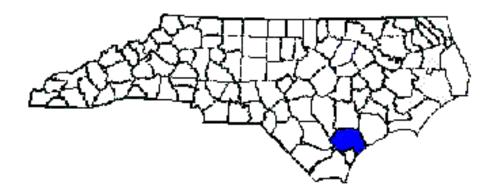
# **ANNUAL REPORT FOR 2020**



Surf City Bridge Temporary Impact Site Pender County TIP No. B-4929 CAMA Permit No. 60-16



Prepared By: Roadside Environmental Unit and Environmental Analysis Unit North Carolina Department of Transportation August 2020

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### **APPENDICES**

Appendix A – Site Photos and Site Map

### SUMMARY

The Surf City Bridge Temporary Impact Site is located in Pender County. This is an annual report for temporary impacts associated with the bridge replacement of Bridge No. 16 on NC 50-210 over the Intracoastal Waterway. The project was accepted as complete on October 4, 2019.

The temporary impacts encompass approximately 0.03 acres for roadway/bridge and 0.10 acres for utility temporary impacts from temporary fill and hand clearing in CAMA wetlands. The area that was impacted is being monitored to ensure that it re-attains wetland jurisdictional status. The areas to the North of the Intracoastal Waterway where the temporary work bridge pilings were removed and the temporary utility impact areas adjacent to NC 50-210 were planted in June 2018. All other temporary impact areas were left to re-vegetate naturally. Hydrologic monitoring is not required for this site; however, vegetation monitoring is required for three years.

After the second year of monitoring, the Surf City Bridge Temporary Impact Site shows by visual observation that the temporarily impacted areas are re-attaining jurisdictional wetland status. Site 4 (temp. work bridge impact area) at Photo Point #2 is lacking revegetation at this time.

NCDOT proposes to plant the Site 4 (temp. work bridge impact area) at Photo Point #2 with a Black Needle Rush and Smooth Cordgrass during the April to May 2021 planting window. NCDOT will continue vegetation monitoring at the Surf City Bridge Temporary Impact Site in 2021.

### 1.0 INTRODUCTION

### 1.1 **Project Description**

The Surf City Bridge Temporary Impact Site is located in Pender County at Bridge No. 16 on NC 50-210 over the Intracoastal Waterway (Figure 1). The temporary impacts encompass approximately 0.03 acres for roadway/bridge and 0.10 acres for utility temporary impacts from temporary fill and hand clearing in CAMA wetlands. The area that was impacted is being monitored to ensure that it re-attains jurisdictional wetland status. Hydrologic monitoring is not required for this site; however, vegetation monitoring is required for three years.

#### 1.2 Purpose

In order for a temporary impact site to be considered successful, a site must meet vegetation success criteria. This report details the vegetation monitoring in 2020 at the Surf City Bridge Temporary Impact Site. Hydrologic monitoring was not required for the site.

#### 1.3 Project History

June 2018	Marsh Grass Planting
September 2019	Vegetation Monitoring (Year 1)
October 2019	Project Acceptance Date
August 2020	Vegetation Monitoring (Year 2)

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### 1.4 Debit Ledger

The restoration of the Surf City Bridge temporary impact site was used entirely to compensate for temporary impacts on the B-4929 project. There were no wetland mitigation credits generated from the restoration of the impacted area.

# 2.0 VEGETATION: SURF CITY BRIDGE TEMPORARY IMPACT SITE (YEAR 2 MONITORING)

### 2.1 Success Criteria

### CAMA Condition #25

Due to the possibility that shading, compaction, hand clearing, mechanized clearing, excavation, and/or other site alterations might prevent the temporary Coastal Wetland impacts from re-attaining pre-project wetland functions, the permittee shall provide an annual update on the Coastal Wetland areas temporarily impacted by this project. This annual update shall consist of photographs and a brief written report on the progress of these temporarily impacted areas in re-attaining their pre-project functions. The permittee shall schedule a meeting with DCM to verify the extent and location of the temporary impacts upon project completion. Within three years after project completion, the permittee shall hold another agency field meeting with DCM to determine if the Coastal Wetland areas temporarily impacted by this project have re-attained pre-project wetland functions, DCM will determine whether compensatory mitigation shall be required for these impacts.

