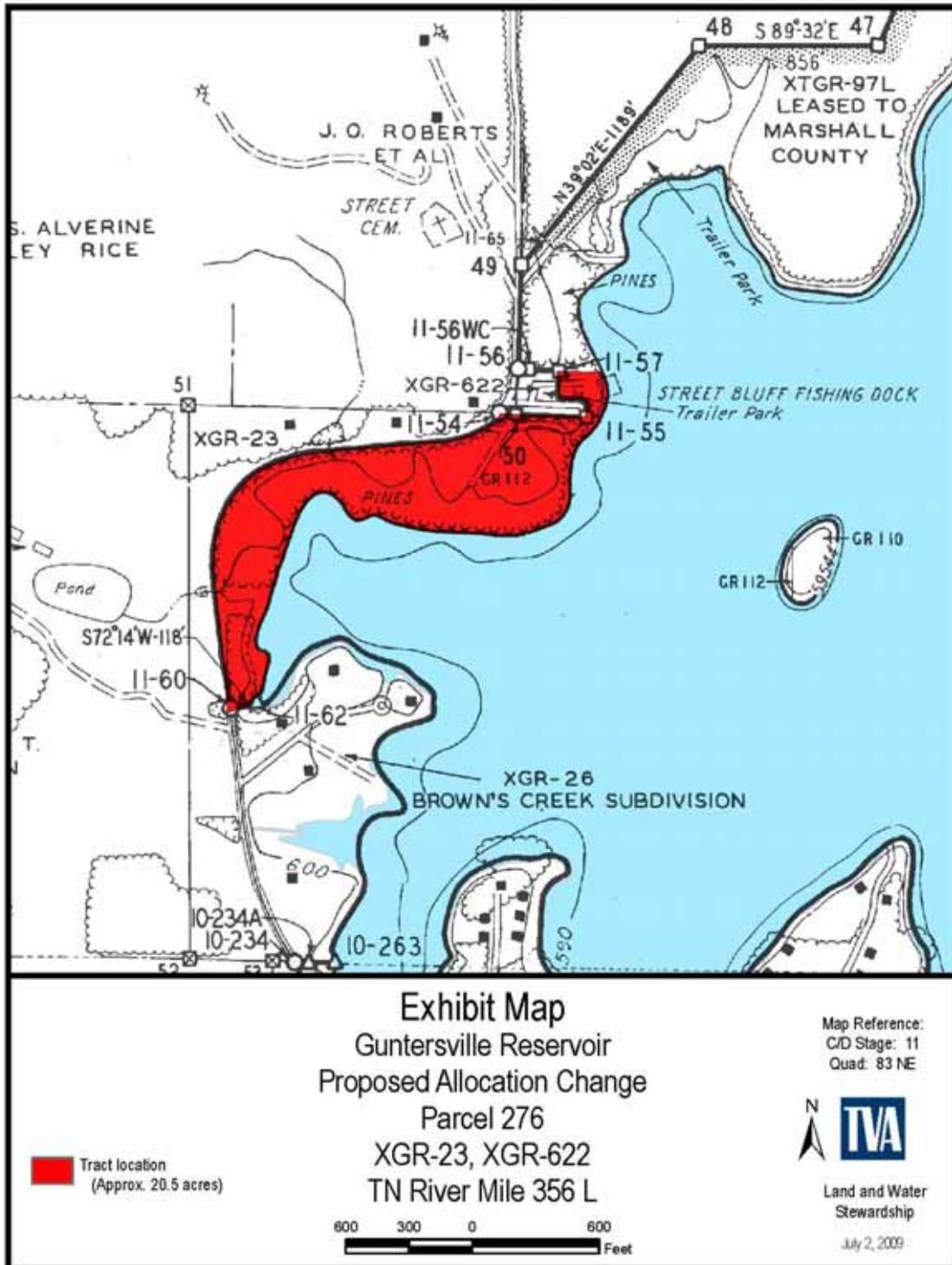


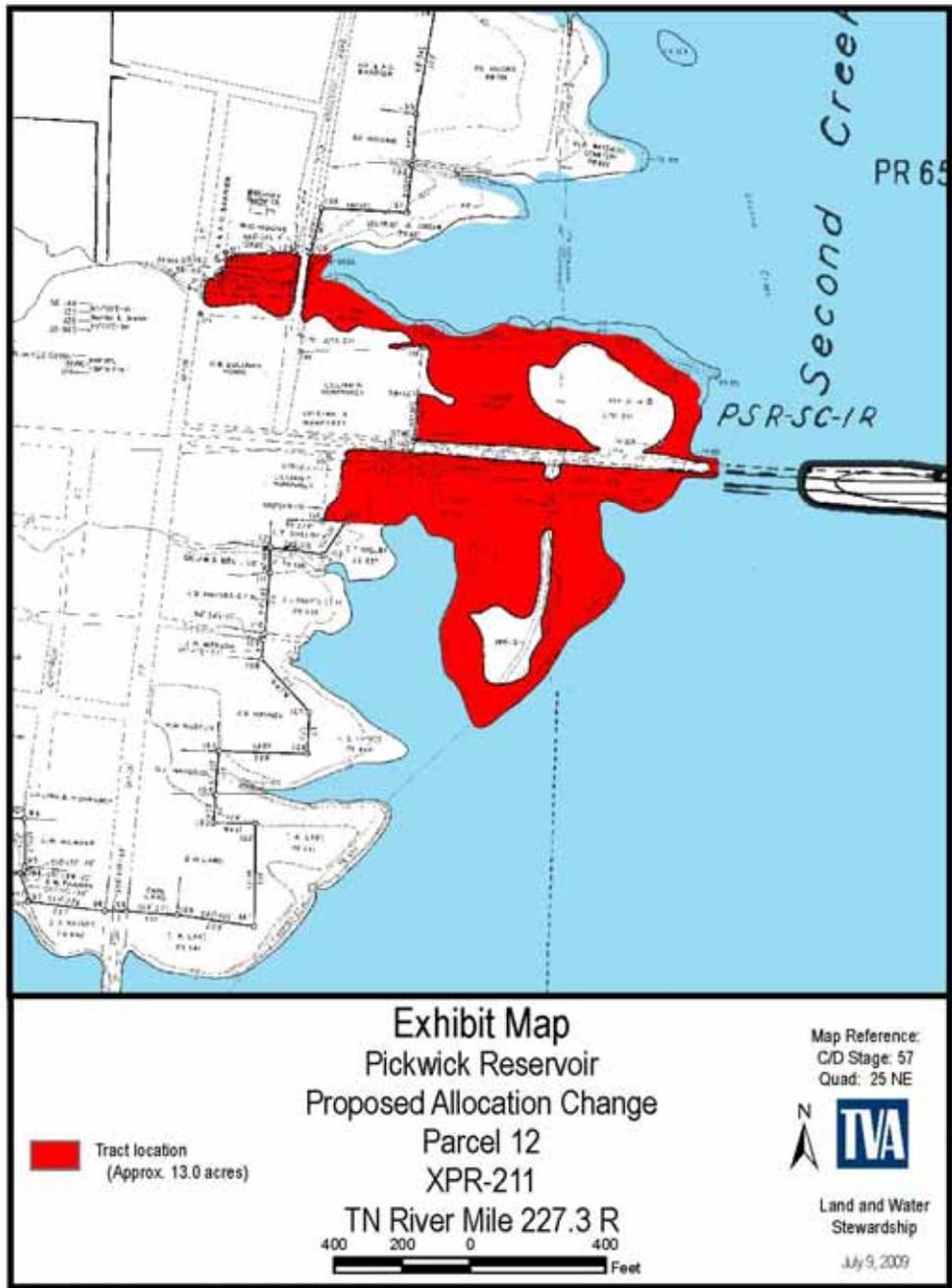
Figure 36. Guntersville Reservoir Parcel 236



