



CITY OF MIAMI  
MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT  
(January 1<sup>st</sup>, 2008 - May 31, 2008)

Action Items

1. Storm water
  - a. Retrofit drainage in remaining areas of Miami River starting with Pinehurst neighborhoods

**Status:** This project included drainage work consisting of french drains, solid piping, catch basins, manholes, pollution retardant structures, and water control structures prior to the outfall to Wagner Creek in order to provide water quality treatment prior to discharge and inhibit the discharge of solids into Wagner Creek.

The final design phase was completed in December 2004. Construction commenced in August 2005 by H&A Contracting Corp. and has been completed and accepted by the Public Works Department in February 9, 2007. Estimated total project cost is \$ 2 million. This project is fully funded by city funds supplemented by SFWMD grants in the amount of \$ 1.2 million.

The project boundaries are bounded on the north by N.W. 28<sup>th</sup> Street, on the south by N.W. 23<sup>th</sup> Street, on the west by N.W. 17<sup>th</sup> Avenue and on the east by N.W. 12<sup>th</sup> Avenue.

- b. Little Havana Storm Sewer Rebuilding Project

**Status:** The construction for this project was completed on October 2002.

The project location is S.W. 10<sup>th</sup> Terrace between S.W. 27<sup>th</sup> and S.W. 28<sup>th</sup> Avenue.

c. Allapattah Storm Sewer Project

**Status:** The construction for this project was completed in approximately December 2004.

This project is located along N.W. 15<sup>th</sup> Street between 13<sup>th</sup> Court and 14<sup>th</sup> Avenue and along 13<sup>th</sup> Court between 15<sup>th</sup> and 16<sup>th</sup> Street.

d. Downtown Storm Sewers Rebuilding Project

**Status:** This project is divided in two phases: Phase I (S.W. 15<sup>th</sup> Road) and Phase II (North Bay Shore Drive at N.E. 18 Street, N.E. 17 Terrace, N.E. 18 Terrace, N.E. 4 Avenue, N.E. 19 Street, N.E. 17 Street). Phase I was completed on August 2002.

Phase II consists of drainage improvements and roadway reconstruction. The engineering design consultant assigned to this project is R.J. Behar. The design phase is approximately 95% complete. The design commenced in February 2005 and is anticipated to be completed by February 2008. Subsequent to procurement phase, construction is expected to begin in June 2008 and be completed in December 2008. The estimated total project cost at this time is \$3.5 million. Current funding is allocated to cover the construction costs.

e. Wagner Creek and Seybold Canal Dredging Project

**Status:** This project consists of the dredging for Wagner Creek and the Seybold Canal. Bank stabilization will also be included for Wagner Creek only. In an effort to complete all necessary design work, permitting and dredging for this project, the City selected a new environmental professional to remediate the creek through a Competitive Negotiation Process. This process commenced in June 2006 and the City received responses from various firms. Through this process, the City recommended one firm (CH2M Hill) for Commission approval in the September 2007 Commission agenda for the design and permitting components of the entire length of both canals. A contract agreement was entered between the City and CH2MHill and a Notice to Proceed (NTP) for the design and permitting of both canals was issued to CH2M Hill in March 14, 2008. Public outreach activities have commenced that includes meetings with key stakeholders such as City and County commissioners, government agencies and civic associations. Surveying and sampling activities is expected to

begin in the first week of June. As the project is entering the pre-design phase, the City may at that time request CH2MHill to submit another fee proposal for the dredging work only. (Note: Subsequent to design and permitting completion, the City will determine what longitude of Wagner Creek and Seybold Canal can be dredged based on the City's available funding for this project.) This dredging proposal will also require City Commission approval. The City does not have a date for this activity at this time.

The current estimated budget for this project is approximately \$ 3.2 million. An estimated construction cost for this project is yet to be determined at this time. The City will continue to seek additional funds for this project.

