

13-08-0007



ARCHAEOLOGICAL SURVEY REQUIRED FORM

This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.



PROJECT INFORMATION

Project No: **Str. #010071** County: **Alexander**
 WBS No: **17BP.12.R.46** Document: **PCE or MCC**
 F.A. No: **na** Funding: ☒ State ☐ Federal

Federal Permit Required? ☒ Yes ☐ No Permit Type: **NWP 3, NWP 14, TVA**

Project Description: NCDOT intends to replace Bridge No. 71 on SR 1338, ST. Clair Road, over Grassy Creek. The proposal calls for the replacement of the bridge in its existing location and at the existing alignment with minor changes to right-of-way (ROW). For the purposes of the current review the Area of Potential Effects (APE) is considered to extend 300 feet (91.44 meters) from either end of the bridge and 75 feet (22.86 meters) out from centerline. Thus, the APE encompasses more than 1.03 acres (approximately .42 hectares).

SUMMARY OF ARCHAEOLOGICAL RESOURCES REVIEW: ***SURVEY REQUIRED***

Brief description of review activities, results of review, and conclusions:

A review of the site maps and files archived at the North Carolina Office of State Archaeology was conducted on September 9, 2013. No previously identified archaeological resources are recorded within the APE as defined above. An examination of the soil map for Alexander County indicates that the project area is generally composed of moderately eroded upland Danripple (DpC2) and Fairview soils (FcC2 and FcD2) and frequently flooded Codorus alluvial soils (CoA). While neither of these soil types seem particularly well-suited to the preservation of archaeological deposits, the exact situation within the APE may be different. Additionally the APE contains mixed alluvial Dan River and Comus soils (DaA), which may hold more promise for buried archaeological resources. Further archaeological investigation is recommended.

SUPPORT DOCUMENTATION

See attached: ☒ Map(s) ☐ Previous Survey Info ☐ Photos ☐ Correspondence
☒ Other: NRCS web soil survey information (<http://websoilsurvey.nrcs.usda.gov/app/>)

FINDING BY NCDOT ARCHAEOLOGIST – ***SURVEY REQUIRED***

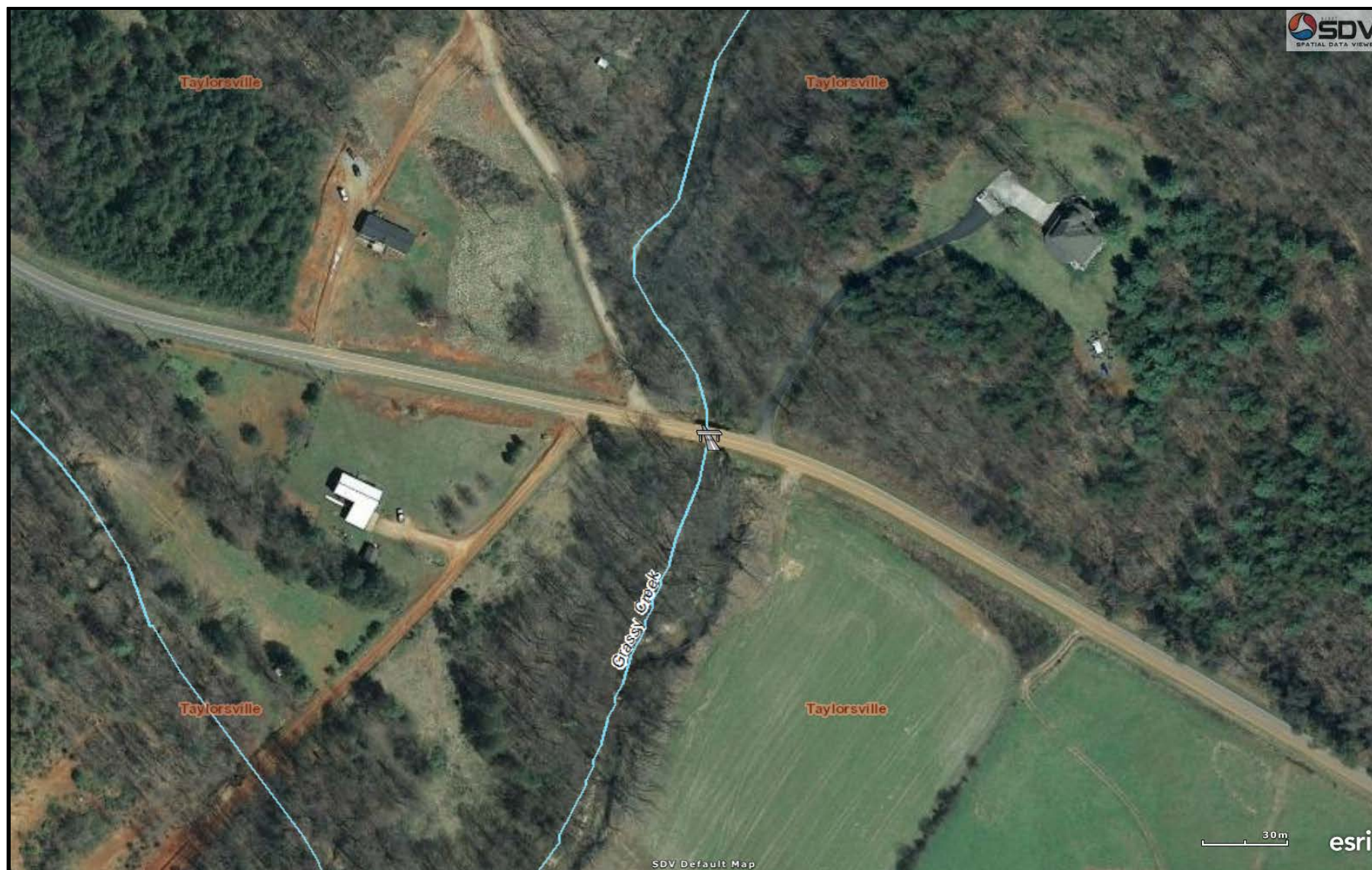
Shane C. Petersen

September 13, 2013

NCDOT ARCHAEOLOGIST

Date

Proposed fieldwork completion date



Aerial photograph of Bridge No. 71 on SR 1338, St. Clair Road, over the Grassy Creek.

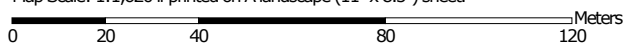


Detail of the USGS Taylorsville, NC (1970) quadrangle 7.5-minute series topographic map illustrating the project location.

Soil Map—Alexander County, North Carolina
(Bridge No. 71 on SR 1338 over Grassy Creek)



Map Scale: 1:1,620 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/13/2013
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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alexander County, North Carolina
Survey Area Data: Version 17, Aug 3, 2012

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 22, 2010—Apr 30, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Alexander County, North Carolina (NC003)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CoA	Codorus loam, 0 to 2 percent slopes, frequently flooded	0.0	0.0%
DaA	Dan River and Cornus soils, 0 to 4 percent slopes, occasionally flooded	3.5	25.9%
DpC2	Danripple sandy clay loam, 8 to 15 percent slopes, moderately eroded	2.7	20.1%
FcC2	Fairview sandy clay loam, 8 to 15 percent slopes, moderately eroded	4.1	30.5%
FcD2	Fairview sandy loam, 15 to 25 percent slopes	3.1	23.5%
Totals for Area of Interest		13.4	100.0%