

**Project Name:** C&SF: CERP Everglades Agricultural Area Storage Reservoirs (G P1 & G P2)  
*A/k/a Everglades Agricultural Area Storage Reservoirs - East & West*  
**Project ID:** 1102 (includes 1103) (WBS # 08 and WBS# 09);  
**Lead Agency:** USACE / SFWMD  
**Authority:** WRDA 2000 (only Phase 1 'G P1'-'Initially Authorized Project'); Phase 2 not authorized  
**Funding Source:** Federal/State

**Strategic Plan Goal(s) Addressed:** 1-A.1

**Measurable Output(s):** 360,000 acre-feet total surface storage  
[240,000 acre-feet Phase 1 (WRDA 2000) and 120,000 acre-feet Phase 2]

**April 1999 (Restudy) Project Synopsis:** Runoff from the Everglades Agricultural Area (EAA), Miami and North New River Canal Basins and regulatory releases from Lake Okeechobee is to be pumped into the reservoirs. Additionally, it provides for canal conveyance capacity increases for the Miami, North New River, Bolles, and Cross Canals. The aboveground reservoir(s) will have a storage capacity of approximately 360,000 acre-feet located in the EAA in western Palm Beach County. The initial design for the reservoir(s) assumed 60,000 acres, and was divided into three equally sized compartments (1, 2, and 3), with water level fluctuation up to 6-feet above grade:

- 1) Discharges used to meet Everglades Agricultural Area irrigation demands only.
- 2) Discharges used to meet environmental demands as a priority; and can be used to supply a portion of agricultural demands in cases where there is no environmental demand.
- 3) Discharges used to meet environmental demands.

The storage compartments can also be designed to provide a water quality treatment function, augmenting the performance of the Everglades Construction Project and ensuring protection of water quality in the Everglades Protection Area. Design of this feature for water quality performance will be based on water quality targets for the Everglades Construction Project and quality targets developed to protect designated uses in EAA waters.

**Current Project Synopsis:** The purpose is to improve the timing of environmental deliveries to the Water Conservation Areas, including reducing damaging flood releases from the Everglades Agricultural Area to the Water Conservation Areas. The features will also support reducing Lake Okeechobee regulatory releases to the estuaries, meeting Everglades Agricultural Area irrigation and Everglades natural system water demands, and mitigating flood risk for the Everglades Agricultural Area.

The Tentatively Selected Plan (February 2006), features a reservoir impoundment with a maximum normal pool storage depth of 12.5 feet with approximately 31,000 acres of above ground surface area storage. The reservoir is divided into two parts, Cell 1 and Cell 2, approximately 190,000 and 170,000 acre-feet in size, respectively.

In November 2006, the National Research Council (NRC) Committee for Independent Scientific Review of Everglades Restoration Progress (CISRERP) recommended Incremental Adaptive Restoration (IAR) for implementation of some CERP projects to provide immediate restoration benefits. The EAA Storage Reservoir project is one of five CERP projects initially identified by the Jacksonville District to be implemented based on those IAR principles. Program managers recommended in December 2006 that the Phase 1 PIR should be modified to focus on implementation of Cell 1 (the 190,000 acre-feet storage project and associated features). Cell 1 is essentially equivalent to the state expedited project.

**Current Status:** Advanced design and construction activities by the SFWMD were suspended in 2008 and 2009 with “River of Grass” planning and land acquisition activities in the same region. Further work on the CERP project implementation report has also been suspended and will be rescheduled once there is a greater certainty about future conditions in the EAA and storage and treatment options coordinated with the “River of Grass” program.

