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Index Field: Environmental Document
Project Name: Williams Bend Island Bank Stabilization
Project Number: 2013- 38

WILLIAMS BEND ISLAND BANK STABLIZATION
ENVIRONMENTAL ASSESSMENT
Melton Hill Reservoir
Knox County, Tennessee

Prepared by:
TENNESSEE VALLEY AUTHORITY
Knoxville

Cooperating Agency:
U.S. Department of Army, Corps of Engineers

September 2016

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Purpose and Need for Action

TVA is proposing to place rock riprap along on the shoreline of Williams Bend Island in Melton Hill Reservoir in order to address severe erosion and undercutting of the island's shoreline. The entire island's shoreline (approximately 1,100 feet) would be stabilized with rock riprap.

TVA is responsible for the management of public shoreline in Melton Hill Reservoir and for the protection of shoreline and aquatic resources, while providing reasonable public access. The proposal is intended to minimize the destabilization and erosion of the shoreline and banks of the island and the resultant turbidity and sedimentation of reservoir waters. Erosion of the shoreline is increasing, primarily due to the increasing presence of boats producing higher wakes on the reservoir. The proposal supports and is consistent with TVA's mission of environmental stewardship, the objectives for water resource management in the TVA Natural Resources Plan (NRP, 2011), and TVA's management goals set forth in TVA's Melton Hill Reservoir Land Management Plan (RLMP) in 1999.

Proposed Action

The proposed stabilization project would consist of placing rock riprap along approximately 1,100 feet of the entire shoreline of Williams Bend Island, which is located on Melton Hill Reservoir, Clinch River Mile 35.5L, 6D, 138NW in Tennessee. Delivery and placement of the riprap would be by barge. See the attached project map (Attachment 1). Most of the shoreline of the island is approximately 6 feet high; the tallest portion of the bank is at the point of the island and is approximately 12 feet high. The banks of the island are covered with limited grass, forbs, and brush vegetation. See the attached site description (Attachment 2) and photos (Attachment 3).

Rock riprap of sufficient size (generally 15 to 20 inches in diameter) to prevent washout would be placed on the shoreline such that the bottom of the riprap would be two feet below and the top would be three feet above the normal summer operating level (795 feet mean sea level). Where needed, the bank will be graded to produce a gentler slope. A filter fabric would be laid under the entire length of riprap and anchored to the ground; anchors will be placed slightly above the riprap on the bank. See the attached project design drawings (Attachment 4). In the future, the riprap installation may periodically require routine, minor maintenance (i.e., the addition of rock riprap at locations where sloughing has occurred). TVA proposes to conduct the work in late 2016 or early 2017 and estimates that the work would be completed in less than one month.

Riprap is considered fill material and is therefore subject to Sections 401 and 404 of the Clean Water Act (CWA). Before implementing the project, TVA must obtain an Aquatic Resource Alteration Permit from the State of Tennessee, Department of Environment and Conservation (TDEC), under Section 401 of the Clean Water Act. TVA must also gain approval for the project from the U.S. Department of Army, Army Corps of Engineers (USACE), under Section 404. For this particular project, the USACE waived the 500 linear foot limit of the Nationwide Permit for Bank Stabilization (NWP-13), therefore, this project now qualifies for USACE's NWP-13 , which became effective March 19, 2012. Such approval is required when the waters of the United States (U.S.) could be altered by a project. The USACE is serving as a cooperating agency in the completion of this EA.

TVA is also considering taking no action (i.e., not placing riprap along the Williams Bend Island to stabilize the streamline erosion issues). Taking no action would not address these resource

condition issues nor would it help TVA achieve its goals and objectives for managing the public shoreline. TVA also considered other stabilization methods (e.g. vegetation and bioengineering) but dismissed them from further consideration because the success of those methods in addressing critical erosion of such high banks is limited.

Environmental Impacts

TVA has reviewed the proposed project and documented potential environmental impacts related to the project in the attached Checklist (Attachment 5). The Checklist identifies the resources present in the project area and documents TVA's determination that the proposal would not significantly affect these resources.

As documented in the Checklist, the proposal would have no effect to endangered, threatened, or special status plant, aquatic, or wildlife species. TVA conducted a review of its Natural Heritage Database and found that no species were documented at or within a least a mile of the project location (see Attachment 6). No trees would be removed as part of the project, ensuring that there would be no impacts to the habitat of the Indiana bat (*Myotis sodalis*). In addition, according to the database, no sensitive aquatic or terrestrial wildlife habitats occur adjacent to or within the project area.

