



CITY OF MIAMI
MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT
(APRIL 1, 2007 – JUNE 30, 2007)

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. 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

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 consists of drainage improvements and roadway reconstruction. The engineering design consultant assigned to this project is R.J. Behar. The design phase is approximately 90% complete. The design commenced in February 2005 and is anticipated to be completed in September 2007. Subsequent to procurement phase, construction is expected to begin in April 2008 and be completed in October 2008. The estimated total project cost at this time is \$3.5 million. Current funding allocated for this project is \$ 671,495.

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 will be selecting 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 expects to recommend one firm for Commission approval in the September 2007 Commission agenda for the design and permitting components of the entire length of both canals. A Notice to Proceed (NTP) for the design and permitting of both canals is expected to be issued to the selected firm in November 2007. Since more specific details (i.e. surveying and geotechnical testing) about the project will be defined during the design phase, than during the design phase the selected firm will be requested to submit another fee proposal for the dredging 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 \$ 4.8 million. An estimated construction cost for this project has not been 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. 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.

g. Inlet Retrofit for the Wagner Creek Basin

Status: No inlet retrofits took place during the first quarter of 2007.

h. Scavenger 2000 De-Pollution Boat

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

The Miami City Commission passed a resolution to enter into a new sole source contract with Water Management Technologies for the Scavenger Depollution Boat at the June 14, 2007 Commission meeting. Estimated Total Project Cost is \$300,000 for the first year. Current annual allocated budget is \$200,000 through City funds and \$100,00 from Miami-Dade County for the first year. The contract will be for one year with an option to renew for two (2) additional one-year periods.

- i. 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 February 07 to May 07

| Date | Tons |
|------------------------|---------------|
| 2/7/2007 | 13.16 |
| 2/9/2007 | 15.94 |
| 2/22/2007 | 10.51 |
| 2/26/2007 | 16.12 |
| February Total | 55.73 |
| 3/1/2007 | 17.54 |
| 3/7/2007 | 14.22 |
| 3/8/2007 | 14.26 |
| 3/19/2007 | 11.18 |
| 3/27/2007 | 12.3 |
| 3/29/2007 | 14.08 |
| March Total | 83.58 |
| 4/5/2007 | 12.08 |
| 4/10/2007 | 14.08 |
| 4/16/2007 | 12.3 |
| 4/20/2007 | 16.75 |
| 4/27/2007 | 11.39 |
| April Total | 66.60 |
| 5/4/2007 | 14.00 |
| 5/10/2007 | 14.42 |
| 5/17/2007 | 12.52 |
| May Total | 40.94 |
| Quarterly Total | 246.85 |

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

Status:

- a. Texas Aquatic Harvesting continues citywide canal cleaning and maintenance. C3TS is performing 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.
- c. The City of Miami has conducted three (3) 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 BMPs during the 2nd quarter of 2007. One additional class was held in January during the first

quarter. Certification exams were proctored on January 31st, April 5th, May 23rd, and May 29th.

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 hook-ups.

- b. Point Park Environmental Center

Status:

- **The Shoreline Project is completed**
- **The Seybold Project is on hold**
- **The park is now open to the public**

4. Monitoring and Research

- a. Complete special studies required under NPDES

Status: Compilation of the 2006 Annual Report (Year 3) is nearing completion.

The Florida Department of Environmental Protection (FDEP) adopted the fecal coliform Total Maximum Daily Load TMDL for Wagner Creek by secretarial order on April 10, 2007. The firm PBS&J has been contracted to assist with performing an outfall monitoring study and creating and implementing stormwater monitoring plans required by the City’s NPDES permit. The City of Miami and Miami-Dade County DERM participated in an initial information exchange with FDEP regarding TMDLs.