**Est. Cost:** \$ 596,439,000

**Project Schedule:** TBD

**Detailed Project Budget Information (rounded):**

Everglades Agricultural Area Storage Reservoirs	Expenditures Thru FY 2009
USACE	\$12,070,343
SFWMD	\$3,683,219
<b>Total</b>	<b>\$15,753,562</b>

**Hyperlinks:** [http://www.evergladesplan.org/pm/projects/proj\\_08\\_eaa\\_phase\\_1.cfm](http://www.evergladesplan.org/pm/projects/proj_08_eaa_phase_1.cfm)

**Contact:** Jason Harrah, Project Manager, Everglades Division, USACE (previously (904) 232-1381, [Jason.S.Harrah@usace.army.mil](mailto:Jason.S.Harrah@usace.army.mil))

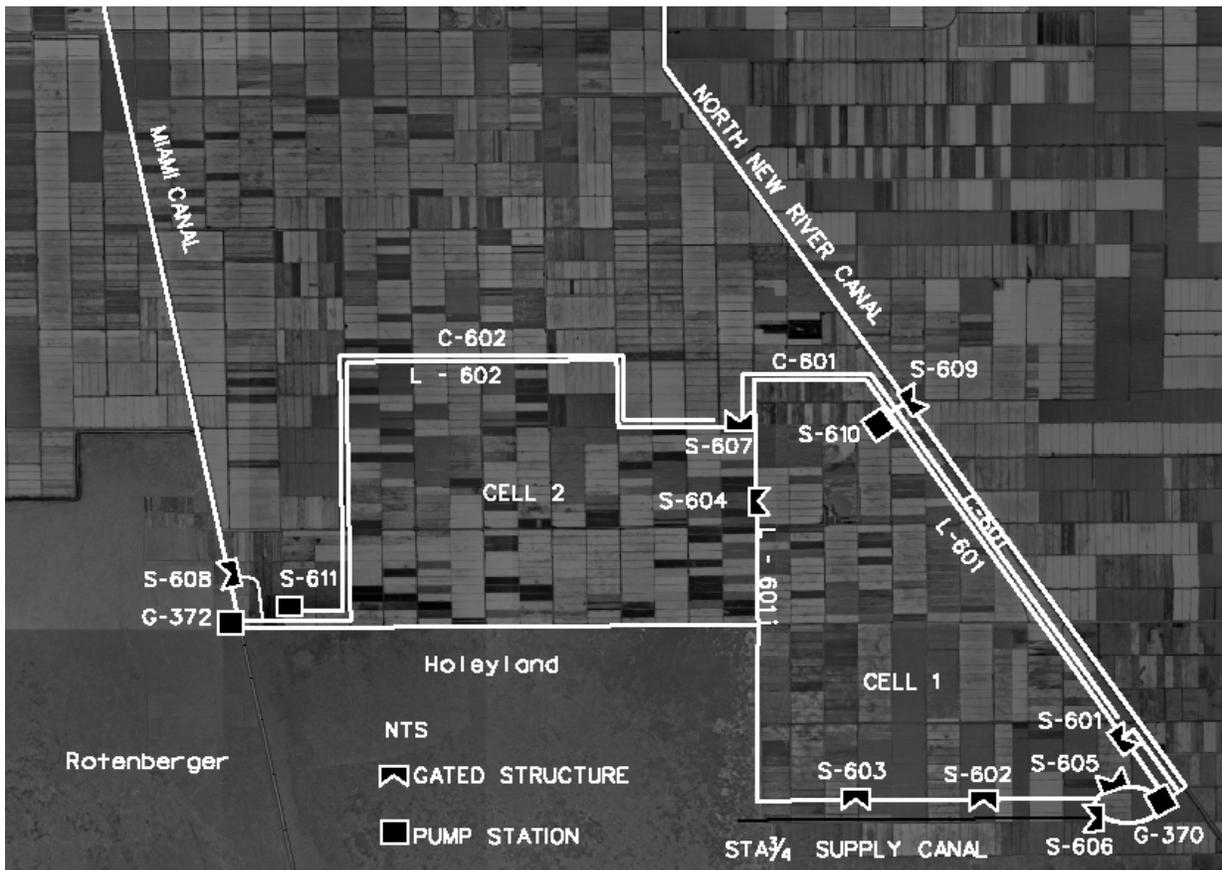
Matt Morrison, Lead Project Manager, SFWMD (561) 681-2563 x3718, [mjmorris@sfwmd.gov](mailto:mjmorris@sfwmd.gov)