Impacts to cultural or wetland resources would not occur. No sensitive cultural resources are likely to occur at the project location, according to a field review by TVA staff. A review of the National Wetland Inventory database indicates that there are no wetlands at the location and there are no expected impacts to water flow or the river channel.

The 100-year floodplain may be affected, although the stabilization structure falls under the guidelines of TVA's class review of repetitive actions within the 100-year floodplain. Accordingly, there is no practicable alternative that would avoid siting riprap in the floodplain. A navigation light exists in close proximity to the island; however, navigation of the river system would not be impacted by the project. During construction, some soil erosion may occur or dredged or fill materials may be discharged and minor and temporary impacts may occur to riparian vegetation along the shoreline as the riprap is placed. However, TVA would implement standard measures and apply best management practices in implementing the project in order to minimize or mitigate potential impacts of the project. While some erosion may occur during construction, the primary beneficial effect of the project will be the long-term reduction in erosion of the island's shoreline and in sloughing of its banks. Riprap along the island's shoreline would also improve the accessibility of the island by boaters.

The parcel is not located within or adjacent to a wildlife management, park, scenic, or heritage area. However, the riprap installation would be visible to visitors of Melton Hill Park on the shoreline to the south and Clark Center Park to the northwest, as well as to boaters on the reservoir. Because there are few riprap installations in this area of the reservoir, the riprap around Williams Bend Island may noticeably contrast with the natural appearance of shorelines within view of the island. Such visual impacts would be minor however.

If TVA does not take action, the shoreline of Williams Bend Island will continue eroding and the undercutting and sloughing of banks will likely worsen. Erosion of the shoreline will continue to increase water turbidity and banks that are currently vertical or near vertical may be heightened by continued erosion. As portions of the bank slough into the reservoir, some vegetation would also become unstable and fall on to the shoreline. The portions of the shoreline that are more gently sloped may become vertical over time, with greater undercutting of the bank. Continued

erosion and degrading conditions of the shoreline (e.g., an increase of vertical banks) is expected to make access to the island more difficult for recreationists, as it likely that shoreline currently used as access points become destabilized over time.

The proposal is limited in scope and designed to improve degraded conditions along shoreline in this area of Melton Hill Reservoir. The potential adverse impacts of the project, when added to adverse impacts from other activities within the immediate area, would be insignificant. TVA regularly considers shoreline stabilization projects in Melton Hill reservoir. TVA also regularly considers proposals by property owners on the reservoir for minor structures or docks which may include the installation of riprap to stabilize the shoreline along the property. Cumulatively, these stabilization projects would change the character of small portions of the reservoir's shoreline but would have beneficial overall impacts – though very diffuse in reach – because of decreased erosion and water turbidity and improved recreational access. The cumulative impacts associated with these stabilization projects have also been described in the environmental review of the NRP and RLMP.

Agencies and Persons Consulted

Authorization to begin work is dependent on TVA obtaining the necessary permits. Because this project involves alteration of waters of the U.S., TVA requires a permit from TDEC under Section 401 of the Clean Water Act before implementing the proposal. USACE has expressed no concerns and identified no conflicts with the proposal and waived the limits of the NWP-13. TVA will secure a permit from TDEC and will notify USACE at least two weeks prior to start of work so that USACE can issue a Notice to Navigation Interests.

