

# Natalie's Place

## Stormwater Outfall Modification

Chatham County, Georgia

Project Description

September 2018

RECEIVED

SEP 18 2018

GA BNR / HMP

### 1.0 INTRODUCTION:

Mr. Robert Chu is proposing the development of Natalie's Place residential subdivision. The subject site is located adjacent to Clayton Street on Wilmington Island, Chatham County, Georgia (32.012369°, -80.967557°). Construction of the residential homes and access does not require impacts to jurisdictional waters however installation of stormwater drainage outfall into an existing county drainage canal will be required.

### 2.0 BACKGROUND AND PROJECT PURPOSE:

The project area consists of approximately 6.99 acres including 6.97 acres of upland. A Chatham County owned and maintained stormwater drainage canal is located adjacent to the project and 0.02 acre of this canal is located within the project limits. The project will include installation of three separate stormwater outfall structures within the canal. In addition, the permittee will be installing a new sewer line via directional drill under the existing canal. The project is required to comply with the Chatham County stormwater management ordinance.

### 3.0 PROPOSED PROJECT:

The permittee is proposing to impact 326 sq. feet (0.007 acre) of existing canal during rip-rap installation in association with three stormwater outfalls. The rip-rap is required for erosion control. While no impacts to jurisdictional area will occur as part of the sewer line installation, the directional bore corridor below the existing canal totals 55 sf. The proposed project has been designed to avoid and minimize impacts to the greatest extent practicable while still achieving the project's purpose and need.

#### 3.1 Marshlands Component:

The marshlands component of the project includes the Chatham County maintained stormwater drainage canal.

#### 3.2 Upland Component:

The upland component for the project includes activities occurring within the 50' marshlands buffer along the canal. The buffer along both sides of the canal totals 2.24 acres. Activities within the buffer on the eastern side of the canal and within the project limits will include continued use of the existing county maintenance road, installation of a bioswale 0.07 acres, installation of a subdivision access road (a portion of the road is located within the buffer) totaling 0.31 acre and installation of stormwater outfall structures. All of these activities were required to meet County development standards. Considering the overall canal buffer, 87 percent will remain pervious and 13 percent will be impervious. All temporary buffer impacts associated with outfall structure installation will be restored and grassed following completion of installation activities.

#### 3.3 Stormwater Management:

The project has been specifically designed to comply with stormwater management ordinances. Specifically, a series of stormwater ponds and bioswales have been designed to adhere to the Coastal Stormwater Supplement and meet the treatment requirements for quality and quantity.

### 4.0 ALTERNATIVES ANALYSIS:

The applicant and consulting team considered a variety of alternatives during project design. Alternatives include the following:

1. Installation of the outfall within upland adjacent to the canal: This was not feasible because the Chatham County maintenance road would be impacted by this design and access for required canal maintenance.
2. Installing the outfall without the rip-rap: Although this alternative would avoid impacts to the canal, this design does not meet erosion control standards.
3. Development of the site without stormwater outfall structures: Although this alternative would avoid impacts to the canal, this design does not comply stormwater management regulations.

For the reasons above, the project as proposed is the only alternative that complies with stormwater management requirements and erosion control standards.



SEP 18 2018  
GA DNR / HMP**5.0 ESSENTIAL FISH HABITAT:**

The proposed project includes installation of rip-rap for erosion control within a Chatham County maintained stormwater drainage canal. The proposed project will not adversely affect essential fish habitat.

**6.0 THREATENED AND ENDANGERED SPECIES:**

RLC conducted a threatened and endangered species survey to determine the potential occurrence of animal and plants species (or their preferred habitats) currently listed as threatened or endangered by state and federal regulations [Federal Endangered Species Act of 1973 (16 USC 1531-1543)]. The proposed project includes installation of rip-rap for erosion control within a Chatham County maintained stormwater drainage canal. The proposed project will not adversely affect threatened or endangered species.

**7.0 COMMERCIAL BAIT SHRIMP, OYSTER, AND CRABBING AREAS**

The proposed project is not located in a designated bait shrimp zone according to Georgia Department of Natural Resources *Commercial and Recreational Bait Shrimp Zones, Coastal Georgia* map. The project area is not listed on the *Georgia Harvester Reported Crabbing Areas* list, and the project area is not located in designated commercial or recreational oyster harvest areas.

