



BCB Flood Protection Level of Service - Project Scoping

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7/14/15

Overview of Program Elements

- LOS Fundamentals
- Assessment
- Sea Level Rise
- Basin-Scale Projects:
 - LOS modeling for Basin
 - Basin Atlas

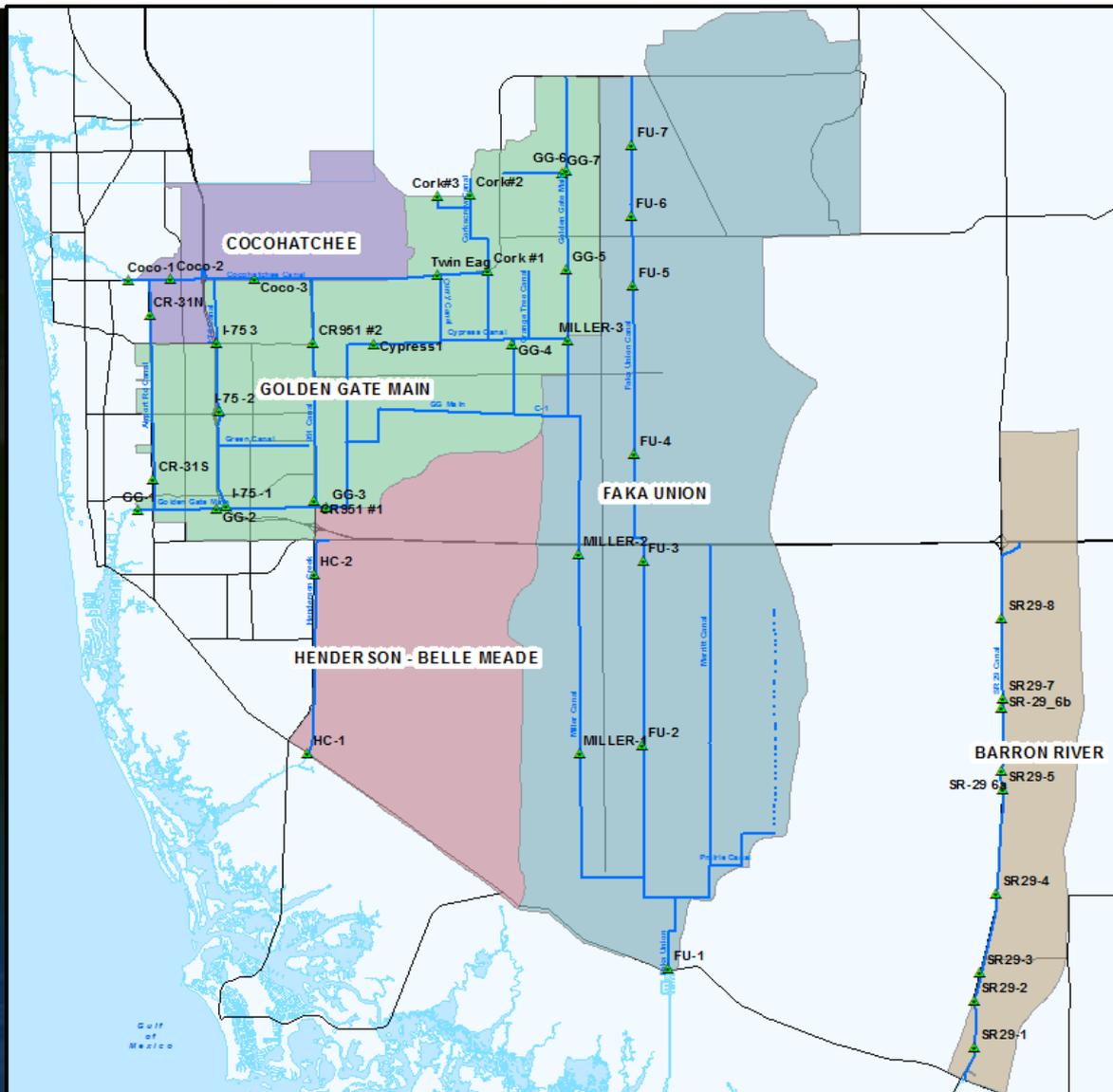
Purpose of BCB LOS Study

- Evaluate the state and performance of BCB water management system
- Identify under-performing canal segments
- Investigate effects of Sea Level Rise on the BCB LOS
- Support BCB Strategic Planning efforts by identifying long term needs of the primary canals & structures

Watersheds For Flood Protection Level-of-Service Study

BCB LOS effort

- Will focus on primary system in the major watersheds
- Will evaluate effects of Land Use on LOS
- Will modify and apply existing tools

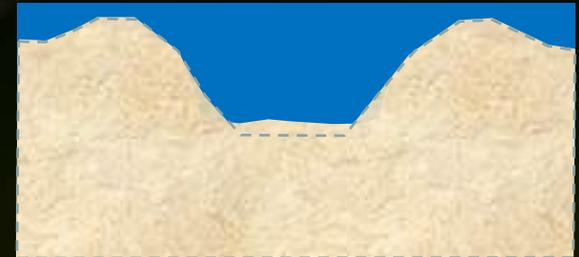


Coordination With Collier County

- BCB and SFWMD Staff met with Collier County Staff in April 2015
- Collier County working on similar LOS program with a focus on the Secondary and Tertiary system
- Coordination expected to continue

Identified Technical Challenges

- Data - Information needed to build and run the model/s.
 - Will use best available cross-section and flood event data
 - Included in project scope an assessment of sensitivity of findings to data
- Model - The existing model was not developed solely for flood modeling.
 - The Mikeshe Mike 11 Model will be modified for event simulation



Planned Project Activities

- Develop Basin Atlas
- Modify and recalibrate model
- Conduct LOS assessment for Existing Conditions
 - Define current LOS
 - Identify problematic areas
- Conduct LOS assessment for Future Sea-Level Rise Conditions
 - Change in LOS caused by Sea Level Rise
 - Identify problematic structures

Project Duration and Cost

Project Duration: 12 to 15 months

Estimated Project Cost:

- Contract support for modeling \$250k

SFWMD and BCB Staff will lead the work effort

After-Project Activities

- Solution development and strategic plan update
- Coordination with stakeholders and regulators on LOS findings
- Incorporate findings of LOS effort into BCB operational planning.



Questions and Discussion