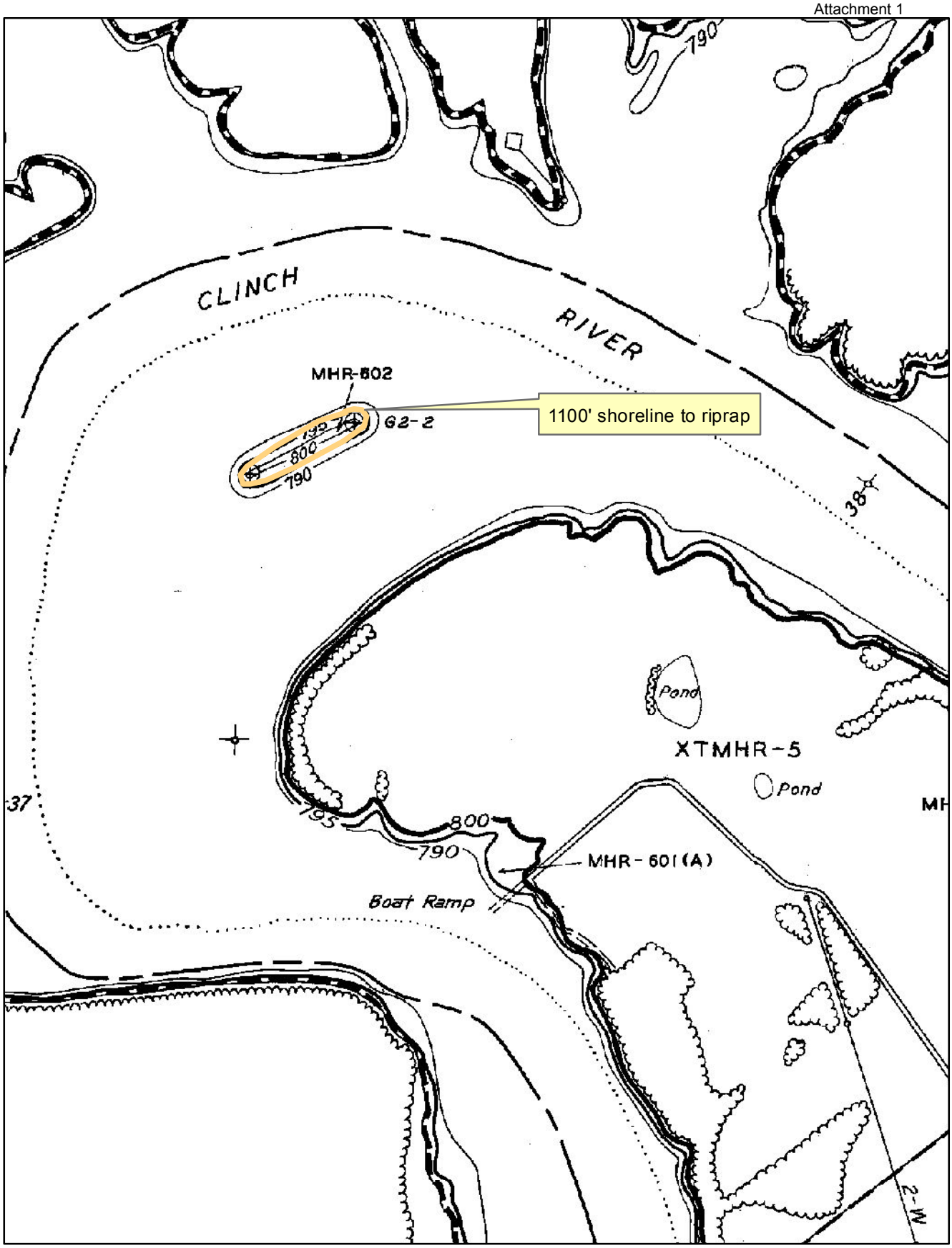
TVA Preparers

Angela Sutton – Land Use and Watershed Specialist
Tim Pruitt – Heritage Review and Watershed Specialist
Marianne Shuler – Archaeologist
Mark Lowe – Navigation Review
Matthew Higdon – NEPA Specialist

List of Attachments

Attachment 1 - Project Map
Attachment 2 - Site Information Form
Attachment 3 - Site Photographs
Attachment 4 - Project Drawings
Attachment 5 - Environmental Review Checklist
Attachment 6 - TVA Natural Heritage Database Query

ATTACHMENTS



N
W E
S

0 162.5 325 650 975 1,300 Feet

RLR
TVA - Williams Bend Island
Bank Stabilization Project
MHR-602
Melton Hill Reservoir
Clinch River 35.5L

Map Reference:
D Stage - 6
Topo - 138 NW

SITE INFORMATION CHECKLIST

Section 26a and Land Use

Applicant		TVA Tract No.	RLR No.
TVA		MHR-602	
Inspected By	**Inspection Date**	**Project Description**	
AMS	01/29/2013	Barge placement of riprap for stabilization	

☐ **26a Category I** ☒ **26a Category II** ☐ **26a Category III** ☐ **Land Use** ☐ **Other**

LOCATION (Section 26a reviews only)

1. **Will the proposed facility(ies) be?**
   ☐ **off reservoir** *(skip to question 11)* ☒ **on reservoir or regulated stream**
2. **Will the proposed facility(ies) be on?**
   ☐ **flowage easement** - *vegetation management plan (VMP) not required* ☒ **TVA-owned land** - *VMP required* ☐ **N/A**
3. **Will the proposed facility(ies) be in a?**
   ☐ **pre-Shoreline Management Policy (SMP) subdivision** - *Pre-SMP Waiver Guidelines may apply (for TVA-owned land: use pre-SMP vegetation management guidelines or document current practices)*
   ☐ **SMP subdivision** - *Section 26a Regulations apply (for TVA-owned land: VMP required; mark SMZ & access corridor)*
   ☒ **N/A**