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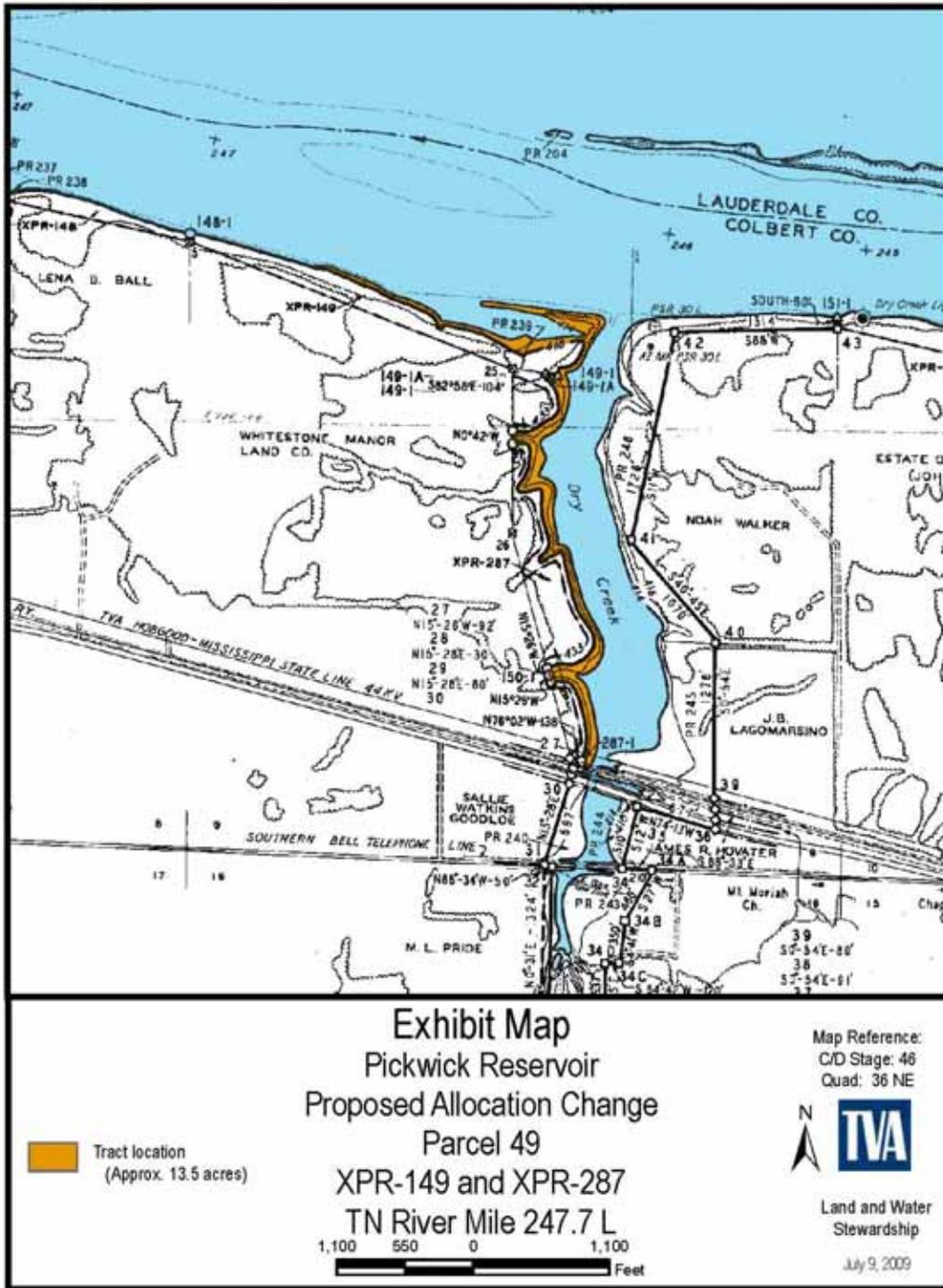
Figure 38. Guntersville Reservoir Parcel 276

Maps of Parcels – Pickwick Reservoir