### 2.2 Description of Species

The following wetland species were planted in the temporary impact areas to the North of the Intracoastal Waterway:

Juncus roemerianus, Black Needle Rush

Spartina alterniflora, Smooth Cordgrass

### 2.3 Results of Vegetation Monitoring

The temporary impacted area where the temporary impacts occurred is re-attaining wetland jurisdictional status, the planted marsh grass is surviving, and marsh grass is re-vegetating throughout the temporary impact areas. Site 4 (temporary work bridge area) at Photo Point #2 is lacking re-vegetation at this time. Other species noted within the temporary impacted areas included cattail, *Spartina patens*, glasswort, saltgrass, *Juncus* sp., big cordgrass, marsh-elder, and various marsh grass species.

### 2.4 Conclusions

There were approximately 0.03 acres for roadway/bridge and 0.10 acres for utility temporary impacts from temporary fill and hand clearing in CAMA wetlands. There were no plots established on the site. By visual observation, the Surf City Bridge Temporary Impact Site shows that the planted species are surviving and the impacted areas are re-attaining wetland jurisdictional status. Site 4 (temporary work bridge area) at Photo Point #2 is scheduled to be planted with the appropriate marsh grass species.

### 3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to plant the Site 4 (temp. work bridge impact area) at Photo Point #2 with a Black Needle Rush and Smooth Cordgrass during the April to May 2021 planting window. NCDOT proposes to continue vegetation monitoring at the Surf City Bridge Temporary Impact Site in 2021.

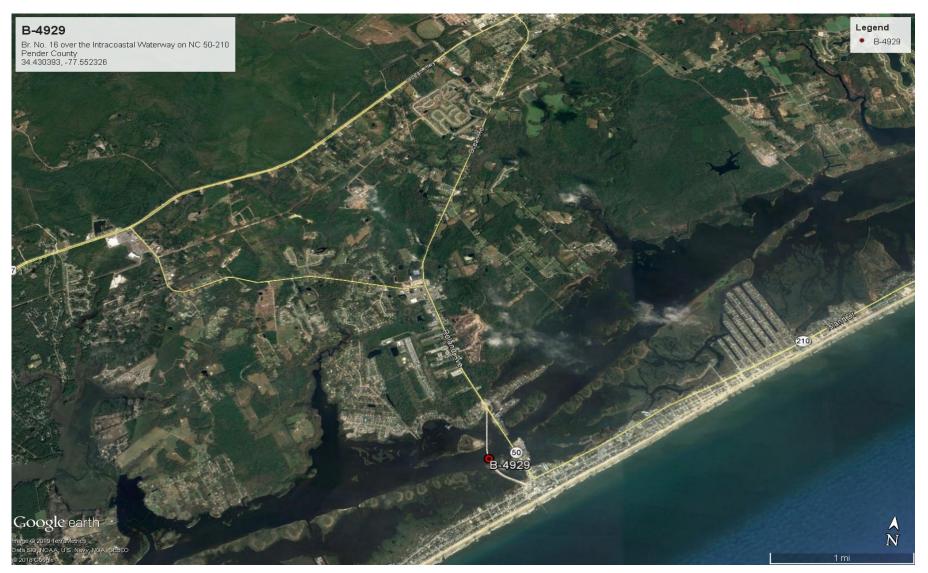


Figure 1. Vicinity Map

### **APPENDIX A**

# SITE PHOTOS, PERMIT DRAWINGS, & PHOTO POINT LOCATIONS

# Surf City Bridge Temporary Impact Site



PP# 1 Site 4 (temporary work bridge)



PP#3 Site 6 (pipe cleanout area)



PP#2 Site 4 (temporary work bridge)



PP#4 Site 7 (pipe clean out area)



PP#5 Site 3CAMA (utility temp. impact)



PP#6 Site 3CAMA (utility temp. impact)

August 2020