SITE DATA (Section 26a reviews only)

4. **What is the Residential Shoreline Categorization?**
   ☐ **green** *(CEC not required for Cat. 1 & 2)* ☐ **yellow** ☐ **red** ☐ **N/A**
5. **Did the ALIS Archaeological SMI Database indicate potential (red) to affect archaeological resources?** ☐ **Yes** ☐ **No**
6. **Did the ALIS Heritage SMI Database* indicate potential to affect protected species?** ☐ **Yes** ☐ **No**
7. **Did the ALIS Wetlands SMI Database* indicate potential to affect wetlands?** ☐ **Yes** ☐ **No**

* Database to be developed from existing SMI data.

SITE COMPATIBILITY (Section 26a reviews only)

8. **Will the proposed facility(ies) extend beyond 1/3 of the cove or slough?**
   ☐ **Yes** - *refer to Prescreening Criteria Checklist* ☒ **No**
9. **Is space limited in this part of the reservoir so that the proposed facility may affect existing facilities? In jointly owned outlot situations, see Regulations §1304.206.**
   ☐ **Yes** - *modify plans* ☒ **No**

NAVIGATION (Section 26a reviews only)

10. **Will the proposed facility(ies) be located near the following?**
    Check all that apply and refer to Prescreening Criteria Checklist.
    ☒ **a navigation marker** ☐ **a light** ☐ **a safety harbor** ☐ **shoreline which requires navigation review**

    If the site needs review by a navigation specialist, indicate any shoreline characteristics that may affect navigation's approval of the facility.
    ☐ **rock outcroppings** ☒ **bank erosion** ☐ **other** _____

TRANSMISSION SYSTEM

11. **Is there a TVA transmission line crossing at the site (lot)?**
    ☐ **Yes** - *refer to Prescreening Criteria Checklist* ☒ **No**

SITE INFORMATION OBSERVATIONS

12. **Adjacent/backlying land use:**
    ☐ **no development** ☐ **residential** ☐ **recreational** ☐ **commercial** ☐ **industrial** ☐ **agricultural**
13. **Natural shoreline features:**
    ☐ **undercut bank** ☐ **rock outcroppings** ☒ **height of bank in feet**

SITE INFORMATION OBSERVATIONS - Continued

14. Shoreline erosion:

- ☐ **none** *(stabilized, rock outcrop, bluff)*
- ☐ **minimal** *(adequate vegetative cover, grass/shrub cover)*
- ☐ **moderate** *(<2' vertical bank and/or limited vegetative cover)*
- ☒ **severe** *(>2' vertical bank and/or limited vegetative cover, bank sloughing, rills and gullies)*

15. Manmade shoreline features:

☐ **riprap** ☐ **seawall** ☐ **other** _____

16. Typography / percent (%) slope:

☒ **gentle / (0-5%)** ☐ **medium / (6-20%)** ☐ **steep / (>20%)**

17. What is the visible soil type or parent material at or below pool?

☐ **sand**	☒ **silt**	☐ **rubble or cobblestones**
☒ **clay**	☐ **gravel**	☐ **bed rock** *(solid rock underlying surface material)*

18. Indicate vegetation cover on TVA property:

(Choose S = at shoreline, B = at backlying TVA property, or S&B = at shoreline and backlying TVA property)

___ **bare soil**	BS **grass/forb**	___ **pine/grass**
___ **hardwood/grass**	___ **lawn/maintained field**	___ **pine/undercover**
___ **hardwood/undercover**	___ **shrub/grass**	___ **pine/cedar**
___ **trees fallen into water**	___ **shrub/brush**	___ **pine/hardwood**

RESOURCE INDICATOR OBSERVATIONS

19. Are any of the following indicated?

☐ **streams** ☐ **several submerged stumps** ☐ **springs/seeps** ☐ **fish attractor** *(brush pile)*

20. Are any of the following observed?

☐ **caves** *(endangered bats, etc.)* ☐ **nests greater than 3' in diameter or several large nests** *(eagle, osprey)*

21. Are any of the following conditions present?

- ☐ **emergent wetland** *(cattail, bulrush; i.e., plants in the water along water's edge)*
- ☐ **scrub/shrub wetland** *(buttonbush, black willow, river alder, silky dogwood; i.e., bushes along water's edge)*
- ☐ **aquatic bed wetland** *(water milfoil, naiads, pondweeds; i.e., plants in the water)*
- ☐ **forested wetland** *(willow, sycamore, silver maple, river birch; i.e., trees along shore)*