**Source:** Original project description summarized from the *Central and Southern Florida Project Comprehensive Review Study (Restudy) (1999)*. Cost estimate information is updated to reflect current price levels in October 2009 dollars. Actual expenditures include all federal expenditures through FY09 (Sept, 2009) and sponsor verified and recorded in kind credit through 4th quarter FY07. Additional information was taken from the Everglades Agricultural Area Storage Reservoirs Integrated Project Implementation Report (PIR)/ Environmental Impact Statement (EIS) Revised Draft (Feb 2006).

**Additional Information:** (see next page)



Reservoir Storage Calculations	Cell 1	Cell 2
Storage Area	± 17,000 acres	± 14,000 acres
Maximum Normal Pool Depth	12 feet	12 feet
Storage	± 190,000 ac-ft	± 170,000 ac-ft
Fill Rate at 3,900 cfs	0.5 ft/day	0.4 ft/day
Time to Fill 4 feet at 3,900 cfs	8.8 days	9.4 days
Drawdown Rate at 4,000 cfs	0.5 ft/day	0.6 ft/day
Time to Drawdown 4 feet at 4,000 cfs	8.6 days	7.0 days



**Program Name:** Infrastructure  
**Project Name:** C&SF: CERP - Everglades Agricultural Area (EAA) Storage Reservoirs (G) - Expedited project includes Everglades Agricultural Area (EAA) Reservoir - Phase 1 with Bolles Canal Improvements  
**Project ID:** 1102A (CERP Project WBS #08) and 1103 (CERP Project WBS #09)  
**Lead Agency:** SFWMD  
**Authority:** Memorandum of Agreement Regarding Acceleration of the CERP  
**Funding Source:** State

**Strategic Plan Goal(s) Addressed: Primary:** 1.A.1

**Measurable Output(s):** 190,000 ac-ft surface storage, water conveyance, flood protection (Expedited EAA measurable outputs are part of the overall project total.)

**Project Synopsis:** This **SFWMD-expedited** project is a component of the larger EAA Reservoir Project and is designed to provide significant additional water storage in the southern region of the Everglades Agricultural Area (EAA). The Phase 1 project is an above-ground reservoir for water storage, with a capacity of 190,000 acre-feet at a maximum depth of 12.5 feet. The reservoir will be constructed on a 16,700-acre parcel of land situated north of Stormwater Treatment Area 3/4 and between the Miami and North New River canals. This expedited project also includes conveyance capacity increases for the Bolles Canal (L-21 and L-16 Reaches) in order to provide improved flood protection and water flow capabilities for moving water to and from the EAA Reservoir and STAs.

**Current Status:** To date, the seepage canal excavation phases have been completed and 20% of the materials to build dam components have been produced. Construction was suspended by the SFWMD Governing Board on June 1, 2008, and the construction contract was terminated on November 30, 2008.

**Storage Reservoir:**

**Estimated Cost:** \$798,719,697  
**Scheduled Construction Start Date:** July 2006  
**Scheduled Project Completion Date:** Project on hold

**Bolles Canal:**

**Estimated Construction Cost:** \$44,705,000  
**Scheduled Construction Start Date:** March 2007  
**Scheduled Project Completion Date:** Project on hold

**Actual Expenditures to date by SFWMD\*:Storage Reservoir:**

	Thru 2006	2007	2008	2009	2010	Total
SFWMD	\$32,997,068	\$91,060,566	\$130,722,278	\$6,676,296	0	\$261,456,208

**Bolles Canal:**

	Thru 2006	2007	2008	2009	2010	Total
SFWMD	\$280,899	\$559,301	\$194,435	0	0	\$1,034,635

\*Credit for expedited project work subject to inclusion in authorized Federal project. Amount estimated subject to credit once project is authorized, and authorization has been given to credit work accomplished prior to signing of a PCA.

**Contact:** Joe Albers, SFWMD, 561-242-5520, Ext. 4064