**8.0 IMPAIRED WATERS**

The subject waterway is not listed on the U.S. Environmental Protection Agency 303(d) list for impaired water bodies.

**9.0 SUPPLEMENTAL INFORMATION**

This additional information is provided for compliance with Coastal Marshlands Protection Act of 1970 information requirements:

**OCGA 12-5-286. Permits to fill, drain, etc., marshlands.**

**(b) Each application for such permit shall be, properly executed, filed with the department on forms as prescribed by the department, and shall include:**

- (1) *The name and address of the applicant-***  
Mr. Robert Chu  
7226 Johnny Mercer Boulevard  
Savannah, GA 31410
- (2) *A plan or drawing showing the applicant's proposal and the manner or method by which such proposal shall be accomplished. Such plan shall identify the coastal marshlands affected-*** Please refer to attached permit drawings.
- (3) *A plat of the area in which the proposed work will take place-*** See attached.
- (4) *A copy of the deed or other instrument under which the applicant claims title to the property or, if the applicant is not the owner, then a copy of the deed or other instrument under which the owner claims title together with written permission from the owner to carry out the project on his land. In lieu of a deed or other instrument referred to in this paragraph, the committee may accept some other reasonable evidence of ownership of the property in question or other lawful authority to make use of the property; The committee will not adjudicate title disputes concerning the property which is the subject of the application; provided, however, the committee may decline to process an application when submitted documents show conflicting deeds-*** See attached.
- (5) *A list of all adjoining landowners together with such owners' addresses, provided that if the names or addresses of adjoining landowners cannot be determined, the applicant shall file in lieu thereof a sworn affidavit that a diligent search, including, without limitation, a search of the records for the county tax assessor's office, has been made but that the applicant was not able to ascertain the names or addresses, as the case may be, of adjoining landowners-*** See attached.
- (6) *A letter from the local governing authority of the political subdivision in which the property is located, stating that the applicant's proposal is not in violation of any zoning law;*** See attached.

- (7) **A non-refundable application fee to be set by the board in an amount necessary to defray the administrative cost of issuing such permit. Renewal fees shall be equal to application fees, which shall not exceed \$1,000.00 for any one proposal and shall be paid to the department.** See attached.
- (8) **A description from the applicant of alternative sites and why they are not feasible and a discussion of why the permit should be granted-** See attached project description.
- (9) **A statement from the applicant that he has made inquiry to the appropriate authorities that the proposed project is not over a landfill or hazardous waste site and that the site is otherwise suitable for the proposed project-** A review of the Hazardous Site Index for Chatham County, Georgia indicates that the subject property does not contain hazardous waste sites or landfills. A copy is attached.
- (10) **A copy of the water quality certification issued by the department if required for the proposed project-** Not applicable.
- (11) **Certification by the applicant of adherence to soil and erosion control responsibilities if required for the proposed project-** The project will conform to all building, land disturbing, and stormwater management requirements of Chatham County.
- (12) **Such additional information as is required by the committee to properly evaluate the application-** This application has been prepared with consideration for the interests of the general public of the State of Georgia as defined in OCGA 12-5-286(g):

OCGA 12-5-286. Permits to fill, drain, etc. marshlands.

- (g) **In passing upon the application for permit, the committee shall consider the public interest, which, for purposes of this part shall be deemed to be the following considerations:**
- (1) **Whether or not unreasonably harmful obstruction to or alteration of the natural flow of navigational water within the affected area will arise as a result of the proposal-** The proposed project will not alter natural flow of navigable waters or obstruct public navigation.
- (2) **Whether or not unreasonably harmful or increased erosion shoaling of channels, or stagnant areas of water will be created-** The proposed project will not increase erosion, shoaling of channels, or create stagnant areas of water.
- (3) **Whether or not the granting of a permit and the completion of the applicant's proposal will unreasonably interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, or wildlife, or other resources, including but not limited to water and oxygen supply-** The proposed structure will not interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, wildlife, or other resources, nor affect water and oxygen supply.

RECEIVED

SEP 18 2018

GA DNR / HMP