22. Are any of the following observed or on acquisition map? *(Include submerged features)*

(Provide copy of the appropriate portion of the acquisition map to reviewers)

☐ **spring**	☐ **house foundation**	☐ **barn**	☐ **roadbed(s)**
☐ **sinkhole(s)**	☐ **orchard**	☐ **outhouse**	☐ **pump house**

☐ **other** _____

23. Are any structures 50 years old or older present or visible from impact area? ☐ **Yes** ☒ **No**

24. Are any archaeological materials observed? *(Such as flint chips, pot shards, bones, old mussel shells, bricks, etc.)* ☐ **Yes** ☒ **No**

Notes: Bank is approx 6', ranges up to 12' high on point of island.

Williams Bend Island
Left descending bank

Downstream area, left descending bank

Mid-island, left descending bank

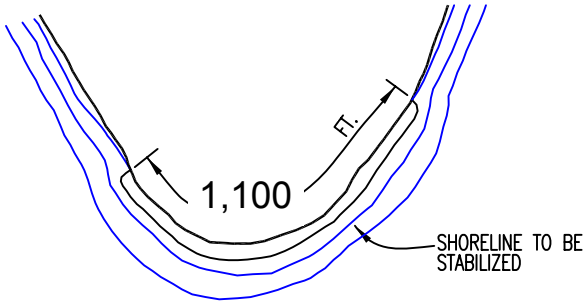
Upstream area, left descending bank

Upstream area, right descending bank (channel side)

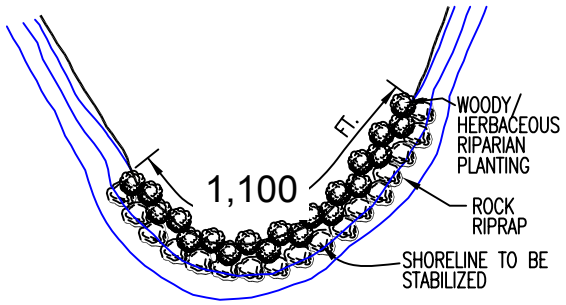
Mid-island, right descending bank

Downstream area, right descending bank

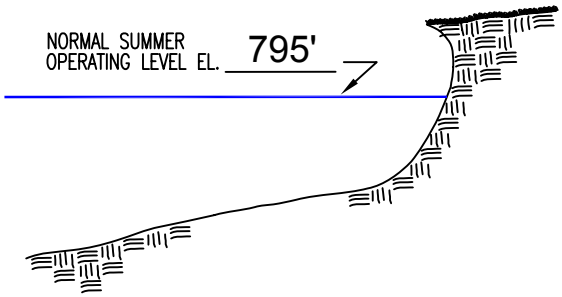
NOTE: INCLUDE ALL DIMENSIONS AND ELEVATIONS WHERE INDICATED



PLAN SHOWING EXISTING SHORELINE



PLAN SHOWING STABILIZED SHORELINE



SECTION SHOWING EXISTING SHORELINE

SECTION SHOWING STABILIZED SHORELINE

TVA

ROCK RIPRAP w/ OPTIONAL VEGETATION

PROJECT LOCATION INFORMATION:

APPLICANT Tennessee Valley Authority
RESERVOIR Melton Hill
TRACT NUMBER MHR-602
SUBDIVISION N/A
LOT NO. N/A MAP NO. 6D
RIVER Clinch River RIVER MILE 35.5L

Categorical Exclusion Checklist for Proposed TVA Actions

Categorical Exclusion Number Claimed	Organization ID Number RLR236692	**Tracking Number** *(NEPA Administration Use Only)* 28965

Form Preparer Angela M Sutton	Project Initiator/Manager Angela M Sutton	Business Unit P&NR - Reservoir Property & Resource Mgmt

Project Title 26a Category 2 RLR 236692 Angela Sutton Tennessee Valley Authority Melton Hill Reservoir - Williams	Hydrologic Unit Code

Description of Proposed Action *(Include Anticipated Dates of Implementation)* ☒ Continued on Page 3 *(if more than one line)*
For Proposed Action See Attachments and References

Initiating TVA Facility or Office Eastern Region	TVA Business Units Involved in Project

Location *(City, County, State)*
KNOX, TN, County, State: KNOX, TN Map Sheet(s): 138 NW Quad Sheet 6 C/D Stage Stream(s): Clinch R 35.50 L

Parts 1 through 4 verify that there are no extraordinary circumstances associated with this action:

Part 1. Project Characteristics

	Is there evidence that the proposed action...	No	Yes	Information Source for Insignificience
	1.Is major in scope?	X		NOA, Sutton, Angela M. 08/21/2013
	2.Is part of a larger project proposal involving other TVA actions or other federal agencies?	X		NOA, Sutton, Angela M. 08/21/2013
*	3.Involves non-routine mitigation to avoid adverse impacts?	X		NOA, Sutton, Angela M. 08/21/2013
	4.Is opposed by another federal, state, or local government agency?	X		Sutton, Angela M. 09/13/2013
*	5.Has environmental effects which are controversial?	X		NOA, Sutton, Angela M. 08/21/2013
*	6.Is one of many actions that will affect the same resources?		X	For comments see attachments
	7.Involves more than minor amount of land?	X		NOA, Sutton, Angela M. 08/21/2013

*If "yes" is marked for any of the above boxes, consult with NEPA Administration on the suitability of this project for a categorical exclusion.

Part 2. Natural and Cultural Features Affected

Would the proposed action...	No	Yes	Per-mit	Commit-ment	Information Source for Insignificience
1.Potentially affect endangered, threatened, or special status species?	X		No	No	For comments see attachments
2.Potentially affect historic structures, historic sites, Native American religious or cultural properties, or archaeological sites?	X		No	No	For comments see attachments
3.Potentially take prime or unique farmland out of production?	X		No	No	NOA, Sutton, Angela M. 08/21/2013
4.Potentially affect Wild and Scenic Rivers or their tributaries?	X		No	No	Sutton, Angela M. 09/13/2013
5.Potentially affect a stream on the Nationwide Rivers Inventory?	X		No	No	Sutton, Angela M. 09/13/2013
6.Potentially affect wetlands, water flow, or stream channels?	X		No	No	For comments see attachments
7.Potentially affect the 100-year floodplain?		X	No	No	For comments see attachments
8.Potentially affect ecologically critical areas, federal, state, or local park lands, national or state forests, wilderness areas, scenic areas, wildlife management areas, recreational areas, greenways, or trails?	X		No	No	For comments see attachments
9.Contribute to the spread of exotic or invasive species?	X		No	No	For comments see attachments
10.Potentially affect migratory bird populations?	X		No	No	For comments see attachments
11.Involve water withdrawal of a magnitude that may affect aquatic life or involve interbasin transfer of water?	X		No	No	NOA, Sutton, Angela M. 08/21/2013
12.Potentially affect surface water?	X		No	No	Sutton, Angela M. 09/13/2013
13.Potentially affect drinking water supply?	X		No	No	NOA, Sutton, Angela M. 08/21/2013
14.Potentially affect groundwater?	X		No	No	NOA, Sutton, Angela M. 08/21/2013
15.Potentially affect unique or important terrestrial habitat?	X		No	No	For comments see attachments
16.Potentially affect unique or important aquatic habitat?	X		No	No	For comments see attachments

Part 3. Potential Pollutant Generation

Would the proposed action potentially (including accidental or unplanned)...	No	Yes	Per-mit	Commit-ment	Information Source for Insignificience
1.Release air pollutants?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
2.Generate water pollutants?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
3.Generate wastewater streams?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
4.Cause soil erosion?		X	No	No	For comments see attachments
5.Discharge dredged or fill materials?		X	No	No	For comments see attachments
6.Generate large amounts of solid waste or waste not ordinarily generated?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
7.Generate or release hazardous waste (RCRA)?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
8.Generate or release universal or special waste, or used oil?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
9.Generate or release toxic substances (CERCLA, TSCA)?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
10.Involve materials such as PCBs, solvents, asbestos, sandblasting material, mercury, lead, or paints?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
11.Involve disturbance of pre-existing contamination?	X		No	No	Sutton, Angela M. 09/13/2013
12.Generate noise levels with off-site impacts?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
13.Generate odor with off-site impacts?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
14.Produce light which causes disturbance?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
15.Release of radioactive materials?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
16.Involve underground or above-ground storage tanks or bulk storage?	X		No	No	CBC, Sutton, Angela M. 08/21/2013
17.Involve materials that require special handling?	X		No	No	CBC, Sutton, Angela M. 08/21/2013