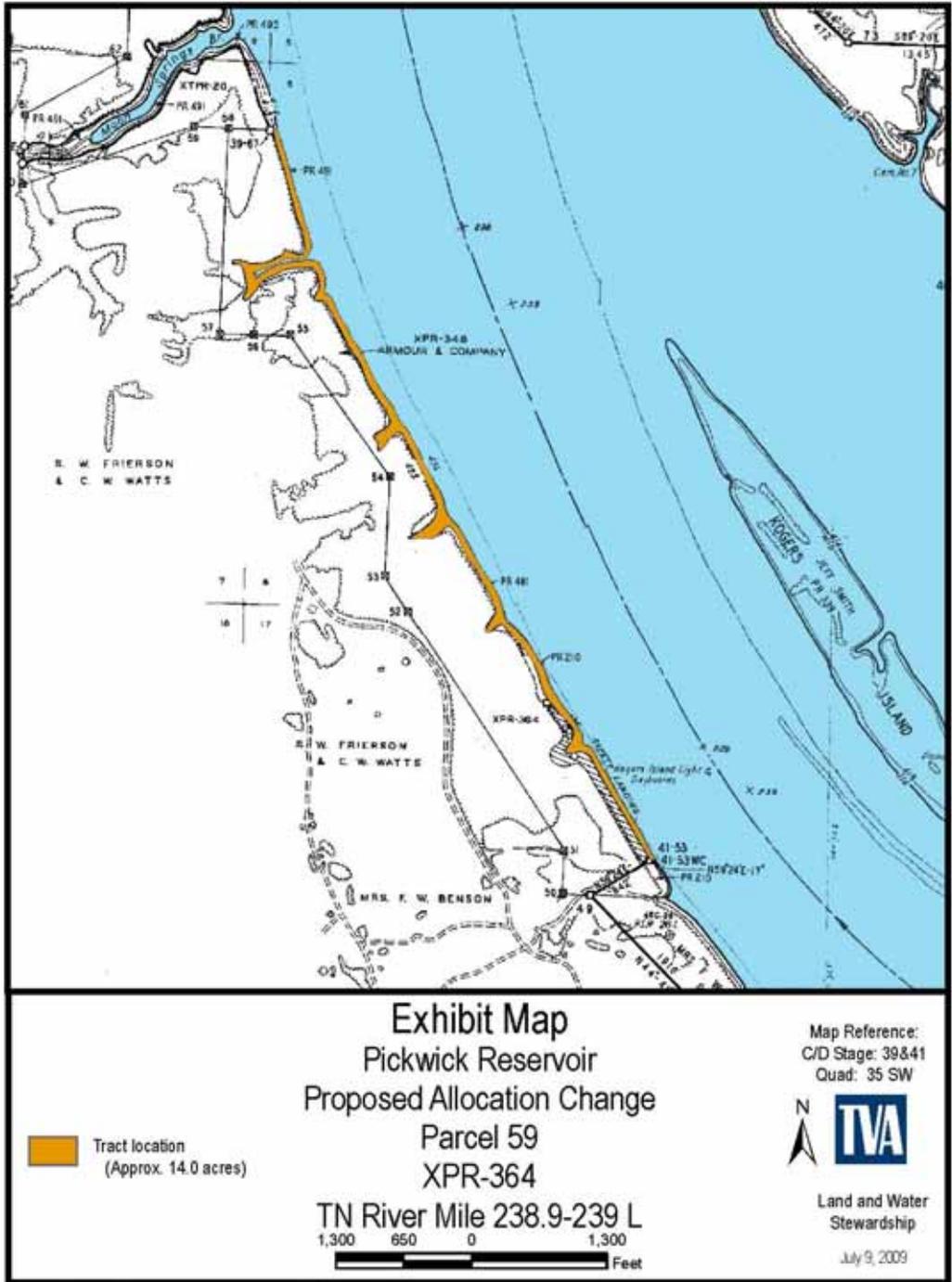
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Figure 39. Pickwick Reservoir Parcel 12



