



LWCF Proposal Description and Environmental Screening Form

The purpose of this Proposal Description and Environmental Screening Form (PD/ESF) is to provide descriptive and environmental information about a variety of Land and Water Conservation Fund (LWCF) state assistance proposals submitted for National Park Service (NPS) review and decision. The completed PD/ESF becomes part of the "federal administrative record" in accordance with the National Environmental Policy Act (NEPA) and its implementing regulations. The PD portion of the form captures administrative and descriptive details enabling the NPS to understand the proposal. The ESF portion is designed for States and/or project sponsors to use while the LWCF proposal is under development. Upon completion, the ESF will indicate the resources that could be impacted by the proposal enabling States and/or project sponsors to more accurately follow an appropriate pathway for NEPA analysis: 1) a recommendation for a Categorical Exclusion (CE), 2) production of an Environmental Assessment (EA), or 3) production of an Environmental Impact Statement (EIS). The ESF should also be used to document any previously conducted yet still viable environmental analysis if used for this federal proposal. The completed PD/ESF must be submitted as part of the State's LWCF proposal to NPS.

Except for the proposals listed below, the PD/ESF **must** be completed, including the appropriate NEPA document, signed by the State, and submitted with each new federal application for LWCF assistance and amendments for: scope changes that alter or add facilities and/or acres; conversions; public facility exceptions; sheltering outdoor facilities; and changing the original intended use of an area from that which was approved in an earlier LWCF agreement. Consult the LWCF Program Manual (www.nps.gov/lwcf) for detailed guidance for your type of proposal and on how to comply with NEPA.

For the following types of proposals <u>only this Cover Page is required</u> because these types of proposals are administrative in nature and are categorically excluded from further NEPA environmental analysis. <u>NPS will complete the NEPA CE Form.</u> Simply check the applicable box below, and complete and submit only this **Cover Page** to NPS along with the other items required for your type of proposal as instructed in the LWCF Program Manual.

☐ SCORP planning proposal
\square Time extension with no change in project scope or with a reduction in project scope
\Box To delete work and no other work is added back into the project scope
☐ To change project cost with no change in project scope or with a reduction in project scope
☐ To make an administrative change that does not change project scope

Name of LWCF Proposal: Cub Creek Park Conversion Date Submitted to NPS:

Prior LWCF Project Number(s) List all prior LWCF project numbers and all park names associated with assisted site(s):

Local or State Project Sponsoring Agency (recipient or sub-recipient in case of pass-through grants):

Town of Wilkesboro

North Carolina Department of Transportation

Local or State Sponsor Contact:

Name/Title: Kenneth Noland, ICMA-CM; Town Manager

Office/Address: Town of Wilkesboro

203 West Main Street Wilkesboro, NC 28697

Phone/Fax: (336) 838-3951 / (336) 838-7616 Email: townmanager@wilkesboronorthcarolina.com

Cover Page 10/01/2008

Using a separate sheet for narrative descriptions and explanations, address each item and question in the order it is presented, and identify each response with its item number such as Step 1-A1, A2; Step 3-B1; Step 6-A1, A29; etc.

Step 1. Type of LWCF Proposal						
New Project Application Acquisition Go to Step 2A Development Go to Step 2B Combination Go to Step 2B	nation (Acquisition & Development)					
X Project Amendment Increase in scope or change in scope from original Complete Steps 3A, and 5 through 7. X 6(f) conversion proposal. Complete Steps 3B, and 5						
Request for public facility in a Section 6(f) area. Co						
Complete Steps 4A, and 5 through 7. Request for significant change in use/intent of original Complete Steps 4B, and 5 through 7.	al LWCF application.					
Request to shelter existing/new facility within a Secti source. Complete Steps 4C, and 5 through 7.	ion 6(f) area regardless of funding					
Step 2. New Project Application (See LWCF Manual for guidance.)						

A. For an Acquisition Project

- 1. Provide a brief narrative about the proposal that provides the reasons for the acquisition, the number of acres to be acquired with LWCF assistance, and a description of the property. Describe and quantify the types of existing resources and features on the site (for example, 50 acres wetland, 2,000 feet beachfront, 200 acres forest, scenic views, 100 acres riparian, vacant lot, special habitat, any unique or special features, recreation amenities, historic/cultural resources, hazardous materials/ contamination history, restrictions, institutional controls, easements, rights-of-way, above ground/underground utilities, including wires, towers, etc.).
- 2. How and when will the site be made open and accessible for public outdoor recreation use (signage, entries, parking, site improvements, allowable activities, etc.)?
- 3. Describe development plans for the proposal for the site(s) for public outdoor recreation use within the next three (3) years.
- 4. SLO must complete the State Appraisal/Waiver Valuation Review form in Step 7 certifying that the appraisal(s) has been reviewed and meets the "Uniform Appraisal Standards for Federal Land Acquisitions" or a waiver valuation was approved per 49 CFR 24.102(c)(2)(ii). State should retain copies of the appraisals and make them available if needed.
- 5. Address each item in "D" below.

B. For a Development Project

- 1. Describe the physical improvements and/or facilities that will be developed with federal LWCF assistance, including a site sketch depicting improvements, where and how the public will access the site, parking, etc. Indicate entrances on 6(f) map. Indicate to what extent the project involves new development, rehabilitation, and/or replacement of existing facilities.
- 2. When will the project be completed and open for public outdoor recreation use?
- 3. Address each item in "D" below.

C. For a Combination Project

- 1. For the acquisition part of the proposal:
 - a. Provide a brief narrative about the proposal that provides the reasons for the acquisition, number of acres to be acquired with LWCF assistance, and describes the property. Describe and quantify the types of existing resources and features on the site (for example, 50 acres wetland, 2,000 feet beachfront, 200 acres forest, scenic views, 100 acres riparian, vacant lot, special habitat, any unique or special features, recreation amenities, historic/cultural resources, hazardous materials/ contamination history, restrictions, institutional controls, easements, rights-of-way, above ground/underground utilities, including wires, towers, etc.)
 - b. How and when will the site be made open and accessible for public outdoor recreation use (signage, entries, parking, site improvements, allowable activities, etc.)?
 - c. Describe development plans for the proposed for the site(s) for public outdoor recreation use within the next three (3) years.
 - d. SLO must complete the State Appraisal/Waiver Valuation Review form in Step 7 certifying that the appraisal(s) has been reviewed and meets the "Uniform Appraisal Standards for Federal Land Acquisitions" or a waiver valuation was approved per 49 CFR 24.102(c)(2)(ii). State should retain copies of the appraisals and make them available if needed.
- 2. For the development part of the proposal:
 - a. Describe the physical improvements and/or facilities that will be developed with federal LWCF assistance, including a site sketch depicting improvements, where and how the public will access the site, parking, etc. Indicate entrances on 6(f) map. Indicate to what extent the project involves new development, rehabilitation, and/or replacement of existing facilities.
 - b. When will the project be completed and open for public outdoor recreation use?
- 3. Address each item in "D" below.

D. 1.	Wi	dditional items to address for a new application and amendments If this proposal create a new public park/recreation area where none previously existed and is not an dition to an existing public park/recreation area? Yes (go to #3) No _X_ (go to #2)
2.	a.	What is the name of the pre-existing public area that this new site will be added to? Cub Creek Park
	b.	Is the pre-existing public park/recreation area already protected under Section 6(f)? Yes <u>X</u> No If no, will it now be included in the 6(f) boundary? Yes No
3.	Wł	nat will be the name of this new public park/recreation area? Cub Creek Park
4.	a.	Who will hold title to the property assisted by LWCF? Who will manage and operate the site(s)? The Town of Wilkesboro
	b.	What is the sponsor's type of ownership and control of the property?
		X Fee simple ownership
		Less than fee simple. Explain:
		Lease. Describe lease terms including renewable clauses, # of years remaining on lease, etc.
		Who will lease area? Submit copy of lease with this PD/ESF. (See LWCF Manual for program
		<u>restrictions</u> for leases and further guidance.)

5. Describe the nature of any rights-of-way, easements, reversionary interests, etc. to the Section 6(f) park area? Indicate the location on 6(f) map. Do parties understand that a Section 6(f) conversion may occur if private or non-recreation activities occur on any pre-existing right-of-way, easement, leased area?

Acquisition of Right-of-way and a permanent utility easement will be required for the replacement of Bridge No. 29 on Oakwood Road. Bridge No. 29 will be replaced on a new alignment (towards the park) to improve the safety of the bridge for the vehicular use. A plan of the proposed replacement has been provided for reference. NCDOT has been working with the Town of Wilkesboro, as well as the regional LWCF coordinator, and are aware of the Section 6(f) conversion.

- 6. Are overhead utility lines present, and if so, explain how they will be treated per LWCF Manual.
 - Existing overhead power lines will need to be relocated away from the proposed alignment. A permanent easement will be used for access to the new location of the utilities.
- 7. As a result of this project, describe **new** types of outdoor recreation opportunities and capacities, and short and long term public benefits.
 - Conversion property, located along the southwest edge of the park, will be converted for use as a hiking trail as well as for recreational bicyclists.
- 8. Explain any existing non-recreation and non-public uses that will continue on the site(s) and/or proposed for the future within the 6(f) boundary.

None from this bridge replacement project.

- 9. Describe the planning process that led to the development of this proposal. Your narrative should address:
 - a. How was the interested and affected public notified and provided opportunity to be involved in planning for and developing your LWCF proposal? Who was involved and how were they able to review the completed proposal, including any state, local, federal agency professionals, subject matter experts, members of the public and Indian Tribes. Describe any public meetings held and/or formal public comment periods, including dates and length of time provided for the public to participate in the planning process and/or to provide comments on the completed proposal.

Throughout the development of the bridge replacement project several newsletters and postcards were provided to the public; area businesses and residents, providing information and requesting comments. Replacement property was located and suggested for conversion by the Town of Wilkesboro.

b. What information was made available to the public for review and comment? Did the sponsor provide written responses addressing the comments? If so, include responses with this PD/ESF submission.

