



## Memo

**TO:** Robert Payton, City Manager  
**THRU:** Vernon Hargray, Operational Services Assistant City Manager  
**THRU:** Thomas Good, Public Works Director  
**FROM:** Kirk Hobson-Garcia, P.E., Assistant Public Works Director  
CRS Coordinator  
**DATE:** September 19, 2011  
**RE.:** **ANNUAL PROGRESS REPORT**

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The National Flood Insurance Program's (NFIP) Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements.

The City of Miramar is a participant in the NFIP CRS which means that residents and business owners receive a discount on their flood insurance premiums in recognition of efforts made by the City of Miramar to reduce the impact of flood incidents. Reduced flood insurance premiums are just one of the many rewards of participating. CRS floodplain activities provide enhanced public safety, a reduction in damage to property and public infrastructure, a reduction of economic loss and protection of the environment.

On March 2, 2005, the City Commission of the City of Miramar adopted Resolution No. 05-128 which outlined the Local Mitigation Strategy for Post-Disaster Redevelopment Planning as the City's Flood Plain Management plan. Under this planning effort, Activity 510 of the Community Rating System Annual Recertification instructs participating communities to prepare a written progress report each year. This memo is our progress report. For the city to get credits under the Community Rating System, this report must be distributed to our local media companies in our environs and be made available to the public. This document is being sent to our local community media companies that cover City of Miramar. A copy of this report will be kept at the City Clerk's Office at 2300 Civic Center Place, City Hall, and posted on the city's website at:

<http://www.ci.miramar.fl.us/publicworks/accomplishments.html>

### **Background:**

The original Flood Protection Plan was developed during the period 1997 to 1999 and adopted by the Broward County Board of County Commissioners in March 2000. This plan known as the Broward County Local Mitigation Strategy (LMS) was reviewed by the Florida Department of Emergency Management as compliance to the Local Plan Interim Criteria under the Disaster Act of 2000 published by FEMA HQ and dated March 28, 2002.

The Plan reviews a variety of measures that can reduce the problems and/ or protect city residents and their property when flooding occurs. Measures reviewed include retention basins, culvert and storm sewer improvements and retrofitting, flood proofing, flood insurance, building regulations, public information, safety precautions, and erosion and sediment control.

### **Analysis:**

The City of Miramar Departments are constantly striving and looking for ways to improve the Community as a whole. One of these perpetual targets is to reduce the risk to people and property in the event of flood inducing events. For this purpose, the City has looked at important indicators to begin its improvements. Repetitive loss properties were studied to see if there was a regional problem that might be corrected through CIP planning and retrofitting by the city.

However, after further study, using the City's geographic information system it became clear that although these properties were affected by abnormal rainfall, other properties were not impacted by the same conditions. This notion led to drainage studies for the Eastern region of the City from State Road 7 to Florida Turnpike. These studies were done and completed.

The following activities have taken place:

### **Flood Damage Reduction Projects Follow-up for the Year 2011**

- 1) Historic Miramar Redevelopment is a major City priority in preserving and upgrading the historical eastern areas of the City. During the Historic Miramar Infrastructure Improvements Phase 1 project, the City invested \$10million to enhance and improve the underground utilities infrastructure. These improvements were completed in 2007. A goal of this project was to provide water and sewerage, and enhanced the flood protection. In 2010 and 2011, these improved services have been extended during Historic Miramar Infrastructure Improvements Phase 2 project and are expected to be completed in 2012.
- 2) The East Coast Protection Levee protects the developed portions of Broward County from Everglades flooding. In 2010, South Florida Water Management District begun upgrade work on the Broward County portion of the levee and has applied for a FEMA Provisional Accredited designation.
- 3) In 2011, the City of Miramar purchased a replacement street sweeper for approximately \$120,000 as part of its continuing efforts to reduce the amount of debris on the roads and contaminants entering the City's stormwater system, canal, and waterways. These actions are in accordance with the

City's Best Management Practices and NPDES requirements for flood protection and pollution control.

- 4) The City's Stormwater Maintenance Division continues to participate in NPDES permit program. This includes inspection and cleaning of the City's drainage systems inlets and outlets for trash and debris, and lake management. The goal of the City's lake management is to assist in the maintenance of the City's canals, lakes, and ponds through effective aquatic weed and trash control to improve water quality. The City's water bodies are on a routine maintenance schedule and are monitored by field personnel.

#### **Other Recommendations / Activities**

- 1) The City continues to look for grants, City, County, State and Federal funding possibilities or even low interest loans for funding the City's future flood mitigation storm drainage improvement projects.