

Project Name: C&SF: West Palm Beach Canal STA-1E/ C-51 West
Project ID: 1513
Lead Agency: USACE / SFWMD
Authority: Flood Control Act 1968; WRDA 1996
Funding Source: Federal/State

Strategic Plan Goal(s) Addressed: Primary: 1-B.1 Secondary: 3-B.1

Measurable Output(s): 6,500-acre storm water treatment area

Project History: The USACE completed work on the West Palm Beach (C-51) Canal, opening it for travel in 1917, as citrus and agriculture boomed in the area. A Design Memorandum containing the same National Economic Development plan as the original project background had many of the same features proposed in the June 1992 Detailed Design Memorandum, a Design Memorandum (February 1998 was approved referencing an “authorized plan”.) the plan included replacement of the 2.5 square-mile detention area with STA 1E from the Everglades Construction Project. The “authorized” plan is one result of the Technical Mediated Plan, agreed to as a resolution by the Department of Justice, DOI, DOA, the State of Florida and the SFWMD related to Everglades litigation.

The state’s Everglades Forever Act is based, in part, on the Technical Mediated Plan. The Act includes language for the C-51 West project that additional work, as described in the Everglades Construction Project, shall be accomplished at full Federal cost. This plan was authorized by WRDA 1996.

Current Project Synopsis: The project is located in Palm Beach County and runs east/west from Water Conservation Area 1 (Loxahatchee National Wildlife Refuge) to West Palm Beach at Lake Worth.

The technical mediated plan included a substantially modified C-51 project. The modified plan expands the original 1,600-acre floodwater detention area into what is currently a 6,500-acre STA (1E). It provides both 30-year flood risk management to the urbanized eastern basin and 10-year flood protection to the western basin. In addition to the flood damage/reduction benefits, the modified plan provides water quality treatment, reduction of damaging freshwater discharges to Lake Worth, and increased water supply for the Everglades and other users.

Major components include construction of the following: STA 1E, pumping station S-319 and S-362, Canal C-51 enlargement, and gated structure S-155A. The project will operate in parallel with STA 1W to reduce runoff from both the C-51 West and S-5A basins improving water quality prior to discharge into the Water Conservation Area (Arthur R. Marshall Loxahatchee Wildlife Refuge).

Current Status: All eastern basin features have been constructed. The STA 1E works, pumping station S-319 and S-362, Canal C-51 enlargement, and gated structure S-155A are completed and were transferred to the SFWMD for operations in 2005. A field test for treatment using periphyton was completed in 2010. Deficiency correction work for culverts and trash rakes are underway. Estimated cost for the repair work is \$73M and with 3 of 8 Task Orders awarded. Cell 5/7 is being modeled and a decision will be made if more work is to be done there or if a modification to operations will improve the results of the phosphorous removal in those cells. The modification report is expected late December 2012.

S-375 repairs are complete. The contractor is currently completing dredging operations on the western and eastern ends of the structure to remove excess materials. This work is expected to be completed by the end of May, 2012.

Est. Cost: \$ 391,550,000

Project Schedule:

1994 Start
2018 Finish

Detailed Project Budget Information (rounded):

STA 1E/C-51	Expenditures Thru FY 2011
USACE	\$231,667,000
DOI	\$46,000,000
SFWMD	\$30,109,000
Total	\$307,776,000

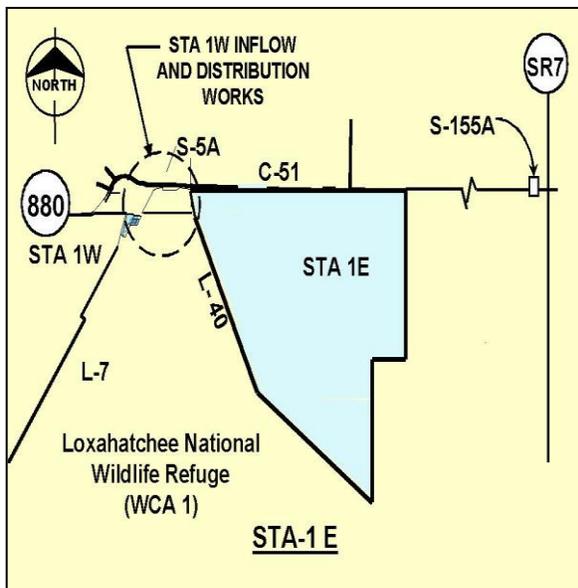
Hyperlink: http://www.evergladesplan.org/pm/projects/project_list.aspx

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Source: Original project description summarized from the *Central and Southern Florida Project Comprehensive Review Study (1999)*. Current status information was provided by the project manager. Last cost estimate reflect price levels in October 2011 dollars.

Additional Information:



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