See above

- 10. How does this proposal implement statewide outdoor recreation goals as presented in the Statewide Comprehensive Outdoor Recreation Plan (SCORP) (include references), and explain why this proposal was selected using the State's Open Project Selection Process (OPSP).
- 11. List all source(s) and amounts of financial match to the LWCF federal share of the project. The value of the match can consist of cash, donation, and in-kind contributions. The federal LWCF share and financial matches must result in a viable outdoor recreation area and not rely on other funding not mentioned here. Other federal resources may be used as a match if specifically authorized by law.

Source	Type of Match	Value
N/A		\$
		\$
		•
		\$
		•

12. Is this LWCF project scope part of a larger effort <u>not</u> reflected on the SF-424 (*Application for Federal Assistance*) and grant agreement? If so, briefly describe the larger effort, funding amount(s) and source(s). This will capture information about partnerships and how LWCF plays a role in leveraging funding for projects beyond the scope of this federal grant.

Conversion of property for the bridge replacement project is not part of any other LWCF or other recreation effort.

13. List all required federal, state, and local permits/approvals needed for the proposal and explain their purpose and status.

Approval of the Section 6(f) conversion will be required from the National Parks Service as well as a *de minimis* determination for Section 4(f) from The Federal Highways Administration (FHWA).



Step 3. Project Amendment (See LWCF Manual for guidance.)

A. Increase/Change in Project Scope

- 1. **For Acquisition Projects**: To acquire additional property that was not described in the original project proposal and NEPA documentation, follow Step 2A-Acquisition Project and 2D.
- 2. **For Development Projects:** To change the project scope for a development project that alters work from the original project scope by adding elements or enlarging facilities, follow Step 2B-Development Project and 2D.
- 3. For Combination Projects: Follow Step 2C as appropriate.

B. Section 6(f)(3) Conversion Proposal

Prior to developing your Section 6(f)(3) conversion proposal, you must consult the LWCF Manual and 36 CFR 59.3 for complete guidance on conversions. Local sponsors must consult early with the State LWCF manager when a conversion is under consideration or has been discovered. States must consult with their NPS-LWCF manager as early as possible in the conversion process for guidance and to sort out and discuss details of the conversion proposal to avoid mid-course corrections and unnecessary delays. A critical first step is for the State and NPS to agree on the size of the Section 6(f) park land impacted by any non-recreation, non-public use, especially prior to any appraisal activity. Any previous LWCF project agreements and actions must be identified and understood to determine the actual Section 6(f) boundary.

The Section 6(f)(3) conversion proposal including the required NEPA environmental review documents (CE recommendation or an EA document) must focus on the loss of public outdoor recreation park land and recreational usefulness, and its replacement per 36 CFR 59, and <u>not</u> the activities precipitating the conversion or benefits thereof, such as the impacts of constructing a new school to relieve overcrowding or constructing a hotel/restaurant facility to stimulate the local economy. Rather, the environmental review must 1) focus on "resource impacts" as indicated on the ESF (Step 6), including the loss of public park land and recreation opportunities (ESF A-15), and 2) the impacts of creating new replacement park land and replacement recreation opportunities. A separate ESF must be generated for the converted park area and each replacement site. Section 6(f)(3) conversions always have more than minor impacts to outdoor recreation (ESF A-15) as a result of loss of parkland requiring an EA, except for "small" conversions as defined in the LWCF Manual Chapter 8.

For NPS review and decision, the following elements are required to be included in the State's completed conversion proposal to be submitted to NPS:

- 1. A letter of transmittal from the SLO recommending the proposal.
- 2. A detailed explanation of the sponsor's need to convert the Section 6(f) parkland including all efforts to consider other practical alternatives to this conversion, how they were evaluated, and the reasons they were not pursued.

The replacement of Bridge No. 29 over Cub Creek studied three alternatives for replacement: replace in-place; replace on new alignment to the east; replacement on new alignment the west. The replacement to the east alternative was dropped from consideration due to the unfavorable degree of curve which would be required on the bridge, and the replace in-place was dropped due to the proposal not rectifying a hazardous curve caused by the existing alignment.

3. An explanation of how the conversion is in accord with the State Comprehensive Outdoor Recreation Plan (SCORP).

A Statewide Comprehensive Outdoor Recreation Plan (SCORP) is required in order for states to be eligible for LWCF acquisition and development assistance. The *North Carolina Outdoor Recreation Plan 2009-2013*, prepared by the North Carolina Division of Parks and Recreation, provides a framework for addressing the state's problems, needs, and opportunities for improved public outdoor recreation. The SCORP notes the goal of conserving land under the North Carolina One Million Acres Efforts. The proposed conversion would result in a net gain of

1.62 acres for the Cub Creek Park, a small step toward that goal, but a valuable one in an urban area.

The SCORP also identifies a need to increase the availability of active outdoor recreational options for NC residents of all ages. The proposed conversion will use only 0.52 acre of non-developed land. No trails, ball fields, or areas planned for active use will be converted to non-recreational uses. The replacement land could be used for additional active recreational facilities.

The SCORP identifies as an action, "The Parks and Recreation Trust Fund (PARTF) will continue to make grants to state agencies and local governments to provide new capital improvements, repairs and renovation of areas and facilities." To further mitigate the impact to the park, the NCDOT has agreed to pave the park's gravel parking lot and/or the basketball courts, as needed at the time of freeway construction.

4. Completed "State Appraisal/Waiver Valuation Review form in Step 7 for each of the converted and replacement parcels certifying that the appraisals meet the "Uniform Appraisal Standards for Federal Land Acquisitions." States must retain copies of the appraisals/waiver valuations and make them available for review upon request.

Attached

- 5. For the park land proposed for conversion, a detailed description including the following:
 - a. Specific geographic location on a map, 9-digit zip code, and name of park or recreation area proposed for conversion.

Cub Creek Park is located in the northeastern portion of the Town of Wilkesboro at 206 S. Bridge Street, Wilkesboro NC 28697.

b. Description of the area proposed for the conversion including the acreage to be converted and any acreage remaining. For determining the size of the conversion, consider not only the physical footprint of the activity precipitating the conversion, but how the precipitating activity will impact the entire 6(f) park area. In many cases the size of the converted area is larger than the physical footprint. Include a description of the recreation resources, facilities, and recreation opportunities that will be impacted, displaced or lost by the proposed conversion. For proposals to partially convert a Section 6(f) park area, the remaining 6(f) park land must remain recreationally viable and not be impacted by the activities that are precipitating the conversion. If it is anticipated that the precipitating activities impact the remaining Section 6(f) area, the proposed area for the conversion should be expanded to encompass all impacted park land.

The proposed replacement site is currently defined as open space and is a young growth forested area within the 100 year floodplain associated with Cub Creek. The land area in question is positioned to the southwest of the confluence of Cub Creek stream and an unnamed waterway flowing in from the west (ref. attached maps).

The proposed replacement site contains a Wilkesboro sewer main and easement which is shown on the attached maps. A water main is located to the south of the replacement area in question, but not within the proposed replacement area. Although not within the replacement site area, there is a National Wetland Inventory site approximately 1,000 feet to the south which is also shown on the attached maps. Cub Creek Park land area is located to the north and east of the proposed replacement site. In addition and located within Cub Creek Park, the Wilkesboro Community Garden and Hidden Oaks Dog Park are located to the north of the replacement site. A recycling center, which is also contained within Cub Creek Park, is located to the east near the loop walking trail. Also notable is the ongoing Cub Creek stream restoration. The restoration of the stream as well as the riparian zones within Cub Creek Park are complete. Future planned phases of the stream restoration project are located outside the park system. The NC Fish and Wildlife Commission regularly stocks Cub Creek as part of their Hatchery Supported Trout Waters.

The replacement land area will be equal to or greater than 2.14 acres. This estimate is based on replacement of 0.51 acres (0.52 acres are protected by section 6F of the Land and Water Conservation Act of 1965) at the Bridge No. 29 project site. A small portion of right-of-way acquisition related to the Bridge No. 29 project also falls within PARTF land associated with Cub Creek Park. The PARTF land needing to be replaced was estimated at

less than 0.01 acres during discussions with NCDOT, NC Division of Parks and Recreation, and the Town of Wilkesboro.

c. Description of the community and population served by the park, including users of the park and uses.

2010 Census Population: Wilkesboro: 3,428

The Town of Wilkesboro, renowned for its scenic beauty, is located along the Yadkin River in the foothills of both the Blue Ridge Mountains and Brushy Mountains, is home to MerleFest and is the county seat of Wilkes County.

The park land and recreational opportunities provided by the Town of Wilkesboro at Cub Creek Park are utilized by Wilkesboro citizens as well as many Wilkes County residents and visitors. Cub Creek provides a multifaceted approach in terms of recreational opportunities and amenities, which include but are not limited to:

- Basketball Courts
- Baseball/softball fields
- Community Nursery
- Community Garden
- Community Dog Park
- Cub Creek Access (restored stream/creek)
- Hatchery Supported Trout Waters (NC Fish Wildlife Commission)
- Playground
- Walking Trails
- Recycling Center
- Informational Kiosks (i.e., system restoration, trout, biological systems, etc.)

2010 Census Population Wilkes County: 69,340

Nestled within the picturesque setting of the Blue Ridge Mountains, Wilkes County offers a delightful adventure for both the young and the young at heart. Located just 80 miles from Charlotte, 45 miles from Winston-Salem, 45 miles from Hickory, and 35 minutes from Boone, Wilkes County remains an ideal location for those looking to escape the fast paced world of city living, while remaining close enough to commute for a night out on the town. Wilkes County offers the best of both worlds, presented with the flair of true southern hospitality.

d. For partial conversions, a revised 6(f) map clearly indicating both the portion that is being converted and the portion remaining intact under Section 6(f).

See attached map(s)

- 6. For each proposed replacement site:
 - a. Specific geographic location on a map, 9-digit zip code, and geographical relationship of converted and replacement sites. If site will be added to an existing public park/outdoor recreation area, indicate on map.

