



Kingsmill-Aurora

***Updated 4-23-10**

The Brevard County Natural Resources Management Office (NRMO) is currently pursuing a regional stormwater management retrofit project to reduce recurring flooding and improve water quality in the Kingsmill-Aurora area. At this time sufficient funds are not available to construct the proposed improvements. To expedite construction of this project, NRMO is actively seeking federal and state grant funding. In addition, permits must be obtained from the St. Johns River Water Management District before construction of improvements may commence. Without grant funds, construction will continue to be delayed subject to available funding.

The Eau Gallie River stormwater project to improve the stormwater system between Wickham Road and the Kingsmill subdivision is currently under design. Computer modeling of the stormwater system has shown that improvements to the system must be made starting at the downstream end of the project area at Wickham Road, in an upstream direction. This is due to the capacity of the Wickham Road culverts and the cascading effects of upsizing culverts and channels.

Our engineering consultant has determined that the driveway culvert just upstream of Wickham Road (the Dewey culvert) is one of several flow restrictions in the system. While upsizing only the Dewey culvert has minimal effects on downstream properties, the upstream effects are limited too. Improvements upstream include water surface elevation decreases north to Aurora and west along the south side of Aurora for several culvert crossings. Unfortunately, there are minimal elevation decreases north of Aurora. So upsizing Dewey's is possible, but doesn't help properties north of Aurora.

Alternatively, upsizing the culverts under Aurora and the other culverts north to Lake Washington and straightening out the channel bend north of Aurora without adding capacity at Wickham Road will help properties north of Aurora, but increase flooding of the properties west of Wickham Road.

Upsizing the Wickham Road culverts (adding a parallel culvert) and then continuing culvert and channel improvements all the way to Lake Washington Road provides flood mitigation to all and doesn't appear to negatively impact the downstream properties (the channel east of Wickham Road can handle the flow).

NRMO applied for a grant which would fund upsizing all the culverts, including Wickham Rd, but the grant was rejected because full construction plans and permits were not available. So we are moving forward with full design and permitting of the improvements under consideration so that future grant application(s) may be successful. The grant cycle begins again this summer and closes in November. After November it will be several months before we know if we will receive funding. Meanwhile, we are also evaluating other grant opportunities.

We will continue to work toward providing flooding mitigation for your area with all possible speed.

Phase I of the project

