



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

Action Items

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

Status: This project included drainage work that consist 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. 28th Street, on the south by N.W. 23th Street, on the west by N.W. 17th Avenue and on the east by N.W. 12th 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. 10th Terrace between S.W. 27th and S.W. 28th Avenue.

- c. Allapattah Storm Sewer Project*



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

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

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

d. Downtown Storm Sewers Rebuilding Project*

Status: This project is divided in two phases: Phase I (S.W. 15th 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 Construction is complete.

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 meeting with key stakeholders such as City and County commissioners, government agencies and civic associations. 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.



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

Permit Status for the Wagner Creek Seybold Canal Dredging Project

- DERM issued an approval to the CAP on 10/19/2009.
- The City issued a response letter to DERM's letter on January 26, 2010 acknowledging the requirements.
- FDEP is in communications with the Fish and Wildlife Agency seeking comments from their review.
- The issuance of the Army Corps of Engineers permit is contingent upon the issuance of permits from DERM and FDEP.
- FFWA is in communications with DERM regarding fish and other ecological matters. Review by FFWA is still ongoing.
- Responses regarding manatee protection and turbidity control measures have been received from DERM and responded to by the city.
- The city has forwarded all current access agreements to FDEP as requested including modified access areas.
- Sealed drawings are in process for submittal to DERM.

Project Management Activities Associated with the Project

- The City and the County continues to negotiate the Access Agreements.
- A letter was drafted and later sent on 1/13/2010 to resume talks with the County to negotiate terms and conditions associated with the Access Agreement. Follow-up meeting on 2/5/2010 and 3/4/2010 were also conducted.
- There has been no resolution with the Access Agreement. The City has proposed additional relay areas to be located within the public right-of-way. The request for permit modification was submitted on 4/15/2010 to all agencies.

Funding Activities Associated with the Project

- Discussion meetings between the City of Miami and the Florida Inland Navigation District (FIND) were conducted on March 1, 2010 to discuss funding opportunities.
- Based on initial findings, FIND has no objections to review the application to fund the Seybold Canal.



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

- The City is in the process of drafting an agenda item summary form and resolution for commission approval to submit a letter of intent.
- The City is exploring funding opportunities from the Clean Water State Revolving Fund.

f. Flagami / West End Storm Sewer Improvements Project

Status: Construction of a storm sewer system that will consist of new outfalls, retrofit existing outfalls with manatee barriers, new exfiltration trench, storm sewer pipe for gravity conveyance, cross drains, catch basins, manholes and surface road restoration. Road improvements such as roadway milling and resurfacing, damaged sidewalk replacement, damaged curb and/or gutter replacement, ADA compliant ramp construction and resodding of swale at road blocks impacted by drainage construction:

- Construction of the drainage system is 100% complete.
- Restoration work with regards to driveway approaches, landscaping, traffic sign replacements, minor swale re-adjustments in accordance with Bulletin No. 28 issues and sidewalk repairs are 100% complete.

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 Construction Cost: \$6,148,000

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



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

construction. This project is fully funded. The project is 100% complete.

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

Estimated Construction Cost: \$2,857,248

- 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. Construction to the four pump stations is complete. All pump station are undergoing operation testing by the City Public Works Department and is completed by December 2009 and pending close-out.

Estimated Construction Cost: \$5,279,912

- 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 April 1, 2008 and is 100% completed.

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

Estimated Construction Cost: \$2,015,092

- j. Citywide Inlet and Outfall Cleaning*



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

Status: The Public Works crews continue cleaning citywide inlets and outfalls. Envirowaste resumed cleaning City of Miami storm drains in February of 2010.

k. Inlet Retrofit for the Wagner Creek Basin*

Status: No inlet retrofits took place during the first or second quarters of 2010.

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. The Seybold Canal work is not included in the five hours per week performed on the Miami River at no charge to the City, but rather is invoiced separately.

The City has concluded its third option to renew as of August 19, 2010.

There is a proposed 3 year "sole source" contract schedule to be awarded on the Commission meeting of September 9, 2010. Annual funds have been allocated for this contract in the amount of \$200,000.



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

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

Status: The solid waste data shown below was compiled based on invoices that were available at the time of the report.

Date	Tons
2/26/2010	21.94
February Total	21.94
4/2/2010	14.49
4/7/2010	20.03
4/12/2010	14.39
4/19/2010	17.26
4/23/2010	18.08
April Total	84.25
5/3/2010	13.82
5/10/2010	12.68
5/17/2010	15.18
5/20/2010	17.41
5/27/2010	14.06
May Total	73.15
6/4/2010	15.82
6/15/2010	16.49
6/18/2010	15.64
6/26/2010	13.66
6/30/2010	17.70
June Total	79.31
7/6/2010	15.98
7/16/2010	19.05
July Total	35.03
Semi-Annual Total	293.68

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

Status:

- a. Texas Aquatic Harvesting continues citywide canal cleaning and maintenance. Inspection services for this project are performed in-house.



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

- 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.

Status:

- c. Texas Aquatic Harvesting continues citywide canal cleaning and maintenance. Inspection services for this project are performed in-house.
- d. 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 "dye flood" study for sanitary sewer interconnections was 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.



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

- **The Parks Department performed research on possible designs for a new structure and presented a proposed floor plan at a Spring Garden Civic Association meeting in April 2008. The SGCA could not come to a consensus on the building, which has deteriorated in the interim. The Parks Department indicated that if the Seybold Canal House was found to be an unsafe structure, then it would be demolished. Due to life/safety concerns, a Building Department unsafe structure inspection of the existing building was requested. On July 6, 2009, the Building Department performed an inspection and determined the Seybold Canal House to be an unsafe structure. The park is now open to the public.**
 - c. The City of Miami Public Works Department conducted two sessions of the Florida Stormwater, Erosion, and Sedimentation Control Inspector Training. The first was from February 23rd- 25th at the Miami Riverside Center and included training on illicit discharge detection and prevention. The second, in partnership with the Economic Initiatives Department, was held at Lindsey Hopkins Technical Education Center from May 10th – 13th, 2010. A total of 30 students attended the training sessions.
 - d. The City of Miami continues to present an educational slide show in order to educate contractors and residents on the importance of preventing illicit discharges to the storm sewer system and the environmental impacts of illicit discharges. The presentation is shown continuously on a computer monitor in a public area on the fourth floor of the Miami Riverside Center.
 - e. The City of Miami hosted Earth Day / Take Our Children to Work Day on April 22nd, 2010 at the Miami Riverside Center. The City demonstrated an erosion model and distributed educational materials highlighting the importance of non-point source pollution control.
4. Monitoring and Research*
- a. Complete special studies required under NPDES*

Status: The City of Miami issued a notice to proceed to EBS Engineering dated June 29, 2009 for citywide outfall monitoring. The project



City of Miami

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT FOR FIRST AND SECOND QUARTER 2010

is ongoing. Samples have been collected from outfalls discharging to the Miami River, Lawrence Waterway, Little River, Tamiami Canal, Biscayne Bay, Blue Lagoon, and Comfort Canal.

On July 30, 2010, the City of Miami submitted its NPDES Annual Report to FDEP. FDEP determined the report to be administratively complete. An inspection/audit is scheduled for September 8, 2010.