

## **Green Swamp Impact Assessment Statement**

The purpose of an Impact Assessment Statement is to provide information on the effects a proposed development or land use action will have on the existing neighborhood and general area; on the transportation facilities; on the environment and natural resources of the County; on the public facilities for water, sewer, solid waste disposal, fire, police, public education, parks, recreation, and other utilities; and any other aspect with an identified impact of the development and deemed appropriate for concern.

### **A. *Floodplain Protection Areas***

There is a floodplain with determined elevation offsite and are delineated on the plans. No impacts are made to the floodplain areas.

### **B. *Wetland Protection Areas***

A wetland exists adjacent to the project. The wetland boundaries were determined from permitted plans and are delineated on the plans. Wetland protection areas encroach minimally on site and all development occurs within the upland area.

### **C. *All Development, as defined in Section 380.04, FS, shall be reviewed for consistency with the following objectives:***

1. Minimize impacts to the development on resources of the Floridian aquifer, wetland and flood detention areas
  - a. There will not be adverse impacts to the Floridian aquifer, wetlands, or flood plains.
  - b. Using existing GIS data from FDEP, the Florida Aquifer confining layer is approximately at 118 ft, which is about 12 feet below existing grade.
  - c. No contaminants anticipated to be stored onsite
  - d. A storm-drain system routes to a stormwater management system that will be designed to adhere to County and SWFWMD treatment requirements.
  - e. A geotechnical evaluation was made with report included in the submittal.
2. Protect or improve the normal quantity, quality and flow of groundwater and surface water which are necessary for the protection of resources of state and regional concern.
  - a. Water quality and quantity standards per SWFWMD and Polk county will be met.
  - b. Required design standard per SWFWMD is adhered to.
3. Protect or improve the water available for aquifer recharge
  - a. The stormwater management system will include some natural infiltration of stormwater through limited dry treatment areas designed to help with recharge.

4. Protect or improve the functions of the green swamp potentiometric high of the Floridan aquifer
  - a. No withdrawal proposed
  - b. No impacts
5. Protect or improve the normal supply of ground and surface water
  - a. No groundwater withdrawals are proposed.
6. Prevent further salt water intrusion into the Floridan aquifer
  - a. No impact
7. Protect or improve existing ground and surface water quality
  - a. Stormwater system will be designed per SWFWMD regulations which are designed to protect groundwater and adhere to surface water quality standards.
8. Protect or improve the water retention capabilities of wetlands
  - a. No wetland impacts proposed
9. Protect or improve biological filtering capabilities of wetlands
  - a. No wetland impacts proposed
10. Protect or improve the natural flow regime of drainage basins.
  - a. Drainage design includes maintaining the natural flow patterns and drainage basins
11. Protect or improve the design capacity of flood detention areas and the water management objectives of these areas through the maintenance of hydrologic characteristics of drainage basins
  - a. The site will be designed with stormwater management systems meeting SWFWMD and County standards.