

COUNTY STORMWATER MANAGEMENT SYSTEM FACILITIES – CANALS AND STRUCTURES

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2012 AUIR STORMWATER MANAGEMENT SYSTEM
FACILITIES SUMMARY FORM

Facility Type: County Maintained System of Secondary Stormwater Management
Canals & Structures (Category A)

Level of Service Standard (LOSS): Variable – “C” or “D”

The Stormwater Management System Level of Service Standard (LOSS) reflects the performance of the system in collecting and managing stormwater runoff, providing flood protection and water quality treatment. The LOSS is the measure of adequacy of the system’s provided capacity, handling discharges from upstream portions of the watershed while minimizing the degradation of the quality of the receiving waters.

The flood protection measure is the amount of acceptable flooding depth along public roads that is considered not to pose a threat to the health and safety of the community. Management and attenuation of system flow, as well as water quality treatment, is accomplished by insuring that all developed areas meet current surface water management regulations.

Observations of roadway flooding following large storm events are recorded and mapped targeting areas of concern and potential future system capacity improvements. Hydrologic and Hydraulic assessment using computer models simulating stormwater routing of prescribed storm events are a predictive tool used for identifying and quantifying deficiencies in the Secondary System. The capital project investments of the stormwater program funding are focused on the secondary drainage canals and structures. Future system capacity improvements will be based on such analysis.

Another point of program focus is managing the requirements of, and maintaining compliance with, the National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Separate Storm Sewer System (MS4) Permit (Permit ID FLR04E037). Collier County is an MS4 operator. The MS4 is the publicly owned and operated stormwater treatment and conveyance system which discharges stormwater runoff into surface waters of the state. The system must be operated with all appropriate pollution prevention measures in place to reduce the contamination of stormwater runoff and prohibit illicit discharges from privately maintained systems into the county MS4. Significant current NPDES efforts include ongoing updates to the system inventory and drainage atlas GIS database as well as updating the inventory data of all private inputs of the county MS4. This includes field data collection, review of historic site development and roadway plans, field verification, and data input into a GIS database.

The third program focus is an evaluation of the Secondary System water level control structures. The evaluation includes an engineering inspection and assessment of their current ability to function, as well as a cost and time schedule for major maintenance/rehabilitation and/or replacement.

Long-Range Planning and Implementation of the Watershed Management Plan Initiatives
Future Stormwater projects are currently being identified and prioritized as part of a long-range stormwater planning process in coordination with the completion of the county-wide watershed management plan. Projects are being evaluated on the potential for acquiring alternate funding sources and grants, environmental restoration, benefit to cost analysis, stakeholder vetting, and agreement with the recommendations of the watershed management plan.

The secondary system of stormwater management canals and structures will be reassessed to determine existing system capacities, current LOS, identifying the location and nature of any existing deficiencies and proposed needed improvements. This assessment will fully document the current capabilities of the secondary system to treat and convey stormwater from the tertiary (roadside) system to the primary system, which is maintained and operated by the Big Cypress Basin of the South Florida Water Management District.

An alternate method of calculating LOS recommended by the watershed management plan will be evaluated during FY 2013. New evaluation criteria will be proposed considering existing roadway classification and the appropriate selected storm event return frequency. This approach allows for distinguishing between nuisance flooding and hazard flooding.

Stormwater Program Summary FY 2012/13 thru FY 2016/17

Recommended Work Program	\$ 28,826,100
Recommended Operating Costs	\$ 6,212,000
Recommended Revenues	<u>\$ 35,038,100</u>
Surplus or (Deficit) Revenues	\$ 0

- Attachments: 1. Table – Stormwater Management System Capital Improvement Program and Revenues FY 2012/13 to FY 2016/17
2. CIE Amendment Submittal – Exhibit “A”
3. CIE Amendment Submittal – Appendix “H”

2012 AUIR FACILITY SUMMARY FORM – Stormwater Management

Facility Type: County Maintained System of Secondary Stormwater Management Canals & Structures (Category A)

Table 1 - FY 13 - FY 17

Plan Year		1	2	3	4	5	5 - Year
Fiscal Year		FY 13	FY 14	FY 15	FY 16	FY 17	Totals
Proj. No.	Current Multi-Year Commitments						
51018	Gordon River WQ Park Monitoring and Main. *		25 M	25 M	25 M	25 M	100
51101	LASIP *	3,848 DRC	3,849 DRC	3,960 DRC			11,657
51144	Stormwater Master Planning		40 P	40 P	40 P	40 P	160
60121	NPDES MS4 Program	150 P	150 P	150 P	150 P	150 P	750
	Infrastructure Maintenance Projects						
51029	GG City Outfall Replacements	250 DC			1,000 DC	1,500 DC	2,750
60094	Secondary System Repair	100 C	100	100	100	100	500
60123	28th Ave SE Culvert Crossing over Miller Canal	106 DR					106
60124	Eagle Creek Weir Replacement				600 C		600
60103	Winter Park (Halderman #2) Weir Replacement				90 C		90
60119	Pine Ridge Canal Weir 1 Replacement			250 A	450 C		700
TBD	Pine Ridge Mockingbird Lake Outfall		100 DC				100
	System Capacity Projects						
60122	Vanderbilt Drive Swale Rehabilitation	216 C					216
TBD	Palm Springs Outfall Improvements				60 D	150 C	210
TBD	Naples Park Swales (Coord. W Utilities)					90 D	90
	Watershed Management Plan Projects						
TBD	North Golden Gate Estates Flowway Restoration		406 DR	238 CR	500 CR	600 CR	1,744
TBD	North Belle Meade Spreader Swale				500 DC	500 DC	1,000
TBD	Henderson Creek Diversion				500 DC	1,000 DC	1,500
	Water Quality Improvement Projects						
60102	Gordon River Ext. Burning Tree Drive Diversion				200 DA	301 C	501
TBD	Griffin Road Outfall				644 DA	500 C	1,144
	Total Projects	4,670	4,670	4,763	4,859	4,956	23,918
	X-fers/Reserves/Debt Service	982	982	982	982	982	4,910
	Total Comitments	5,652	5,652	5,745	5,841	5,938	28,828
	Stormwater Operating	1,242	1,242	1,242	1,242	1,242	6,210
	Total Program Cost	6,894	6,894	6,987	7,083	7,180	35,038

* CIE Projects

P = Planning, D = Design & Permitting, R = Right-of-Way Acquisition, C = Construction, M = Maintenance/Monitoring, A = Advance Funding

- Notes: 1. All numbers are in thousands of dollars
 2. 2013 outlay actual budget proposed, subsequent years proposed/estimated based on info supplied by OMB, subject to change.
 3. Const. funding level indicated for 28th Ave SE, NGGE Flowway, Northern Belle Meade and Henderson Creek requires 50% SFWMD match.

Program Revenue (Fund 325)

Plan Year		1	2	3	4	5	5 - Year
Fiscal Year		FY 13	FY 14	FY 15	FY 16	FY 17	Totals
	Grants (SFWMD/BCB Agreements)	1,000	1,000	1,000	1,000	1,000	5,000
	Interest/Misc	33	33	33	33	33	165
	Trans fm 001 Gen Fund	5,530	5,912	6,005	6,101	6,198	29,746
	Trans fm 111MSTD Gen Fd	250					250
	Carry Forward	132					132
	Revenue Reduction (less 5% required by law)	(51.00)	(51.00)	(51.00)	(51.00)	(51.00)	(255.00)
	Total Program Revenue	6,894	6,894	6,987	7,083	7,180	35,038