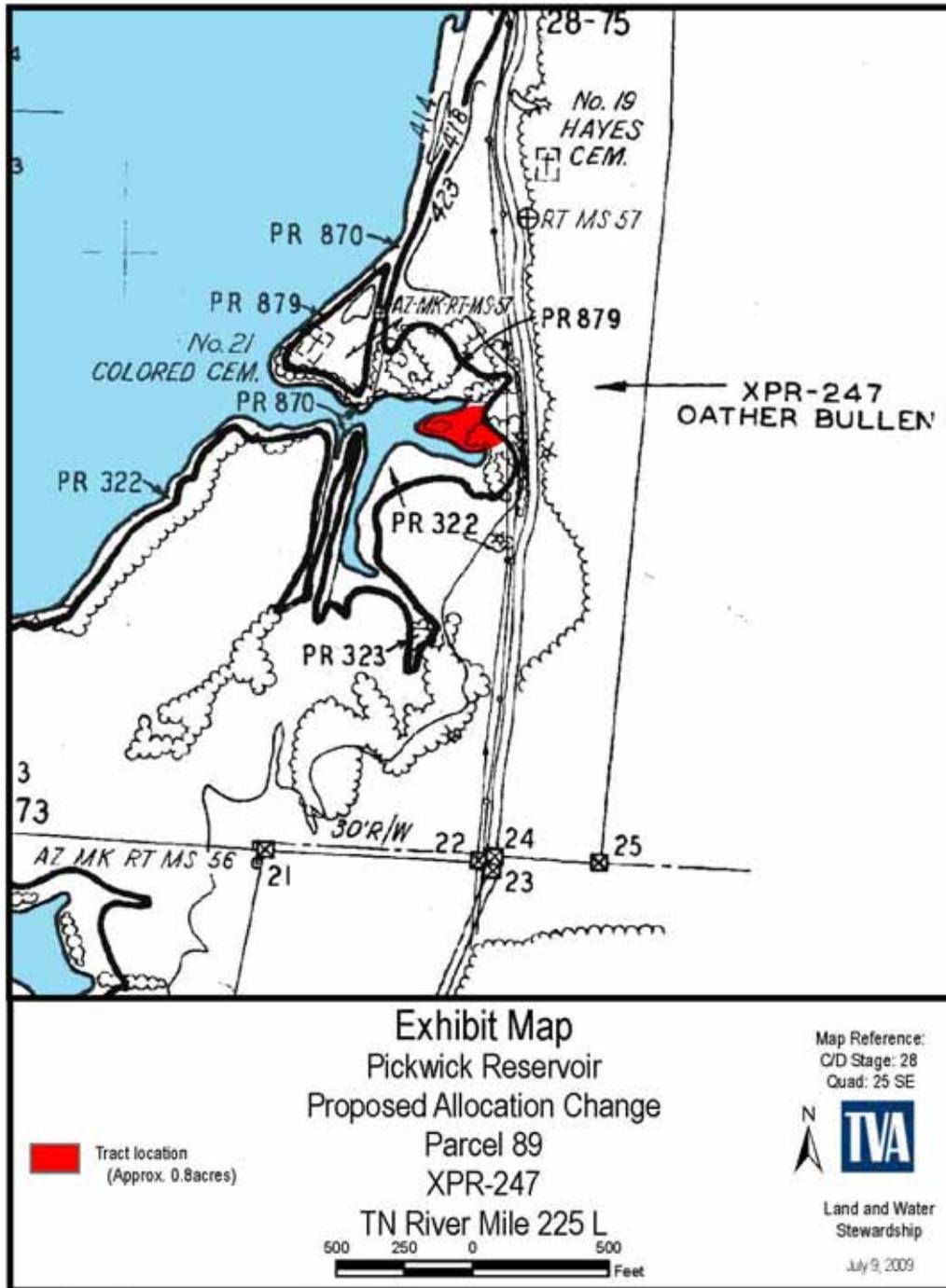
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Figure 40. Pickwick Reservoir Parcel 49