The project limits are along Wagner Creek between N.W. 20th Street and N.W. 11th Street and along Seybold Canal between N.W. 11 Street to the Miami River.

f. Flagami / West End Storm Sewer Improvements Project

**Status:** This project involves a storm sewer system that will consist of new outfalls, retrofit of existing outfalls with manatee barriers, new exfiltration trench, storm sewer pipe for gravity conveyance, cross drains, catch basins, manholes, and surface restoration. Road improvements such as roadway milling & resurfacing, damaged sidewalk replacement, damaged curb and/or gutter replacement, ADA Compliant Ramp construction and resod of swale at the affected road blocks by the drainage construction. This project is fully funded and construction work began in February 2008.

**Location:** Flagami Area: Area bounded by W. Flagler St. SW 8th St. SW 67 Ave & SW 62 Ave. West End Area: Area bounded by Tamiami Canal St., Flagler St., NW 69th Ave & NW 62nd Ave.

**Estimated Project Cost:** \$11,852,977

g. Fairlawn Storm Sewer Pump Station Project, Phase IIA

**Status:** This project involves a new gravity conveyance system connected to a pump station and force main outfall to the C-4 canal. Road improvements such as roadway milling & resurfacing, damaged sidewalk replacement, damaged curb and/or gutter replacement, ADA Compliant Ramp

**construction and resod of swale at the affected road blocks by the drainage construction. This project is fully funded. This project will be completed in construction in May 2008.**

**Location: Area bounded by NW 4 Tr, NW 47 Ave, NW 7 St and NW 51 Ave.**

**Estimated Project Cost: \$3,288,416**

h. **Flagami / West End Storm Water Pump Stations Nos. 1, 2, 3 & 4**

**Status: This project involves the construction of 4 new storm sewer pump stations to alleviate flooding problems in the Flagami/West End areas. These pump stations will connect to the collection system to be constructed under the project entitled “Flagami / West End Storm Sewer Improvements Project”. This project is fully funded and is expected to be completed by June 2008.**

**Location: Station No.1: SW 63rd Ct. and SW 6th St. Station No.2: SW 63rd Ct. and SW 2nd St. Station No. 3: NW 64th Ct. and NW 3rd ST. Station No.4: NW 62nd Ct. and NW 5th St.**

**Estimated Project Cost: \$5,710,228**

i. **Fairlawn Storm Sewer Improvements Project, Phase IIB**

**Status: This project involves the construction of a storm sewer system that includes exfiltration trenches, connection to an existing outfall, cross drains, surface restoration, and maintenance of traffic. This project may also include road improvements such as roadway milling & resurfacing, re-sodding of swales, damaged sidewalk replacement, damaged curb & gutter replacement, and ADA compliant ramps at the affected roads by the drainage construction. The project was advertised for public bidding on September 2007. Through a competitive negotiation process, the project was awarded to Metro Express, Inc. Construction work began in March 2008.**

**Location: Area bounded by NW 7 St, W Flagler St, NW 57 Ave & NW 52 Ave.**

**Estimated Project Cost: \$3,992,800**

j. Citywide Inlet and Outfall Cleaning

**Status:** Envirowaste Services Group continues cleaning citywide inlets (north zone and south zone) and outfalls. The City has authorized GBF, an engineering consultant to inspect the cleaning activities. Inspection is ongoing.

**Project duration is two years.**

k. Inlet Retrofit for the Wagner Creek Basin

**Status:** No inlet retrofits took place during the first two quarters of 2008.

l. Scavenger 2000 De-Pollution Boat

**Status:** This project consists of the cleaning, oxygenation, and decontamination of the Miami River, Seybold Canal, and other waterways.