Reference attached map for geographic location, zip code and geographical relationship to project site (Bridge No. 29 replacement). Maps also depict the existing Cub Creek Park area in green.

b. Description of the site's physical characteristics and resource attributes with number and types of resources and features on the site, for example, 15 acres wetland, 2,000 feet beachfront, 50 acres forest, scenic views, 75 acres riparian, vacant lot, special habitat, any unique or special features, structures, recreation amenities, historic/cultural resources, hazardous materials/contamination history, restrictions, institutional controls, easements, rights-of-way, overhead/underground utilities including overhead wires, towers, etc.

The proposed replacement site is currently defined as open space and is a young growth forested area within the 100 year floodplain associated with Cub Creek. The land area in

question is positioned to the southwest of the confluence of Cub Creek stream and an unnamed waterway flowing in from the west (ref. attached maps).

The proposed replacement site contains a Wilkesboro sewer main and easement which is shown on the attached maps. A water main is located to the south of the replacement area in question, but not within the proposed replacement area. Although not within the replacement site area, there is a National Wetland Inventory site approximately 1,000 feet to the south which is also shown on the attached maps. Cub Creek Park land area is located to the north and east of the proposed replacement site. In addition and located within Cub Creek Park, the Wilkesboro Community Garden and Hidden Oaks Dog Park are located to the north of the replacement site. A recycling center, which is also contained within Cub Creek Park, is located to the east near the loop walking trail. Also notable is the ongoing Cub Creek stream restoration. The restoration of the stream as well as the riparian zones within Cub Creek Park are complete. Future planned phases of the stream restoration project are located outside the park system. The NC Fish and Wildlife Commission regularly stocks Cub Creek as part of their Hatchery Supported Trout Waters.

The replacement land area will be equal to or greater than 1.7 acres. This estimate is based on replacement of 0.410 acres (0.31 acres are protected by section 6F of the Land and Water Conservation Act of 1965) at the Bridge No. 29 project site. A small portion of right-of-way acquisition related to the Bridge No. 29 project also falls within PARTF land associated with Cub Creek Park. The PARTF land needing to be replaced was estimated at less than 0.1 acres during discussions with NCDOT, NC Division of Parks and Recreation, and the Town of Wilkesboro.

c. Identification of the owner of the replacement site and its recent history of use/function up to the present.

The proposed replacement site is currently owned by Wilkes County and prior to the current ownership the land was used for agricultural purposes as part of the Call estate. The site is also located adjacent to a municipal park (Cub Creek Park). Reference attached maps for geographic relationship to Cub Creek Park land.

As indicated in the above answer 6 (b), the land is now a young growth forested area, which is also identified as 100 year floodplain on the 2009 floodplain mapping completed by the North Carolina Floodplain Mapping Program.

d. Detailed explanation of how the proposed replacement site is of reasonably equivalent usefulness and location as the property being converted, including a description of the recreation needs that will be met by the new replacement parks, populations to be served, and new outdoor recreation resources, facilities, and opportunities to be provided.

In similar fashion to the land being taken by the Bridge No. 29 project, the proposed replacement land will serve as additional land for Cub Creek Park. The following benefits demonstrate the reasonably equivalent usefulness of the proposed replacement land area:

- park open space as well as possible area for amenity expansion
- stream and fishing access for Cub Creek Hatchery Supported Waters
- future trail possibilities and connections
- protected stream and riparian zones/areas
- e. Identification of owner and manager of the new replacement park?

Ken Noland, Town Manager Town of Wilkesboro 336.838.3951 townmanager@wilkesboronorthcarolina.com

Cliff Gardener, Superintendent Town of Wilkesboro Parks and Recreation Department cell #: 336.927.3193 cgardner8804@yahoo.com f. Name of the new replacement park. If the replacement park is added to an existing public park area, will the existing area be included within the 6(f) boundary? What is the name of the existing public park area?

Yes, Cub Creek Park

g. Timeframe for completing the new outdoor recreation area(s) to replace the recreation opportunity lost per the terms of conversion approval and the date replacement park(s) will be open to the public.

The proposed replacement site should be accessible and groomed for recreational use and stream access one year after the land ownership has been transferred to the Town of Wilkesboro.

- h. New Section 6(f) map for the new replacement park.

 Reference attached maps for existing Cub Creek Park and proposed replacement site.
- 7. NEPA environmental review, including NHPA Section 106 review, for both the converted and replacement sites in the same document to analyze how the converted park land and recreational usefulness will be replaced. Except for "small" conversions (see LWCF Manual Chapter 8), conversions usually require an EA.

The proposed conversion meets the criteria for a "small conversion." Therefore, under LWCF guidelines, an Environmental Assessment is not required.

Environmental Screening Forms (ESF) for both the conversion and replacement lands are attached. No impacts are expected to result from the conversion that would exceed the "minor impacts" category.

Proceed to Steps 5 through 7



C. Proposal for a Public Facility in a Section 6(f) Area

Prior to developing this proposal, you must consult the LWCF Manual for complete guidance. In summary, NPS must review and decide on requests to construct a public indoor and/or non-recreation facility within a Section 6(f) area. In certain cases NPS may approve the construction of public facilities within a Section 6(f) area where it can be shown that there will be a net gain in **outdoor recreation** benefits and enhancements for the entire park. In most cases, development of a non-recreation public facility within a Section 6(f) area constitutes a conversion. For NPS review, the State/sponsor must submit a proposal to NPS under a letter of transmittal from the SLO that:

- 1. Describes the purpose and all proposed uses of the public facility such as types of programming, recreation activities, and special events including intended users of the new facility and any agency, organization, or other party to occupy the facility. Describe the interior and exterior of the facility, such as office space, meeting rooms, food/beverage area, residential/lodging area, classrooms, gyms, etc. Explain how the facility will be compatible with the outdoor recreation area. Explain how the facility and associated uses will significantly support and enhance existing and planned outdoor recreation resources and uses of the site, and how outdoor recreation use will remain the primary function of the site. (The public's outdoor recreation use must continue to be greater than that expected for any indoor use, unless the site is a single facility, such as a swimming pool, which virtually occupies the entire site.)
- 2. Indicates the exact location of the proposed public facility and associated activities on the site's Section 6(f) map. Explain the design and location alternatives considered for the public facility and why they were not pursued.
- 3. Explains who will own and/or operate and maintain the facility? Attach any 3rd party leases and operation and management agreements. When will the facility be open to the public? Will the facility ever be used for private functions and closed to the public? Explain any user or other fees that will be instituted, including the fee structure.
- 4. Includes required documents as a result of a completed NEPA process (Steps 5 7).



Step 4. Proposals for Temporary Non-Conforming Use, Significant Change in Use, and Sheltering Facilities (See LWCF Manual for guidance.)

A. Proposal for Temporary Non-Conforming Use

Prior to developing this proposal, you must consult the LWCF Manual for complete guidance. NPS must review and decided on requests for temporary uses that do not meet the requirements of allowable activities within a Section 6(f) area. A temporary non-conforming use is limited to a period of six months (180 days) or less. Continued use beyond six-months will not be considered temporary, and may result in a Section 6(f)(3) conversion of use requiring the replacement of converted parkland. For NPS review, describe the temporary non-conforming use (activities other than public outdoor recreation) in detail including the following information:

- 1. A letter of transmittal from the SLO recommending the proposal.
- 2. Describe in detail the proposed temporary non-conforming use and all associated activities, why it is needed, and alternative locations that were considered and why they were not pursued.
- 3. Explain length of time needed for the temporary non-conforming use and why.
- 4. Describe the size of the Section 6(f) area affected by the temporary non-conforming use activities and expected impacts to public outdoor recreation areas, facilities and opportunities. Explain efforts to keep the size of the area impacted to a minimum. Indicate the location of the non-conforming use on the site's 6(f) map.
- 5. Describe any anticipated temporary/permanent impacts to the Section 6(f) area and how the sponsor will mitigate them during and after the non-conforming use ceases.
- 6. Consult the LWCF Manual for additional requirements and guidelines before developing the proposal.

Proceed to Steps 5 through 7



B. Proposal for Significant Change in Use

Prior to developing the proposal, you must consult the LWCF Manual for complete guidance. NPS approval must be obtained prior to any change from one eligible use to another when the proposed use would significantly contravene the original plans or intent for the area outlined in the original LWCF application for federal assistance. Consult with NPS for early determination on the need for a formal review. NPS approval is only required for proposals that will **significantly** change the use of a LWCF-assisted site (e.g., from passive to active recreation). The proposal must include and address the following items:

- 1. A letter of transmittal from the SLO recommending the proposal.
- 2. Description of the proposed changes and how they significantly contravene the original plans or intent of LWCF agreements.
- 3. Explanation of the need for change in use and how the change is consistent with local plans and the SCORP.
- 4. Consult the LWCF Manual for additional requirements and guidelines before developing the proposal.

Proceed to Steps 5 through 7



C. Proposal for Sheltering Facilities

Prior to developing this proposal, you must consult the LWCF Manual for complete guidance. NPS must review and decide on all proposals to shelter an existing outdoor recreation facility or construct a new sheltered recreation facility within a Section 6(f) area regardless of funding source. The proposal must demonstrate that there is an increased benefit to public recreation opportunity. Describe the sheltering proposal in detail, including the following:

- 1. A letter of transmittal from the SLO recommending the proposal.
- 2. Describe the proposed sheltered facility, how it would operate, how the sheltered facility will include recreation uses that could typically occur outdoors, and how the primary purpose of the sheltered facility is recreation.

- 3. Explain how the sheltered facility would not substantially diminish the outdoor recreation values of the site including how the sheltered facility will be compatible and significantly supportive of the outdoor recreation resources present and/or planned.
- 4. Explain how the sheltered facility will benefit the total park's outdoor recreation use.
- 5. Describe efforts provided to the public to review the proposal to shelter the facility and has local support.
- 6. Document that the sheltered facility will be under the control and tenure of the public agency which sponsors and administers the original park area.
- 7. Consult the LWCF Manual for additional requirements and guidelines before developing the proposal.