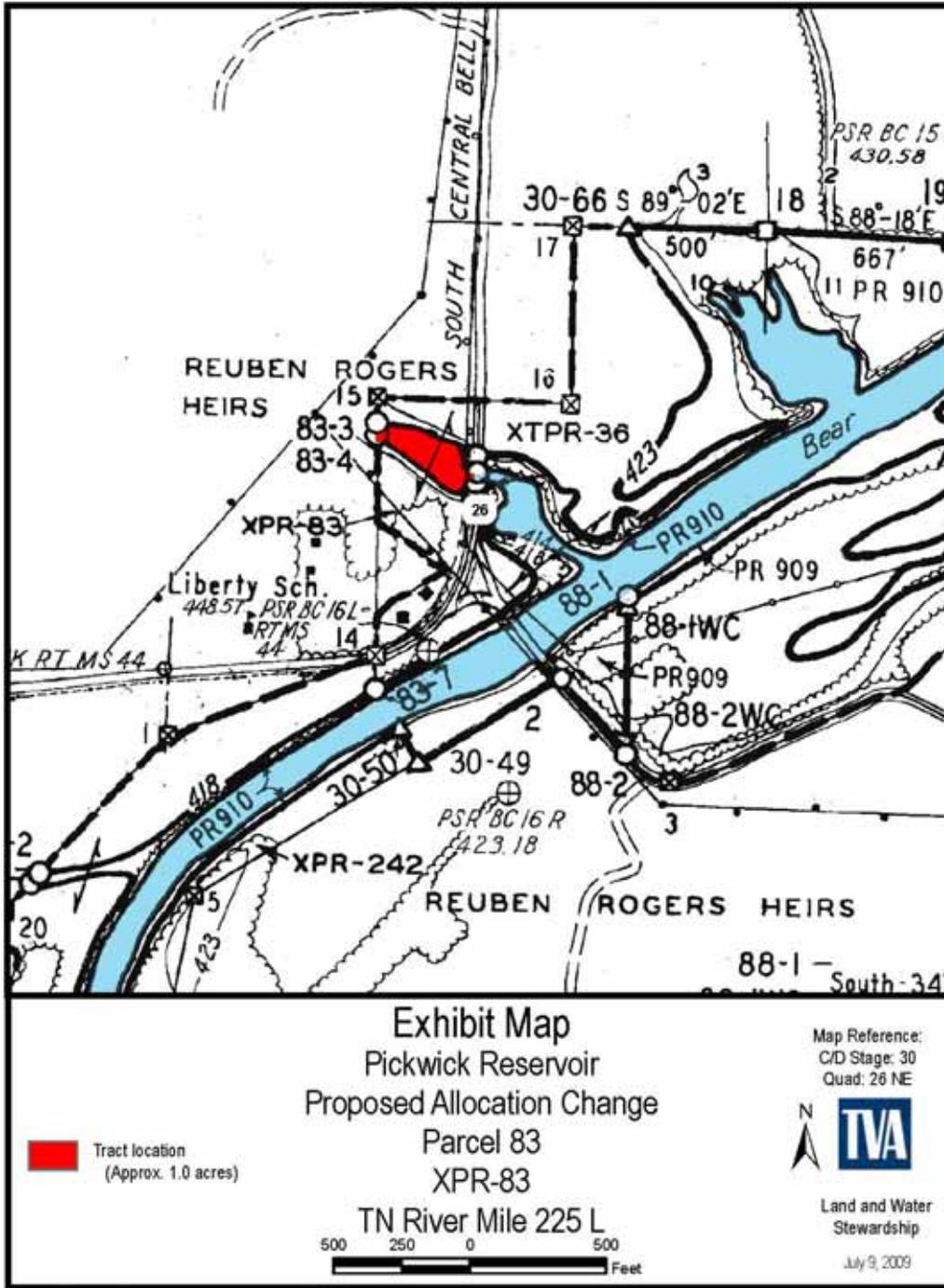
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Figure 41. Pickwick Reservoir Parcel 59



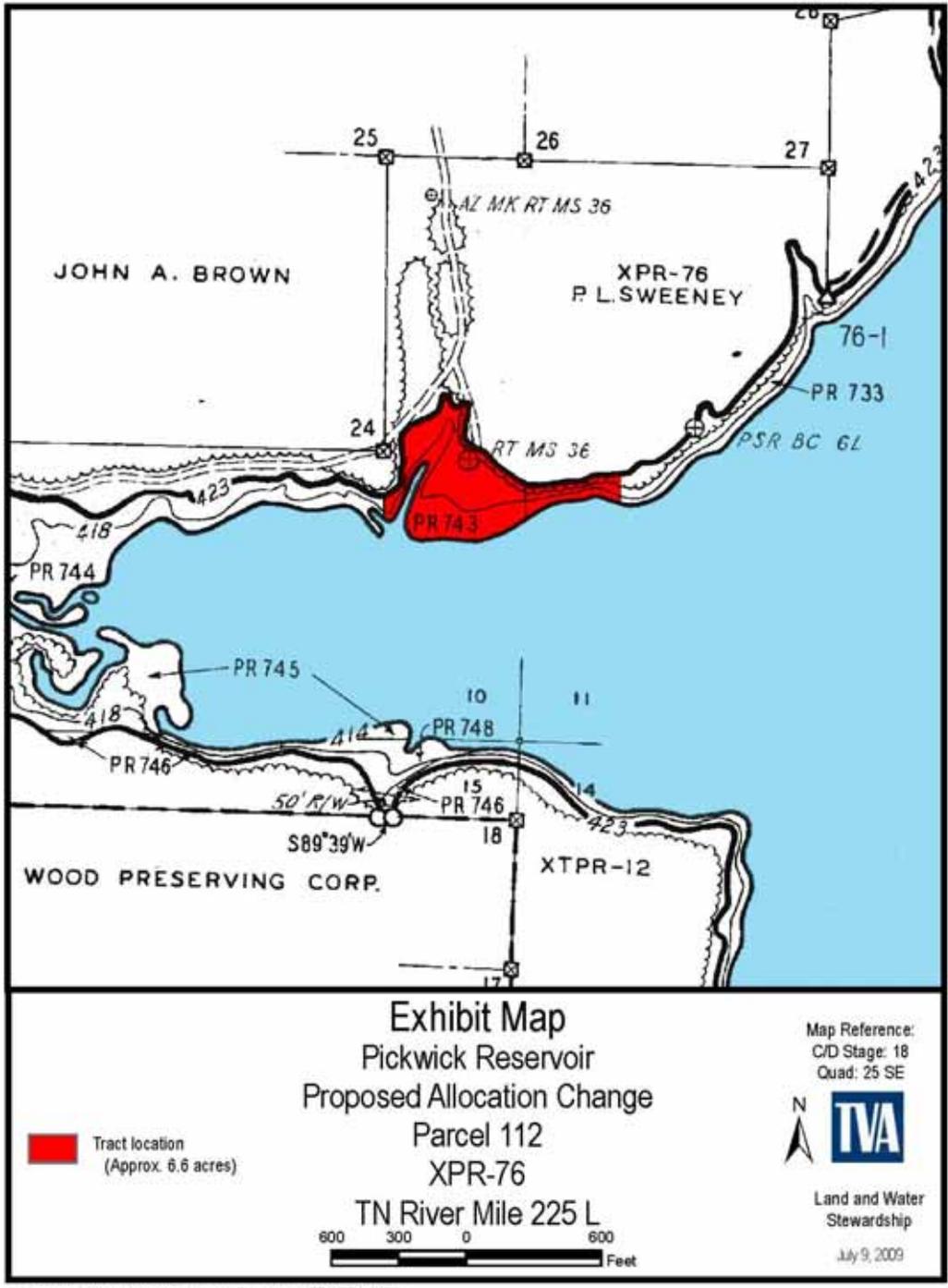
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Figure 42. Pickwick Reservoir Parcel 89



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Figure 44. Pickwick Reservoir Parcel 103



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Figure 45. Pickwick Reservoir Parcel 112

