

COTTON CREEK MITIGATION SITE

Monitoring Report No. 1 (2015)

9 December 2015

USACE Permit No.: SAJ-2013-00295 (NW-AWP), issued 5/31/2013

Permittee: Florida Department of Transportation, District Three
C/o Colby Cleveland
1074 Highway 90
Chipley, FL 32428

Responsible Party for Monitoring: Northwest Florida Water Management District
81 Water Management Drive
Havana, FL 32333

Date of Inspection: 11/18/2015

Summary:

The purpose of this project (Cotton Creek Mitigation Site) is to provide offsetting mitigation for 0.50 acres of wetland impacts caused by FDOT replacement of a minor bridge on Brickyard Road in Molino, Florida. At the impact site, Brickyard Road crosses an unnamed, 1st order intermittent stream that discharges to the Escambia River floodplain. Although the USACE permit authorizing the impact does not state the type of wetlands being impacted, the mitigation wetlands authorized by the permit are palustrine forested. Mitigation was implemented at Cotton Creek on the Escambia River floodplain on lands owned and managed by the NFWFMD for ecological integrity. Mitigation consisted of hydrologic enhancement of an estimated 6.49 acres of palustrine forested wetlands (FLUCCS 615 – Bottomland) via installation of one low-water-crossing on Cotton Creek Road.

Cotton Creek Road (30.78162° North, 87.31990° West) is used by the NFWFMD for land management access. From US 29 (6.7 miles north of a Tom Thumb convenience store located at the intersection of US 29 and SR 97), turn east onto Cotton Lake Road and drive 1.2 miles. Cotton Creek Road is to the right; the low-water-crossing is 0.20 miles from the Cotton Lake Road / Cotton Creek Road intersection. Although Cotton Creek Road is gated, pedestrian access is allowed by the NFWFMD at any time without notification (exercise caution during hunting season). Vehicular access, if desired, may be arranged by contacting Steve Brown, NFWFMD Land Manager (850-626-3101).

Raised above natural grade, Cotton Creek Road bisected a palustrine forested slough and disrupted natural hydrologic flows and moisture regimes. The low-water-crossing designed to enhance the hydrology of adjacent wetlands was installed in July, 2015. An inspection by NFWFMD staff on 18 November, 2015 concluded that the low-water-crossing was at the

correct elevation, was functioning as designed, and that natural hydrologic flows had been reestablished. Monitoring inspections will continue through 2020 or as directed by the USACE. In the event of failure of the low-water-crossing, remedial action will be taken.

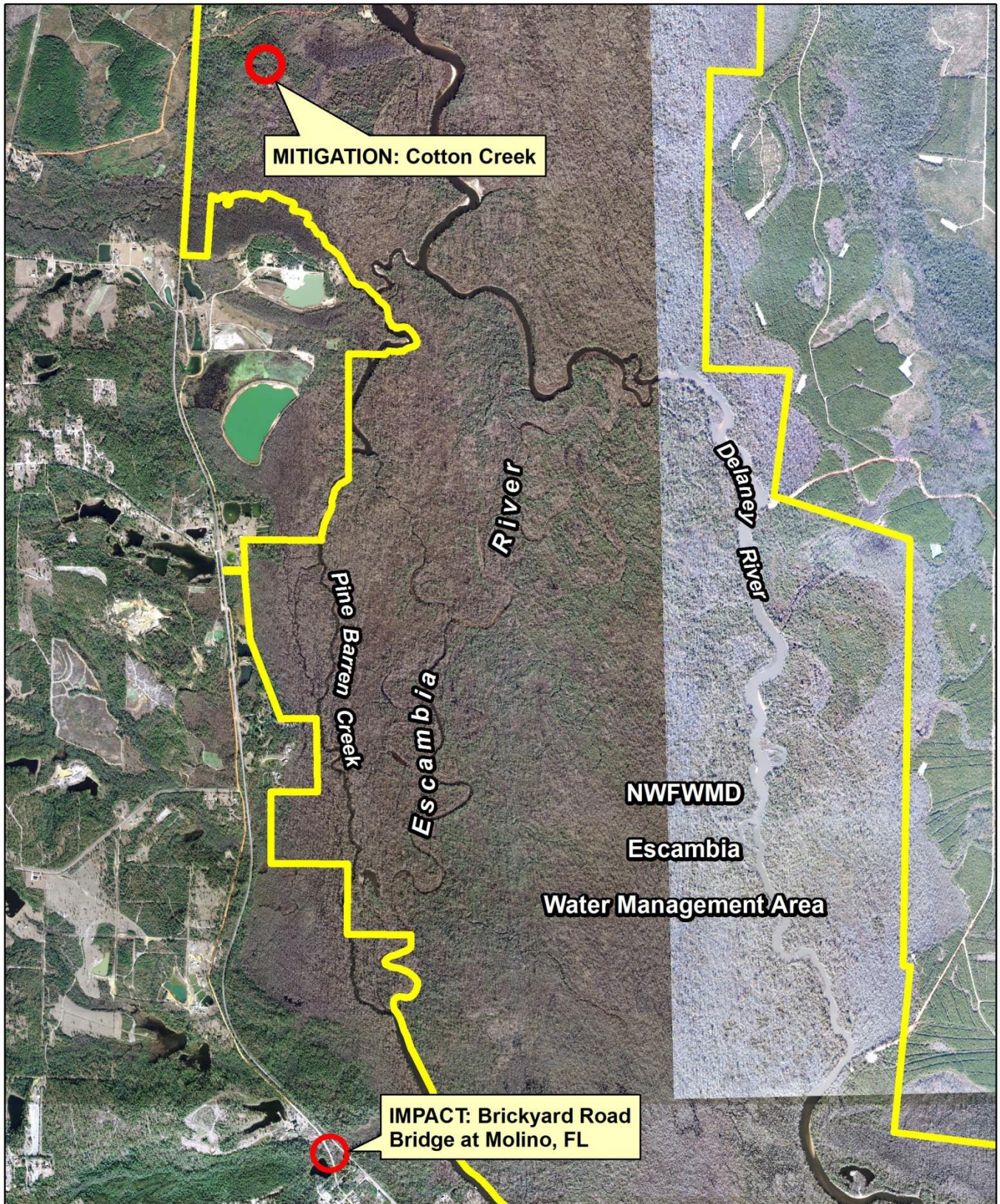
Performance Standards:

- Low-water-crossing installed at appropriate elevation [Met]
- Non-failure of low-water-crossing [Met]

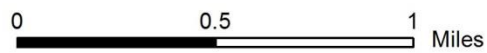
Monitoring Requirements:

- Annual inspection and photo-documentation of low-water-crossing for five years after installation of low-water-crossing (2015 – 2020).
- Annual reports submitted to the USACE for duration of monitoring and posted at the NFWFMD wetlands website.

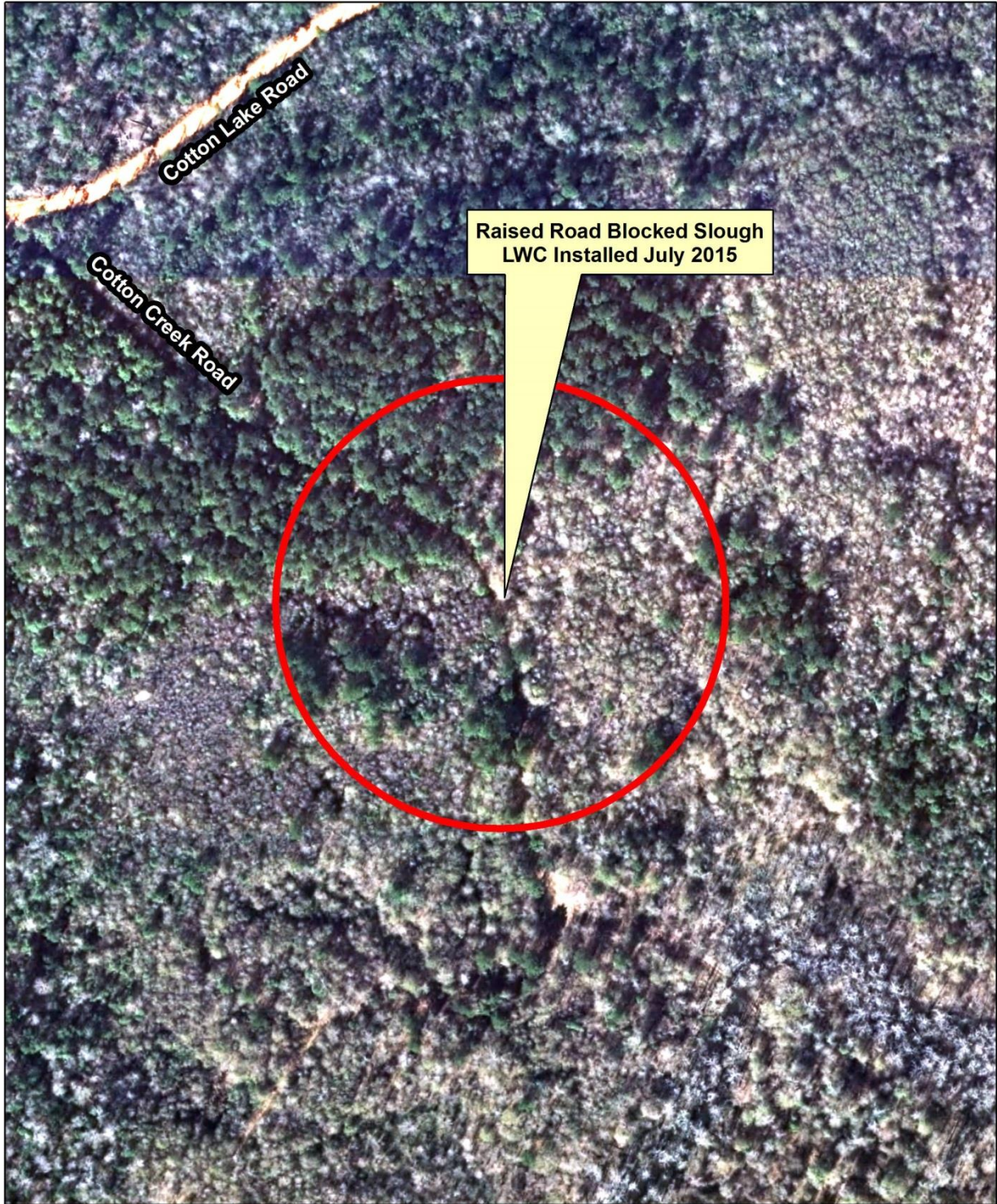
Brickyard Road Bridge at Molino and Proposed Mitigation



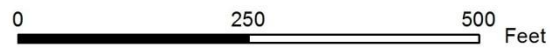
2007 DOQ



Cotton Creek Road - Low-Water-Crossing Site



2013 DOQ





Pre-construction (4/16/2013; Road Blocks Slough)



Post-construction (11/15/2015; Road at Natural Elevation of Slough)



Construction (7/9/2015)



Cotton Creek Road LWC at Natural Grade of Adjacent Wetland (11/18/2015)