Proceed to Steps 5 through 7



Step 5. Summary of Previous Environmental Review (including E.O. 12372 - Intergovernmental Review)

To avoid duplication of effort and unnecessary delays, describe any prior environmental review undertaken at any time and still viable for this proposal or related efforts that could be useful for understanding potential environmental impacts. Consider previous local, state, federal (e.g. HUD, EPA, USFWS, FHWA, DOT) and any other environmental reviews. At a minimum, address the following:

- 1. Date of environmental review(s), purpose for the environmental review(s) and for whom they were conducted.
- 2. Description of the proposed action and alternatives.

The replacement of Bridge No. 29 over Cub Creek studied three alternatives for replacement: replace in-place; replace on new alignment to the east; replacement on new alignment the west. The replacement to the east alternative was dropped from consideration due to the unfavorable degree of curve which would be required on the bridge, and the replace in-place was dropped due to not having an acceptable route to detour traffic, leaving only the replace to the west alternative which impacts the 6(f) property.

3. Who was involved in identifying resource impact issues and developing the proposal including the interested and affected public, government agencies, and Indian tribes.

NCDOT and the Town of Wilkesboro

- 4. Environmental resources analyzed and determination of impacts for proposed actions and alternatives.

 See attached Natural Resource Technical Report
- 5. Any mitigation measures to be part of the proposed action.

To compensate for Section 6(f) property affected by the proposed bridge replacement project, a portion of property currently owned by Wilkes County will be purchased and designated as part of Cub Creek Park.

- 6. Intergovernmental Review Process (Executive Order 12372): Does the State have an Intergovernmental Review Process? Yes _____ No __X___. If yes, has the LWCF Program been selected for review under the State Intergovernmental Review Process? Yes _____ No _____. If yes, was this proposal reviewed by the appropriate State, metropolitan, regional and local agencies, and if so, attach any information and comments received about this proposal. If proposal was not reviewed, explain why not.
- 7. Public comment periods (how long, when in the process, who was invited to comment) and agency response.

A "Project Update" postcard was mailed to residents and businesses in the area of Cub Creek Park specifying a proposed impact to Section 6(f) of the Land and Water Conservation Fund Act of 1965, as amended, properties and noting intention to seek a *de minimis* determination from FHWA for Section 4(f) of the Department of Transportation Act of 1966 impacts. The postcard requested interceded parties to comment within a 30 day period which ended at March 1, 2014. No comments were received concerning Section 6 (f) impacts.

- 8. Any formal decision and supporting reasons regarding degree of potential impacts to the human environment.

 Coordination with the Town of Wilkesboro as well as Cub Creek Park management has indicated that the proposed bridge replacement project and Section 6(f) impacts will not have a measurable degree of impact to the human environment (See appendices).

 Replacement property offers potential benefit to the human environment by offering additional recreational area and possibly bicycle trails.
- 9. Was this proposed LWCF federal action and/or any other federal actions analyzed/reviewed in any of the previous environmental reviews? If so, what was analyzed and what impacts were identified? Provide specific environmental review document references.

Nο

Use resource impact information generated during previous environmental reviews described above and from recently conducted site inspections to complete the Environmental Screening Form (ESF) portion of this PD/ESF under Step 6. Your ESF responses should indicate your proposal's potential for impacting each resource as determined in the previous environmental review(s), and include a reference to where the analysis can be found in an earlier environmental review document. If the previous environmental review documents contain proposed actions to mitigate impacts, briefly summarize the mitigation for each resource as appropriate. The appropriate references for previous environmental review document(s) must be documented on the ESF, and the actual document(s) along with this PD/ESF must be included in the submission for NPS review.

Proceed to Steps 6 through 7



Step 6. Environmental Screening Form (ESF)

This portion of the PD/ESF is a working tool used to identify the level of environmental documentation which must accompany the proposal submission to the NPS. By completing the ESF, the project sponsor is providing support for its recommendation in Step 7 that the proposal <u>either</u>:

- 1. meets criteria to be categorically excluded (CE) from further NEPA review and no additional environmental documentation is necessary; or
- 2. requires further analysis through an environmental assessment (EA) or an environmental impact statement (EIS).

An ESF alone does not constitute adequate environmental documentation unless a CE is recommended. If an EA is required, the EA process and resulting documents must be included in the proposal submission to the NPS. If an EIS may be required, the State must request NPS guidance on how to proceed.

The scope of the required environmental analysis will vary according to the type of LWCF proposal. For example, the scope for a new LWCF project will differ from the scope for a conversion. Consult the LWCF Manual for guidance on defining the scope or extent of environmental analysis needed for your LWCF proposal. As early as possible in your planning process, consider how your proposal/project may have direct, indirect and cumulative impacts on the human environment for your type of LWCF action so planners have an opportunity to design alternatives to lessen impacts on resources, if appropriate. When used as a planning tool in this way, the ESF responses may change as the proposal is revised until it is ready for submission for federal review. Initiating or completing environmental analysis after a decision has been made is contrary to both the spirit and letter of the law of the NEPA.

The ESF should be completed with input from resource experts and in consultation with relevant local, state, tribal and federal governments, as applicable. The interested and affected public should be notified of the proposal and be invited to participate in scoping out the proposal (see LWCF Manual Chapter 4). At a minimum, a site inspection of the affected area must be conducted by individuals who are familiar with the type of affected resources, possess the ability to identify potential resource impacts, and to know when to seek additional data when needed.

At the time of proposal submission to NPS for federal review, the completed ESF must justify the NEPA pathway that was followed: CE recommendation, production of an EA, or production of an EIS. The resource topics and issues identified on the ESF for this proposal must be presented and analyzed in an attached EA/EIS. Consult the LWCF Manual for further guidance on LWCF and NEPA.

The ESF contains two parts that must be completed:

Part A. Environmental Resources

Part B. Mandatory Criteria

Part A: For each environmental resource topic, choose an impact estimate level (none, negligible, minor, exceeds minor) that describes the degree of potential <u>negative</u> impact for each listed resource that may occur directly, indirectly and cumulatively as a result of federal approval of your proposal. For each impacted resource provide a brief explanation of how the resource might be affected, how the impact level was determined, and why the chosen impact level is appropriate. If an environmental review has already been conducted on your proposal and is still viable, include the citation including any planned mitigation for each applicable resource, and choose an impact level as mitigated. If the resource does not apply to your proposal, mark NA in the first column. Add any relevant resources (see A.24 on the ESF) if not included in the list.

<u>Use a separate sheet</u> to briefly clarify how each resource could be adversely impacted; any direct, indirect, and <u>cumulative impacts that may occur</u>; and any additional data that still needs to be determined. Also explain any planned mitigation already addressed in previous environmental reviews.

Part B: This is a list of mandatory impact criteria that preclude the use of categorical exclusions. If you answer "yes" or "maybe" for any of the mandatory criteria, you must develop an EA or EIS regardless of your answers in Part A. Explain all "yes" and "maybe" answers on a separate sheet.

For conversions, complete one ESF for each of the converted and replacement sites.

Environmental Screening Form for converted property

A. ENVIRONMENTAL RESOURCES Indicate potential for adverse impacts. Use a separate sheet to clarify responses per instructions for Part A on page 9.	Not Applicable- Resource does not exist	No/Negligible Impacts- Exists but no or negligible impacts	Minor Impacts	Impacts Exceed Minor EA/EIS required	More Data Needed to Determine Degree of Impact EA/EIS required
1. Geological resources: soils, bedrock, slopes, streambeds, landforms, etc.	X				
2. Air quality	X				
3. Sound (noise impacts)	Х				
4. Water quality/quantity	Х				
5. Stream flow characteristics	Х				
6. Marine/estuarine	Х				
7. Floodplains/wetlands	Х				
8. Land use/ownership patterns; property values; community livability	Х				
9. Circulation, transportation		Х			
10. Plant/animal/fish species of special concern and habitat; state/ federal listed or proposed for listing	Х				
11. Unique ecosystems, such as biosphere reserves, World Heritage sites, old growth forests, etc.	х				
12. Unique or important wildlife/ wildlife habitat	х				
13. Unique or important fish/habitat	Х				
14. Introduce or promote invasive species (plant or animal)	Х				
15. Recreation resources, land, parks, open space, conservation areas, rec. trails, facilities, services, opportunities, public access, etc. <u>Most conversions</u> exceed minor impacts. See Step 3.B		x			
16. Accessibility for populations with disabilities	Х				
17. Overall aesthetics, special characteristics/features	Х				

18. Historical/cultural resources, including landscapes, ethnographic, archeological, structures, etc. Attach SHPO/THPO determination.	х		
19. Socioeconomics, including employment, occupation, income changes, tax base, infrastructure	х		
20. Minority and low-income populations	Х		
21. Energy resources (geothermal, fossil fuels, etc.)	Х		
22. Other agency or tribal land use plans or policies	Х		
23. Land/structures with history of contamination/hazardous materials even if remediated	х		
24. Other important environmental resources to address.	х		

Environmental Screening Form for converted property – continued

- A-9 The Section 6(f) property proposed to be converted from Cub Creek Park property to NCDOT Rightof-Way is currently not being used, nor functioning, as property contributing to the function of the park. This is property formerly converted for park use, but has never been developed.
- A-15 The property being converted from Cub Creek Park to NCDOT Right-of Way does not contain recreational resources, conversation areas, recreational trail, facilities, or service. Area proposed to be converted contains only park land which could also be considered open space, and could be considered public access via short cut from the town sidewalk to the park entrance. The area impacted by the conversion is minimal in comparison to the size of the park; therefore, is considered to be negligible. FHWA has agreed that the same area of park should be considered as a de minimis impact as it applies to Section 4(f) of the Department of Transportation Act of 1966.

