

**EXHIBIT B
PROJECT DESCRIPTION
WEST BRUNSWICK REGIONAL WASTEWATER SYSTEM**

Brunswick County will construct a 3 mgd expansion of the West Brunswick Regional Wastewater System such that the plant will have a total treatment capacity of 6 mgd. Construction will also include a transmission main from the ETJ limits of the Oak Island to the West Brunswick Regional Wastewater Plant, effluent reuse lines to designated effluent reuse locations and effluent disposal systems at the effluent reuse sites.

The West Brunswick Regional Wastewater Plant has been designed as a tertiary treatment facility and the plant and subsequent expansion will meet or exceed the North Carolina Department of Environment and Natural Resources (NC DENR) regulations for effluent reuse. The plant and subsequent expansion will be designed to meet the following criteria:

- A monthly average for Total Suspended Solids (TSS) of less than or equal to 5 mg/l and a daily maximum TSS of less than or equal to 10 mg/l.
- A monthly average for Biological Oxygen Demand (BOD) of less than or equal to ~~5~~ mg/l and a daily maximum BOD of less than or equal to ~~10~~ mg/l.
- A monthly average for Ammonia of less than or equal to 4 mg/l and a daily maximum Ammonia of less than or equal to 6 mg/l.
- A monthly geometric mean of Fecal Coliform of less than or equal to 14/100 ml and a daily maximum of Fecal Coliform of less than or equal to 25/100 ml.
- Continuous on-line monitoring of turbidity is required and the reuse effluent cannot exceed 10 NTU.

Deleted: 10

Deleted: 5

In addition to meeting these requirements, the facility will include a storage pond for wastewater effluent that does not meet the reuse criteria and a storage pond for times when inclement weather prevents spraying of effluent on the disposal sites. Effluent disposal sites have been identified for the facility where treated wastewater effluent can be sprayed. Wastewater sludge generated at the facility will be treated to meet EPA 503 regulations for a Class A Sludge. Ultimate disposal of the sludge will be by land application.

The West Brunswick Regional Wastewater System will serve the following entities.

- Brunswick County
- Town of Holden Beach
- Town of Oak Island