



*City of Miami*

CAPITAL IMPROVEMENTS PROGRAM  
WAGNER CREEK AND SEYBOLD CANAL DREDGING PROJECT  
MIAMI RIVER COMMISSION SSC QUARTERLY UPDATES FOR THE 2<sup>nd</sup> QUARTER 2009

## **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. 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.



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**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.**

a. 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 Construction is completed.**

b. 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.

**Permit Status for the Wagner Creek Seybold Canal Dredging Project**



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- Pursuant to comment reviews received from the Army Corp of Engineers, FDEP and DERM, CH2MHill incorporated their comments and resubmitted a revised 2nd Edition of the Corrective Action Plan to the respective agencies.
- The 2nd CAP submittal contained all requested information discussed during “Back and Forth” discussion of the first CAP submittal.
- Includes additional sampling event to further delineate dioxin concentrations along Wagner Creek. With further delineation, it potentially reduces elevated dioxin risk from
- 10,000 cy to 4,000 cy
- The 2nd CAP included risk analysis, structures contingency plan to protect and or repair embankments or structures if necessary.
- FDEP and USACE are in consultations with Florida Fish and Wildlife (FFW). Manatee information was submitted to FFW on 8/25/2009.
- Turbidity Control Details are addressed in the 2nd CAP.
- DERM is currently reviewing the 2nd CAP. Comments are pending.
- Access Agreement between the University of Miami and the County is pending review and signing.

### **Project Management Activities Associated with the Project**

- Engineer’s estimate is to be revised pending DERM’s acceptance of the risk analysis report. The intent of the analysis is to provide sufficient assurances that the sediments do not pose a significant health hazard and therefore could be disposed locally at a Class I lined landfill facility.
- Based on DERM’s response, the engineer’s estimate may be revised at a later date. As an estimate, the cost could be reduced by \$3-\$4 million dollars.
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### **Funding Activities Associated with the Project**

- Current funds remaining in the project stand at approximately \$2.3 million
- State Revolving Fund loans were initially considered but were deferred for a later time period.



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- SFWMD has considered reinstating \$1 million after permits are received and a dredging contractor is chosen. However, the City has to re-apply for this amount.
- Possible funding opportunities with FIND – Previous discussions with FIND Commissioners suggest interest in the project but will require historical proof to suggest that Wagner was once a natural waterway. The application process has to go through the City Grants Department for further processing.
- The City Intergovernmental Group is in the process of submitting an application for authorization to have the project included into the list of projects under the WRDA. They have reached out to CIP requesting our assistance in soliciting letters of support from stakeholders. The MRC has expressed interest in this matter.

### 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 98% complete.
- All phases of the project are expected to be completed by March 2010.

**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.



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**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 construction. This project is fully funded. The project is completed and is pending close-out.

**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 expected to be completed by December 2009.

**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



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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\*

**Status:** Envirowaste Services Group has started cleaning under its 2009 contract. The Public Works crews continue cleaning citywide inlets and outfalls. Envirowaste has replaced Waste Management as the waste hauler.

k. Inlet Retrofit for the Wagner Creek Basin\*

**Status:** No inlet retrofits took place during the first or second quarter of 2009.

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 first year of the contract is complete. The City has exercised its first option to renew for two (2) additional one-year periods. Current annual allocated budget is \$200,000 through City funds.

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



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**Status: The newly available solid waste data shown below accounts for waste removed by City and contract forces.**

Date	Tons
1/2/2009	23.65
1/12/2008	16.74
1/15/2009	18.94
1/19/2009	16.47
1/20/2009	18.83
1/22/2009	20.84
1/31/2009	21.48
<b>January Total</b>	<b>136.95</b>
2/5/2009	19.55
2/12/2009	19.10
2/17/2009	16.95
2/24/2009	19.47
<b>February Total</b>	<b>75.07</b>
3/2/2009	15.62
3/6/2009	21.15
3/13/2009	21.94
3/18/2009	23.49
3/27/2009	20.34
<b>March Total</b>	<b>102.54</b>
<b>Quarterly Total</b>	<b>314.56</b>
4/2/2009	24.62
4/3/2009	23.31
4/7/2009	18.84
4/13/2009	26.83
4/17/2009	22.90
4/22/2009	20.75
4/29/2009	21.73
<b>April Total</b>	<b>158.98</b>
5/14/2009	22.61
5/18/2009	16.94
<b>May Total</b>	<b>39.55</b>
6/1/2009	24.57
6/15/2009	21.75
6/22/2009	21.01
<b>June Total</b>	<b>67.33</b>
<b>Quarterly Total</b>	<b>265.86</b>
<b>Semi-Annual Total</b>	<b>580.42</b>



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

**Status:**

- a. Texas Aquatic Harvesting continues citywide canal cleaning and maintenance. C3TS performs 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 Parks Department has performed research on possible designs for a new structure and presented a proposed floor plan at an 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. Due to life/safety concerns, a Building Department unsafe structure inspection of the existing



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**building has been requested. If the Seybold house is found to be an unsafe structure, then it will be demolished as such.**

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

- c. On April 22, 2009 the City of Miami hosted an Earth Day open house at the Miami Riverside Center. The Public Works Department and the Office of Sustainable Initiatives shared a booth educating the public on the proper use disposal of household hazardous materials and other stormwater pollution prevention strategies.
  - d. The City of Miami conducted seminars on illicit discharge detection at the February Stormwater subcommittee meeting and at the May full Miami River Commission meeting. The seminars educated the attendees on what constitutes an illicit discharge, the environmental impact of illicit discharges, and how to report illicit discharges.
  - e. 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.
4. Monitoring and Research\*
- a. Complete special studies required under NPDES\*

**Status: The City of Miami has issued a notice to proceed to EBS Engineering dated June 29, 2009 in order to perform citywide outfall monitoring.**

**The City of Miami attended the opening meeting of the Miami-Dade County NPDES audit at Miami-Dade County DERM on May 19, 2009. During the meeting, a representative from DEP explained the Annual Report, Annual Report Audit, and NPDES permit re-application and issuance processes and highlighted upcoming changes to the State of Florida's NPDES program.**



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**The City of Miami provided comments to FDEP's draft guidance for preparing stormwater monitoring plans for Phase I municipal separate storm sewer systems.**

**The City of Miami has added the Wagner Creek watershed to the County's 311 System. Certain service requests created since the addition of the watershed to 311 in January 2009 may be queried in order to determine if they take place in Wagner Creek's watershed. The Public Works Department has met with the IT Department regarding an information request from FDEP regarding illegal dumping violations in the Wagner Creek watershed prior to the watershed's addition to the 311 system. Due to differences in design between the 311 system's database and the City of Miami's geographic information system, the information in the 311 system will have to be converted to another format before the information request can be completed.**