Environmental Screening Form for replacement property

A. ENVIRONMENTAL RESOURCES Indicate potential for adverse impacts. Use a separate sheet to clarify responses per instructions for Part A on page 9.	Not Applicable- Resource does not exist	No/Negligible Impacts- Exists but no or negligible impacts	Minor Impacts	Impacts Exceed Minor EA/EIS required	More Data Needed to Determine Degree of Impact EA/EIS required
1. Geological resources: soils, bedrock, slopes, streambeds, landforms, etc.	Х				
2. Air quality	Х				
3. Sound (noise impacts)	Х				
4. Water quality/quantity	X				
Stream flow characteristics	X				
6. Marine/estuarine	X				
7. Floodplains/wetlands	X				
8. Land use/ownership patterns; property values; community livability	X				
9. Circulation, transportation	Х				
10. Plant/animal/fish species of special concern and habitat; state/ federal listed or proposed for listing	х				
11. Unique ecosystems, such as biosphere reserves, World Heritage sites, old growth forests, etc.	x				
12. Unique or important wildlife/ wildlife habitat	Х				
13. Unique or important fish/habitat	Х				
14. Introduce or promote invasive species (plant or animal)	Х				
15. Recreation resources, land, parks, open space, conservation areas, rec. trails, facilities, services, opportunities, public access, etc. <i>Most conversions</i> exceed minor impacts. See Step 3.B	х				
16. Accessibility for populations with disabilities	X				
17. Overall aesthetics, special characteristics/features	Х				
18. Historical/cultural resources, including landscapes, ethnographic, archeological, structures, etc. Attach SHPO/THPO determination.	х				
19. Socioeconomics, including employment, occupation, income changes, tax base, infrastructure	Х				
20. Minority and low-income populations	X				
21. Energy resources (geothermal, fossil fuels, etc.)	Х				
22. Other agency or tribal land use plans or policies	Х				
23. Land/structures with history of contamination/hazardous materials even if remediated	х				
24. Other important environmental resources to address.	х				

B. MANDATORY CRITERIA If your LWCF proposal is approved, would it	Yes	No	To be determined
Have significant impacts on public health or safety?		Х	
2. Have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation, or refuge lands, wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (E.O. 11990);		х	
floodplains (E.O 11988); and other ecologically significant or critical areas. 3. Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA section 102(2)(E)]?		X	
4. Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks?		Х	
5. Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?		Х	
6. Have a direct relationship to other actions with individually insignificant, but cumulatively significant, environmental effects?		Х	
7. Have significant impacts on properties listed or eligible for listing on the National Register of Historic Places, as determined by either the bureau or office.(Attach SHPO/THPO Comments)		X	
8. Have significant impacts on species listed or proposed to be listed on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species.		Х	
9. Violate a federal law, or a state, local, or tribal law or requirement imposed for the protection of the environment?		Х	
10. Have a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898)?		Х	
11. Limit access to and ceremonial use of Indian sacred sites on federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007)?		Х	
12. Contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area, or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112)?		Х	

Environmental Reviewers

1.

The following individual(s) provided input in the completion of the environmental screening form. List all reviewers including name, title, agency, field of expertise. Keep all environmental review records and data on this proposal in state compliance file for any future program review and/or audit. The ESF may be completed as part of a LWCF pre-award site inspection if conducted in time to contribute to the environmental review process for the proposal.

- 1. Kenneth Nowland; Town of Wilkesboro Town Manager
- 2. LuAnn Bryan; NC Division of Parks and Recreation / NCSU -Recreation Resources Service agent 3.

The following individuals conducted a site inspection to verify field conditions.

List name of inspector(s), title, agency, and date(s) of inspection.

2.	
3.	
State may require signature of LWCF sub-recipient applicant here:	Date

Step 7. Recommended NEPA Pathway and State Appraisal/Waiver Valuation

First, consult the attached list of "Categorical Exclusions (CEs) for Which a Record is Needed." If you find your action in the CE list **and** you have determined in Step 6A that impacts will be minor or less for each applicable environmental resource on the ESF **and** you answered "no" to all of the "Mandatory Criteria" questions in Step 6B, the proposal qualifies for a CE. Complete the following "State LWCF Environmental Recommendations" box indicating the CE recommendation.

If you find your action in the CE list **and** you have determined in Step 6A that impacts will be greater than minor or that more data is needed for any of the resources **and** you answered "no" to all of the "Mandatory Criteria" questions, your environmental review team may choose to do additional analysis to determine the context, duration, and intensity of the impacts of your project or may wish to revise the proposal to minimize impacts to meet the CE criteria. If impacts remain at the greater than minor level, the State/sponsor must prepare an EA for the proposal. Complete the following "State Environmental Recommendations" box indicating the need for an EA.

If you do not find your action in the CE list, regardless of your answers in Step 6, you must prepare an EA or EIS. Complete the following "State Environmental Recommendations" box indicating the need for an EA or EIS.

	State NEPA Pat	thway Recommendation	
knowledge, the (PD/ESF) is acc are stored in the environmental in am familiar, I re	information provided in this LW curate based on available resounce state's NEPA file for this prompact information for this LWC commend the following LWCF N		ironmental Screening Form ts and inspector signatures west. On the basis of the
X This	s proposal qualifies for a Catego	rical Exclusion (CE).	
	Explanation:		
		ental Assessment (EA) which is atta onsor in accordance with the LWCF	
☐ This	proposal may require an Enviro	onmental Impact Statement (EIS). N	IPS guidance
is re	equested per the LWCF Program	n Manual.	
ı		Complete for each LWCF appraisal or waive	er valuation.
Property addre	ss:	Date of appraisal transmittal	letter/waiver:
Real property v	value: \$	Effective date of value:	
I certify that:		aiser has <u>reviewed</u> the appraisal and th the Uniform Appraisal Standards OR	
	the State has reviewed and ag	oproved a <u>waiver valuation</u> for this p	roperty per
	49 CFR 24.102(c)(2)(ii).		
SLO/ASLO Original	Signature:	[Date:
Typed	Name,	Title,	Agency:

National Environmental Policy Act National Park Service-Land and Water Conservation Fund State Assistance Program Categorical Exclusions for Which a Record is Needed

Note: The following are the NEPA Categorical Exclusions approved for use with all NPS programs. <u>Only the unshaded categories apply to LWCF proposals</u>. Before selecting a categorical exclusion (CE), complete the PD/ESF for the LWCF proposal to support the CE selection.

A. Actions related to general administration

- (1) Changes or amendments to an approved action when such changes would cause no environmental impact. *LWCF actions that are covered include amendments for:*
 - time extensions with no change in project scope or with a reduction in project scope;
 - -deleting work and no other work is added back into the project scope;
 - -changing project cost with no change in project scope or with a reduction in project scope;
 - -making administrative changes that do not affect project scope.

F. Actions related to grant programs

- (1) Proposed actions essentially the same as those listed in paragraphs A-E above *not shaded in gray*.
- (2) Grants for acquisition to areas that will continue in the same use or lower density use with no additional disturbance to the natural setting or type of use.
- (3) Grants for replacement or renovation of facilities at their same location without altering the kind and amount of recreational, historical, or cultural resources of the area or the integrity of the existing setting.
- (4) Grants for construction of facilities on lands acquired under a previous NPS or other federal grant, provided that the development is in accord with plans submitted with the acquisition grant, and that environmental documents have been completed on the impacts of the proposal funded by the original grant.
- (5) Grants for the construction of new facilities within an existing park or recreation area, provided that the facilities will not:
 - (a) conflict with adjacent ownerships or land use, or cause a nuisance to adjacent owners or occupants, such as would happen if use were extended beyond daylight hours.
 - (b) introduce motorized recreation vehicles, including off-road vehicles, personal water craft, and snowmobiles.
 - (c) introduce active recreation pursuits into a passive recreation area.
 - (d) increase public use or introduce non-compatible uses to the extent of compromising the nature and character of the property or causing physical damage to it.
 - (e) add or alter access to the park from the surrounding area.