Part 4. Social and Economic Effects

Would the proposed action...	No	Yes	Commit-ment	Information Source for Insignificience
1.Potentially cause public health effects?	X		No	NOA, Sutton, Angela M. 08/21/2013
2.Increase the potential for accidents affecting the public?	X		No	NOA, Sutton, Angela M. 08/21/2013
3.Cause the displacement or relocation of businesses, residences, cemeteries, or farms?	X		No	NOA, Sutton, Angela M. 08/21/2013
4.Contrast with existing land use, or potentially affect resources described as unique or significant in a federal, state, or local plan?	X		No	Sutton, Angela M. 09/13/2013
5.Disproportionately affect minority or low-income populations?	X		No	NOA, Sutton, Angela M. 08/21/2013
6.Involve genetically engineered organisms or materials?	X		No	NOA, Sutton, Angela M. 08/21/2013
7.Produce visual contrast or visual discord?	X		No	Sutton, Angela M. 09/13/2013
8.Potentially interfere with recreational or educational uses?	X		No	Sutton, Angela M. 09/13/2013
9.Potentially interfere with river or other navigation?		X	No	For comments see attachments
10.Potentially generate highway or railroad traffic problems?	X		No	NOA, Sutton, Angela M. 08/21/2013

Part 5. Other Environmental Compliance/Reporting Issues

Would the proposed action...	No	Yes	Commit-ment	Information Source for Insignificience
1.Release or otherwise use substances on the Toxic Release Inventory list?	X		No	NOA, Sutton, Angela M. 08/21/2013
2.Involve a structure taller than 200 feet above ground level?	X		No	NOA, Sutton, Angela M. 08/21/2013
3.Involve site-specific chemical traffic control?	X		No	NOA, Sutton, Angela M. 08/21/2013
4.Require a site-specific emergency notification process?	X		No	NOA, Sutton, Angela M. 08/21/2013
5.Cause a modification to equipment with an environmental permit?	X		No	NOA, Sutton, Angela M. 08/21/2013
6.Potentially impact operation of the river system or require special water elevations or flow conditions??	X		No	Sutton, Angela M. 09/13/2013
7.Involve construction of a new building or renovation of existing building (i.e., major changes to lighting, HVAC, and/or structural elements of building of 2000 sq. ft or more) on which TVA will pay/pays the utilities??	X		No	Sutton, Angela M. 09/13/2013

Parts 1 through 4: If "yes" is checked, describe in the discussion section following this form why the effect is insignificant. Attach any conditions or commitments which will ensure insignificant impacts. Use of non-routine commitments to avoid significance is an indication that consultation with NEPA Administration is needed.

An ☐ EA or ☐ EIS Will be prepared.

Based upon my review of environmental impacts, the discussion attached, and/or consultations with NEPA Administration, I have determined that the above action does not have a significant impact on the quality of the human environment and that no extraordinary circumstances exist. Therefore, this proposal qualifies for a categorical exclusion under Section 5.2. _____ of TVA NEPA Procedures.

Project Initiator/Manager Angela M Sutton		Date 09/13/2013
TVA Organization OER	E-mail ampolly@tva.gov	Telephone

Site Environmental Compliance Reviewer

Signature

Final Review/Closure

Signature

Other Review Signatures *(as required by your organization)*

Garry E Chappelle 09/16/2013

Signature

Signature

Signature

Signature

Signature

Signature

Attachments/References

Project Title Continued from Page 1
26a Category 2 RLR 236692 Angela Sutton Tennessee Valley Authority Melton Hill Reservoir - Williams Bend Island

Description of Proposed Action Continued from Page 1
Applicant(s): Angela Sutton Tennessee Valley Authority 260 Interchange Park Drive Lenoir City TN 37772 Stabilize 1,100' eroding shoreline

CEC General Comment Listing

1. NO COMMENT TEXT
   By: 26a Added Comment
2. NO COMMENT TEXT
   By: 26a Added Comment
3. NO COMMENT TEXT
   By: 26a Added Comment
4. NO COMMENT TEXT
   By: 26a Added Comment
5. NO COMMENT TEXT
   By: 26a Added Comment
6. NO COMMENT TEXT
   By: 26a Added Comment
7. NO COMMENT TEXT
   By: 26a Added Comment
8. NO COMMENT TEXT

By: 26a Added Comment

9. NO COMMENT TEXT

By: 26a Added Comment

10. Email from environmental scientist informing that this action may be elevated to an EA

By: 26a Added Comment

11. In the Information Source columns associated with the checklist questions, NOA refers to Nature of Action and CBC refers to Cleared By Criteria. These criteria are described in the Resource Stewardship Prescreening Criteria Checklist Instructions.
By: Angela M Sutton 08/21/2013