**Estimated Total Project Cost is \$300,000 for the first year. Current annual allocated budget is \$200,000 through City funds and \$100,000 from Miami-Dade County for the first year. The contract is for one year with an option to renew for two (2) additional one-year periods. The \$100,000 County's portion is complete.**

- m. Collect, compile, analyze and report of solid waste data from catch basins

**Status: The following is a summary of the solid waste from the catch basins collected by Waste Management for January 08 to April 08**

Date	Tons
1/4/2008	10.85
1/8/2008	14.30
1/15/2008	14.56
1/16/2008	15.09
1/17/2008	12.83
1/18/2008	15.61
1/29/2008	13.41
1/30/2008	9.31
<b>January Total</b>	<b>105.96</b>
2/1/2008	14.75
2/12/2008	13.88
2/13/2008	13.58
2/15/2008	12.69
2/16/2008	14.42
2/22/2008	13.60
2/25/2008	14.15
2/28/2008	6.68
<b>February Total</b>	<b>103.75</b>

Date	Tons
3/7/2008	12.82
3/10/2008	15.48
3/12/2008	13.40
3/13/2008	15.86
3/18/2008	13.69
3/27/2008	13.41
<b>March Total</b>	<b>84.66</b>
4/1/2008	13.74
4/2/2008	9.79
4/3/2008	12.09
4/7/2008	14.95
4/10/2008	13.82
4/11/2008	10.46
4/16/2008	10.86
4/18/2008	13.59
4/21/2008	15.63
4/23/2008	11.92
<b>April Total</b>	<b>126.85</b>
<b>Quarterly Total</b>	<b>421.22</b>

n. Report of on-site storm water treatment alternatives and BMP's

**Status:**

- a. **Texas Aquatic Harvesting continued citywide canal cleaning and maintenance. C3TS performed inspection services for this project.**
- b. **Waterways where cleanup has taken place include Wagner Creek, Seybold Canal, Lawrence Waterway, Comfort Canal, Ademar Canal, Davis Canal, and the Antonio Maceo Park Tamiami Canal.**

2. Wastewater

- a. Conduct "dye flood" study

**Status: No new study performed.**

3. Enforcement, compliance and education

- a. Implement active inspection of sanitary sewer connections and stormwater drainage during construction

**Status: The City of Miami regularly inspects new construction of storm sewer and sanitary infrastructure as part of the on-going procedures of the permitting process. The City of Miami Building Department inspects the private side and Public Works Department line and grade inspector inspects the public side. The Miami-Dade DERM inspects storm sewer system connections.**

- b. Point Park Environmental Center

**Status:**

- **The Shoreline Project is completed**
- **The Seybold project is on hold.**
- **The Spring Garden Civic Association (SGCA) has provided written comments to the Parks Department regarding the final disposition of the Seybold Building. The SGCA is willing to allow the demolition of the existing structure as long as a new building is erected in its place. The Parks Department has performed research on possible designs for a new structure and presented a proposed floor plan at a recent SGCA**

**meeting. The Parks Department is awaiting a written response from the SGCA on the building design before proceeding.**

- **The park is now open to the public**

- f. During the first two quarters of 2008 the City of Miami conducted two (2) Florida Stormwater, Erosion, and Sedimentation Control Inspector Training classes in order to educate contractors and City staff on proper stormwater and sediment management techniques and best management practices (BMPs). Thirty-eight (38) students became State of Florida qualified stormwater management inspectors.
  - g. The City of Miami acted as a sponsor for Miami River Day, held at Jose Marti Park on Saturday, April 12, 2008, during which numerous environmental education providers distributed materials.
  - h. The City of Miami sponsored Baynanza, held on April 19, 2008 at the Bay Helper level.
4. Monitoring and Research
- a. Complete special studies required under NPDES

**Status: The City of Miami is gathering information for its 2007 Annual Report (Year 4) to be submitted to FDEP.**

**The City of Miami is reviewing an outfall monitoring plan drafted by PBS&J prior to its submittal to FDEP for final approval.**

**The City of Miami and Miami-Dade County DERM, and FDEP are currently collaborating on the basin management action plan (BMAP) process in order to address the TMDL. A proposed delineation for the Wagner Creek/Seybold Canal watershed has been submitted to FDEP.**