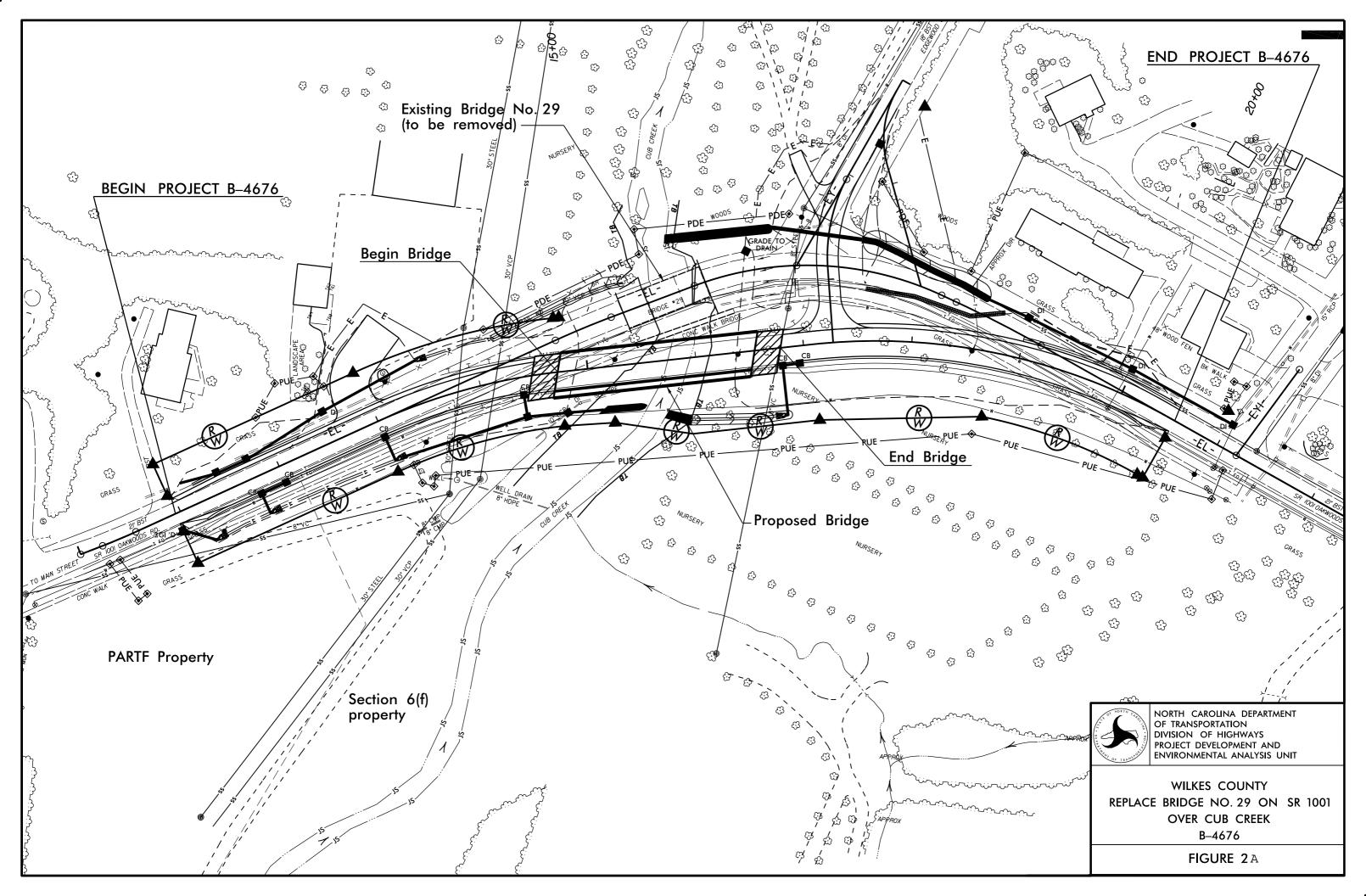
WILKES COUNTY STIP PROJECT B-4676

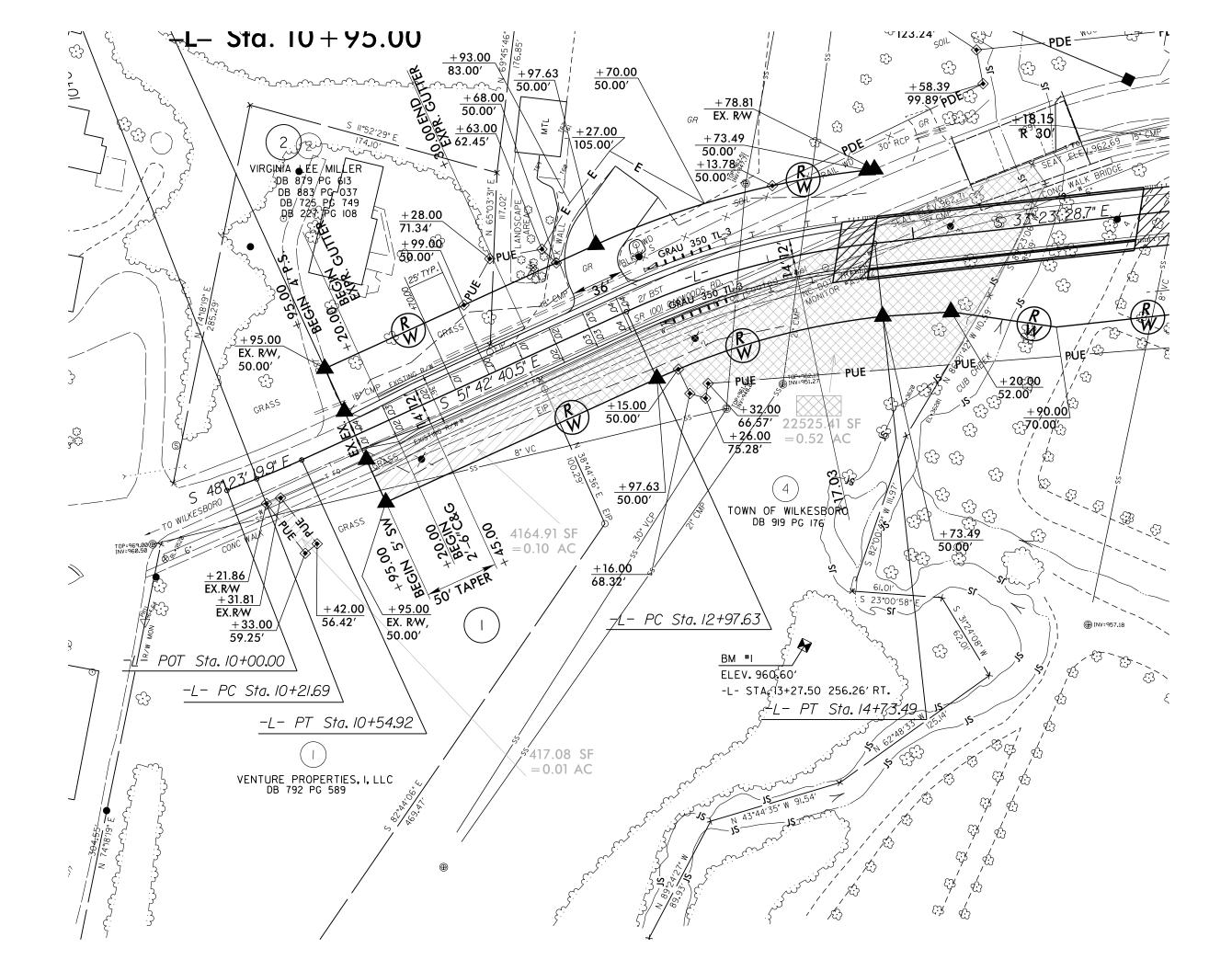
33831.1.1

Date: SEPTEMBER 2012

Figure

2





NATURAL RESOURCES TECHNICAL REPORT UPDATE

Replace Bridge 29 on SR 1001 (Oakwoods Road) over Cub Creek Wilkes County, North Carolina

TIP B-4676 Federal Aid Project No. BRZ -1001(29) WBS Element No. 33831.1.1



THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Project Development and Environmental Analysis Branch Natural Environment Unit

August 2011

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1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge number 29 on SR 1001 (Oakwoods Road) over Cub Creek (TIP B-4676) in Wilkes County (Figure 1). A Natural Resources Technical Report (NRTR) was originally completed for this project in May 2006. Since then, the width of the study area has been reduced, but the northern limits have been expanded to the intersection of SR 1001 and NC 18/268 (Main Street). The following NRTR Update addresses this new study area in its entirety, and replaces the 2006 NRTR. This update has been prepared to assist in the preparation of a Categorical Exclusion (CE) for the proposed project.

2.0 METHODOLOGY AND QUALIFICATIONS

All work was conducted in accordance with the NCDOT Natural Environment Unit standard operating procedures and December 2010 NRTR template. Field work was conducted on June 28, 2011. Verification of jurisdictional areas within the study area by the U.S. Army Corps of Engineers (USACE) and North Carolina Division of Water Quality (NCDWQ) is not needed at this time as there is only one perennial stream. A jurisdictional determination for this project will be obtained at the time of permitting. The principal person contributing to this document was:

Principal

Investigator: Erin K. Cheely

Education: B.S. Biology, Winthrop University, 2002

Experience: Environmental Specialist, NCDOT, June 2006 – Present.

Research Technician, NC State University, March 2004 – May 2006. Environmental Specialist, FL Department of Environmental Protection,

July 2002 – July 2003.

Responsibilities: Document preparation, stream and wetland assessment, natural

communities and T/E species assessment

Additional personnel who contributed to portions of the field work and/or documentation for this project were Jennifer Harrod and Jeremy Leamer. Appendix C lists the qualifications of these contributors.

3.0 PHYSICAL RESOURCES

The study area lies in the northern mountains physiographic region of North Carolina (Figure 2). Topography in the project vicinity is comprised of gently rolling hills with narrow, level floodplains along most streams and a more substantial floodplain along the Yadkin River. Elevations in the study area range from 950 to 1050 ft. above sea level. Land use in the project vicinity consists primarily of residential and industrial development interspersed with forestland and some agriculture.

3.1 Soils

The Wilkes County Soil Survey identifies six soil types within the study area (Table 1).

Table 1. Soils in the study area.

Soil Series	Mapping Unit	Drainage Class	Hydric Status
Dan River and Comus soils	DaA	Well Drained	Nonhydric
Danripple sandy clay loam	DpC2	Well Drained	Nonhydric
Danripple-Irban land complex	DuC	Well Drained	Nonhydric
Fairview-Urban land complex	FrC	Well Drained	Nonhydric
Rhodhiss fine sandy loam	RdE	Well Drained	Nonhydric
Udorthents-Urban land complex	UfB	Well Drained	Nonhydric

3.2 Water Resources

Water resources in the study area are part of the Yadkin River basin [U.S. Geological Survey (USGS) Hydrologic Unit 03040101]. One stream was identified in the study area (Table 2). The location of this water resource is shown in Figure 3. The physical characteristics of this stream is provided in Table 3.

Table 2. Water resources in the study area.

Stream Name	Map ID	NCDWQ Index Number	Best Usage Classification	
Cub Creek	Cub Creek	12-41	С	

Table 3. Physical characteristics of water resources in the study area.

Map ID	Bank Height (ft)	Bankful Width (ft)	Water Depth (in)	Channel Substrate	Velocity	Clarity
Cub Creek	8-10	20	12	Sand, Gravel	Fast	Slightly Turbid

There are no designated High Quality Waters (HQW), Outstanding Resource Waters (ORW) or water supply watersheds (WS-I or WS-II) within 1.0 mile downstream of the study area. Cub Creek is not designated as a North Carolina Wildlife Resources Commission (WRC) trout stream. The North Carolina 2010 Final 303(d) list does not identify Cub Creek as an impaired water and there are no 303(d) stream within 1.0 mile of the study area.

No recent fish or benthic surveys have been conducted within 1.0 mile of the project area

4.0 BIOTIC RESOURCES

4.1 Terrestrial Communities

Two terrestrial communities were identified in the study area: maintained/disturbed and alluvial forest. Figure 3 shows the location and extent of these terrestrial communities in the study area. A brief description of each community type follows. Scientific names of all species identified are included in Appendix B.