CEC Comment Listing

Part 1 Comments

6. Addresses in Shoreline Management Initiative Environmental Impact Statem
ent
By: Angela M Sutton 08/21/2013

Part 2 Comments

1. Species list for normal 3, 5, 10 mile search radii and an additional 10 for terrestrial species only in search of Indiana Bats. See comments.
By: Tim D Pruitt 09/09/2013
Files: 236692-TVA-Williams Island_Results_table.pdf 09/09/2013 128.79 Bytes

1. Myotis sodalis (Indiana bat) is listed as a federally endangered species for this area. Myotis sodalis hibernates in caves; this species migrates from caves to roosts during the summer behind loose bark of dead or dying trees or in tree cavities. This includes both individual bats and maternity colonies. Due to current concerns over the status of the Indiana Bat population in the U.S. an additional search radius of 10 miles was performed for this species only. No Indiana bats were recorded within 10 miles of this project site. Therefore, TVA has determined that there would be no effects to this species and I concur with approval of this project.
By: Tim D Pruitt 09/09/2013

1. A review of the ALIS Heritage data base, the SIC, and site photos was conducted. Please see attached Spread Sheet for detailed list of species.

Aquatic Animals: Within the required 10 mile search radius EORs for 15 fish and mollusk species were recorded. These records show that many of these species were likely located there historically but are now considered extirpated from the reservoir areas. Where these species are extant it is the more riverine sections of the reservoir, the reservoir tail waters, or smaller tributary streams nearby, reflecting the locations where appropriate habitat exists for these fish to survive and reproduce. There will be no impacts from this action.

Plants and Champion Trees: Within a 5 mile search radius EORs occurred for 18 state listed plant species. The various species commonly found on in this area have State rankings ranging from Special Concern (SPCO), Commercially Exploited (S-CE), Threatened (T or THE) and Endangered (E or END). None of these EORs occur within the immediate vicinity of this site. Many of the noted EORs are located on tracts of TVA property not subject to development, Habitat protection areas, and the majority of them located on the DOE Oak Ridge Reservation where they have been given an extra level of protection since that area was established. There will be no impacts from this action.

Terrestrial Animals, Wading Bird Colonies (Heronies) and Caves: Within a 3 mile search radius of the project site EORs occurred for 6 animal species/nesting sites and 4 for cave. The EOR for Gray Bat was not in the immediate vicinity. None of these caves are in the immediate vicinity of this site and none are listed as significant to bat habitat. Due to the normal activity already occurring nearby, the readily available habitat in the surrounding area for any of the recorded species, and the limited actions of this request there will be no impacts.

I concur with approval.

By: Tim D Pruitt 09/09/2013

2. A field review was conducted on 04-04-13. Although one archaeological site (40KN29) was originally mapped in the location of the permitting area, only a spare amount of cultural material (three flakes) was noted along the shoreline in this area. Based on examination of pre-inundation maps for the area, it is likely that site 40KN29 is located ca. 100 meters to the northwest of the permit area and will not be affected by the planned action. No historic properties will be affected. We concur with approval.
By: Marianne M Shuler 09/11/2013

6. Review of the ALIS Heritage Wetland data base, the site photos and the SIC reveals no wetlands in this area. Therefore no wetland impacts will occur if permitted. I concur with approval.
By: Tim D Pruitt 09/09/2013

7. This permitted facility will fall under the guidelines of TVA's class review of repetitive actions within the 100-year floodplain.
By: Angela M Sutton 09/13/2013

8. Based on a review of the ALIS Heritage data base data there will be no affects on ecologically critical areas, federal, state, or local park lands, national or state forests, wilderness areas, scenic areas, wildlife management areas, recreational areas, greenways, or trails. I concur with approval.
By: Tim D Pruitt 09/09/2013

9. This action will not contribute to the spread of exotic or invasive species. I concur with approval.

By: Tim D Pruitt 09/09/2013

10. This action will not potentially affect migratory bird populations. I concur with approval.

By: Tim D Pruitt 09/09/2013

15. This action will not potentially affect unique or important terrestrial habitat, see response for Question 1 above. I concur with approval.

By: Tim D Pruitt 09/09/2013

16. This action will not potentially affect unique or important aquatic habitat, see response for Question 1 above. I concur with approval.

By: Tim D Pruitt 09/09/2013

Part 3 Comments

4. Insignificant with implementation of General and Standard Conditions in cluding BMPs

By: Angela M Sutton 08/21/2013

5. Riprap is considered to be fill material.

By: Angela M Sutton 09/13/2013

Part 4 Comments

9. Please see attached Navigation comments.

By: Mark C Lowe 08/22/2013

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CEC Permit Listing

CEC Commitment Listing

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