4.1.1 Maintained/Disturbed

The majority of the study area consists of habitat that is considered maintained/disturbed where the vegetation is periodically mowed, such as roadside shoulders and residential lawns. The vegetation in this community is comprised of low growing grasses and herbs with some small trees and shrubs, including fescue, white clover, wild onion, plantain, wood sorrel, wooly mullein, morning glory, wingstem, Japanese stilt grass, Japanese honeysuckle, greenbriar, English ivy, Virginia creeper, kudzu, smartweed, poison ivy, pokeweed, Chinese privet, tree-of-heaven, redbud, silver maple, eastern red cedar, honey locust, American sycamore, red maple, dogwood, box elder, tulip poplar and black walnut.

4.1.2 Alluvial Forest

The alluvial forest community occurs along the floodplain of Cub Creek where periodic overbank flooding occurs. The canopy consists of moderately well-developed trees including tulip poplar, American sycamore, black walnut, red maple and box elder. The sapling and understory layer consists of black cherry, blackberry, grapevine, trumpet creeper, jewelweed, wingstem, deer tongue and Queene Anne's lace.

4.1.3 Terrestrial Community Impacts

Terrestrial communities in the study area may be impacted by project construction as a result of grading and paving of portions of the study area. At this time, decisions regarding the final location and design of the proposed bridge replacement have not been made. Therefore, community data are presented in the context of total coverage of each type within the study area (Table 4). Once a final alignment and preliminary design have been determined, probable impacts to each community type will be calculated.

Table 4. Coverage of terrestrial communities in the study area.

Community	Coverage (ac.)		
Maintained/ Disturbed	9.4		
Alluvial Forest	0.4		
Total	9.8		

4.2 Terrestrial Wildlife

Terrestrial communities in the study area are comprised of both natural and disturbed habitats that may support a diversity of wildlife species (those species actually observed are indicated with *). Mammal species that commonly exploit forested habitats and stream corridors found within the study area include species such as eastern cottontail, raccoon, Virginia opossum, gray squirrel and white-tailed deer. Birds that commonly use maintained and forest edge habitats include the American crow*, blue jay*, American robin*, Carolina chickadee, tufted titmouse, northern cardinal* and prairie warbler*. Reptile and amphibian species that may use terrestrial communities located in the study area include the eastern garter snake, black rat snake, eastern box turtle and dusky salamander.

4.3 Aquatic Communities

Aquatic communities in the study area consist of a single perennial stream, Cub Creek. Cub Creek in the study area could support animals such as crayfish, bluehead chub, central stoneroller, rosyside dace, piedmont darter, swallowtail shiner, green sunfish, northern water snake, green frog and spring peeper.

4.4 Invasive Species

Six species from the NCDOT Invasive Exotic Plant List for North Carolina were found to occur in the study area. The species identified were Chinese privet (Threat), Japanese honeysuckle (Moderate Threat), Japanese stilt grass (Threat), kudzu (Threat), tree-of-heaven (Threat) and English ivy (Moderate Threat). NCDOT will manage invasive plant species as appropriate.

5.0 JURISDICTIONAL ISSUES

5.1 Clean Water Act Waters of the U.S.

One jurisdictional stream was identified in the study area (Table 5). The location of this stream is shown on Figure 3. The physical characteristics and water quality designations of this jurisdictional stream are detailed in Section 3.2. Within the study area, Cub Creek has been designated as a cool water stream for the purposes of stream mitigation.

Table 5. Jurisdictional characteristics of water resources in the study area.

Map ID	Length (ft.)	Classification	Compensatory Mitigation Required	River Basin Buffer	
Cub Creek	395	Perennial	Yes	Not Subject	
Total	395			_	

No jurisdictional wetlands were identified within the study area

5.2 Clean Water Act Permits

The proposed project has been designated as a Categorical Exclusion (CE) for the purposes of National Environmental Policy Act (NEPA) documentation. As a result, a Nationwide Permit (NWP) 23 will likely be applicable. A NWP No. 33 may also apply for temporary construction activities such as stream dewatering, work bridges, or temporary causeways that are often used during bridge construction or rehabilitation. The USACE holds the final discretion as to what permit will be required to authorize project construction. If a Section 404 permit is required then a Section 401 Water Quality Certification (WQC) from the NCDWQ will be needed.

5.3 Construction Moratoria

In a letter dated October 27, 2005, the NCWRC identified no special concerns for Cub Creek. Therefore, no moratoria are anticipated for this project.

5.4 N.C. River Basin Buffer Rules

Cub Creek is not located within any of the NCDWQ River Basins with required buffer rules.

5.5 Rivers and Harbors Act Section 10 Navigable Waters

Cub Creek is not considered Navigable Waters under Section 10 of the Rivers and Harbors Act, per communication with the USACE Asheville Regional Office.

5.6 Wetland and Stream Mitigation

5.6.1 Avoidance and Minimization of Impacts

The NCDOT will attempt to avoid and minimize impacts to streams and wetlands to the greatest extent practicable in choosing a preferred alternative and during project design. At this time, no final decisions have been made with regard to the location or design of the preferred alternative.

5.6.2 Compensatory Mitigation of Impacts

The NCDOT will investigate potential on-site stream and wetland mitigation opportunities once a final decision has been rendered on the location of the preferred

alternative. If on-site mitigation is not feasible, mitigation will be provided by North Carolina Department of Environment and Natural Resources Ecosystem Enhancement Program (EEP).

5.7 Endangered Species Act Protected Species

As of September 22, 2010 the United States Fish and Wildlife (USFWS) lists one federally protected species for Wilkes County (Table 6). A brief description of this species' habitat requirements follows, along with the Biological Conclusion rendered based on survey results in the study area. Habitat requirements for this species are based on the current best available information from referenced literature and/or USFWS.

Table 6. Federally protected species listed for Wilkes County.

Scientific Name	Common Name	Federal Status	Habitat Present	Biological Conclusion
Glyptemys muhlenbergii	Bog turtle	T(S/A)	No	Not Required

T(S/A) - Threatened due to similarity of appearance

Bog turtle

USFWS optimal survey window: April 1 – October 1 (visual surveys); April 1-June 15 (optimal for breeding/nesting); May 1-June 30 (trapping surveys)

Habitat Description: Bog turtle habitat consists of open, groundwater supplied (springfed), graminoid dominated wetlands along riparian corridors or on seepage slopes. These habitats are designated as mountain bogs by the NCNHP, but they are technically poor, moderate, or rich fens that may be associated with wet pastures and old drainage ditches that have saturated muddy substrates with open canopies. Plants found in bog turtle habitat include sedges, rushes, marsh ferns, herbs, shrubs (tag alder, hardhack, blueberry, etc.), and wetland tree species (red maple and silky willow). These habitats often support sphagnum moss and may contain carnivorous plants (sundews and pitcherplants) and rare orchids. Potential habitats may be found in western Piedmont and Mountain counties from 700 to 4500 feet elevation in North Carolina. Soil types (poorly drained silt loams) from which bog turtle habitats have been found include Arkaqua, Chewacla, Dellwood, Codorus complex, Hatboro, Nikwasi, Potomac - Iotla complex, Reddies, Rosman, Tate - Cullowhee complex, Toxaway, Tuckasegee -Cullasaja complex, Tusquitee, Watauga, and Wehadkee.

Biological Conclusion: Not Required

Species listed as threatened due to similarity of appearance do not require Section 7 consultation with the USFWS. However, this project is not expected to affect the bog turtle because no suitable habitat (in the form of wetlands or wet areas) is present within the study area. A review of NCNHP records on August 1, 2011 indicates no known bog turtle occurrence within 1.0 mile of the study area.

5.8 Bald Eagle and Golden Eagle Protection Act

Habitat for the bald eagle primarily consists of mature forest in proximity to large bodies of open water for foraging. Large, dominant trees are utilized for nesting sites, typically within 1.0 mile of open water. There are no large bodies of open water within 1.0 mile of the project study area. Suitable habitat for bald eagle does not exist within the project study area. Additionally, a review of the NCNHP database on August 1, 2011 revealed no known occurrences of this species within 1.0 mile of the project study area. Due to the lack of habitat, known occurrences, and minimal impact anticipated for this project, it has been determined that this project will not affect this species.

5.9 Endangered Species Act Candidate Species

As of September 22, 2010 the USFWS lists no Candidate species for Wilkes County.

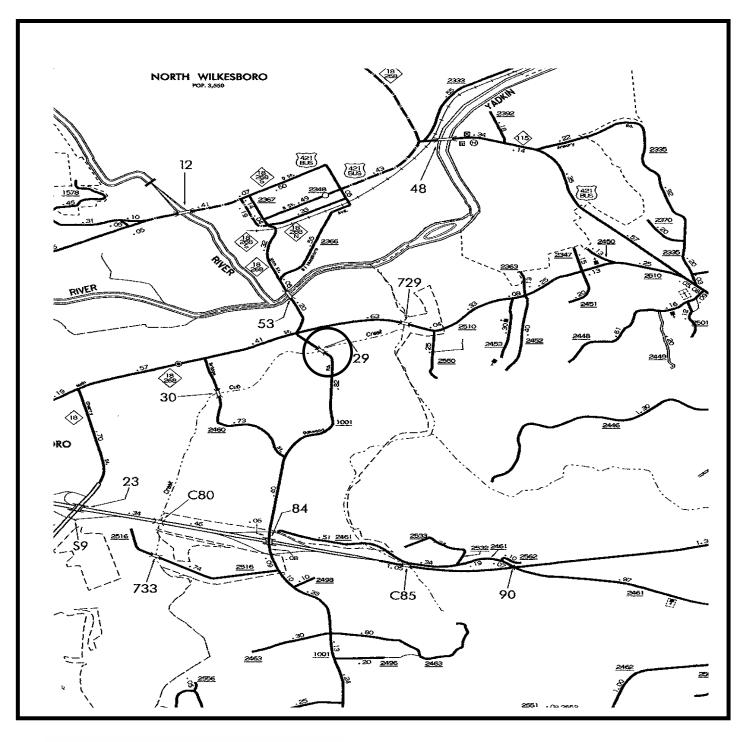
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Appendix A

Figures





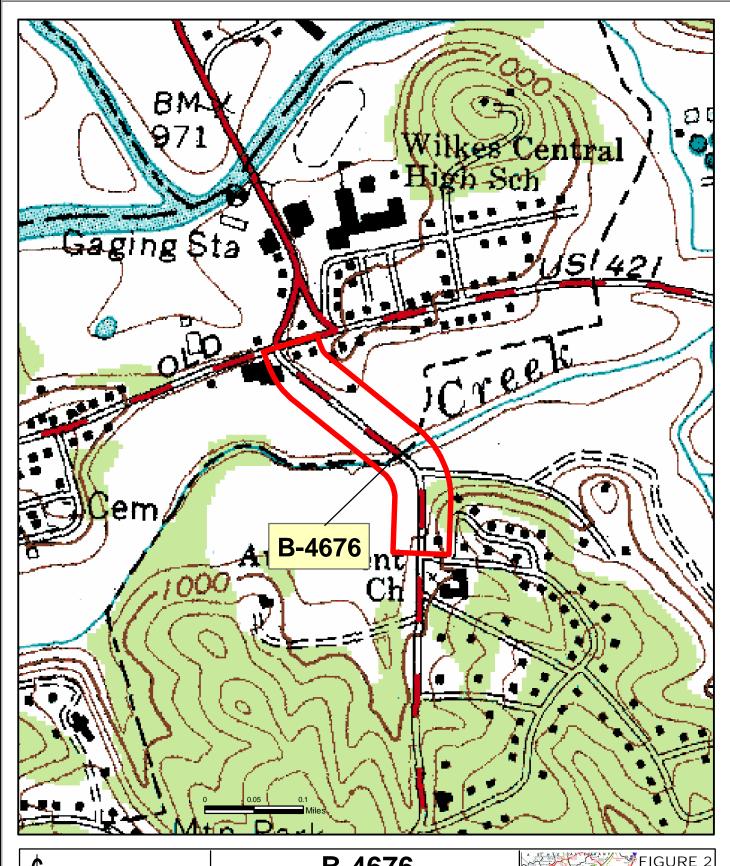


NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROJECT DEVELOPMENT & ENVIRONMENTAL ANALYSIS BRANCH

WILKES COUNTY
REPLACE BRIDGE NO. 29 ON SR 1001
OVER CUB CREEK
B-4676

Vicinity Map

Figure 1

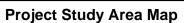




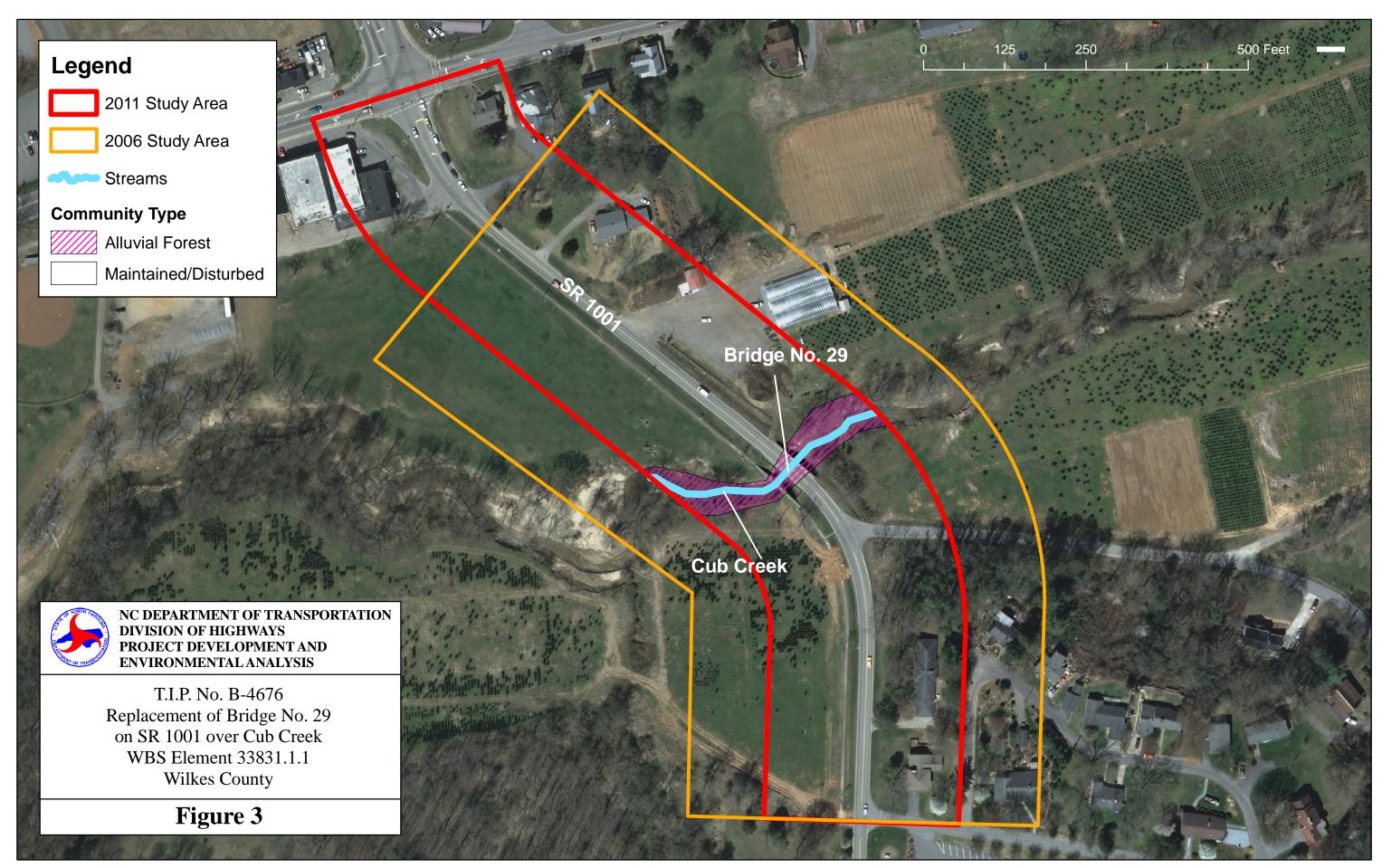
B-4676

Wilkes County

Replacement of Bridge No. 29 over Cub Creek on SR 1001 (Oakwoods Road)







Jurisdictional Features and Terrestrial Communities Map

Appendix B

Scientific Names of Species Identified in Report

Plants

Common NameScientific NameAmerican sycamorePlatanus occidentalisBlack cherryPrunus serotinaBlack walnutJuglans nigraBlackberryRubus sp.Box elderAcer negundoChinese privetLigustrum sinense

Deer tongue Dicanthelium clandestinum

Dogwood Cornus florida
Eastern red cedar Juniperus virginiana

English ivy
Fescue
Festuca sp.
Grapevine
Greenbriar

Hedera helix
Festuca sp.
Vitis sp.
Smilax spp.

Honey locust
Japanese honeysuckle
Japanese stilt grass
Jewelweed
Kudzu

Gleditsia triacanthos
Lonicera japonica
Microstegium vimineum
Impatiens capensis
Pueraria montana

Morning glory Ipomoea sp. Plantain Plantago sp.

Poison ivy Toxicodendron radicans
Pokeweed Phytolacca americana

Queen Anne's lace Daucus carota Red maple Acer rubrum Redbud Cercis canadensis Silver maple Acer saccharinum Smartweed Polygonum sp. Tree-of-heaven Ailanthus altissima Trumpet creeper Campsis radicans Tulip poplar Liriodendron tulipifera Virginia creeper Parthenocissus quinquefolia

White clover Trifolium repens
Wild onion Allium sp.
Wingstem Verbesina sp.
Wood sorrel Oxalis sp.

Wooly mullein Verbascum thapsus

Animals

<u>Common Name</u> <u>Scientific Name</u>

American crow

American robin

Black rat snake

Corvus brachyrhynchos

Turdus migratorius

Elaphe obsoleta obsoleta

Blue jay

Bluehead chub

Carolina chickadee

Central stoneroller

Cyanocitta cristata

Nocomis leptocephalus

Poecile carolinensis

Campostoma anomalum

Crayfish Cambarus sp.

Dusky salamander

Eastern box turtle

Eastern cottontail

Eastern cotton all

Eastern cotton and a substitution of the substit

Eastern garter snake Thamnophis sirtalis

Gray squirrel

Green frog

Green sunfish

Northern cardinal

Northern water snake

Sciurus carolinensis

Rana clamitans

Lepomis cyanellus

Cardinalis cardinalis

Nerodia sipedon sipedon

Piedmont darter Percina crassa
Prairie warbler Dendroica discolor
Raccoon Procyon lotor

Rosyside dace
Spring peeper
Swallowtail shiner
Tufted titmouse
Virginia opossum
White-tailed deer

Clinostomus funduloides
Pseudacris crucifer
Notropis procne
Baeolophus bicolor
Didelphis virginiana
Odocoileus virginianus

Appendix C

Qualifications of Contributors

Investigator: Jennifer Harrod, Environmental Specialist, NCDOT

Education: B.S., Fisheries and Wildlife, North Carolina State University, 2006

Experience: Environmental Specialist, NCDOT, June 2007 – present.

Park Ranger, US Army Corps of Engineers, Wake Forest, NC

June 2003 – April 2007.

Responsibilities: Stream and wetland assessment, natural communities assessment

Investigator: Jeremy T. Leamer

Education: B.S., Natural Resource Management, UNC Asheville, May 2000 Experience: Environmental Senior Technician, NCDOT, February 2007 – present.

Erosion Control Technician, Durham County Engineering, February

2005 – June, 2006.

Staff Scientist, WK Dickson, December 2003 – February 2005. Environmental Scientist, MAA, September, 2001 – November 2002.

Naturalist, Kiawah Island Resort, SC, Summer Intern, 1998.

Responsibilities: Stream and wetland assessment, natural communities assessment