

MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT
3rd QUARTERLY REPORT
(NOVEMBER 5, 2003 MRC STORMWATER SUBCOMMITTEE MEETING)

Action Items

1. Storm water

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

Status: The design phase of this project is 40% completed by PBS&J. The design phase is anticipated to be completed by March 2004. Estimated total project cost is \$ 1,500,000. This project is fully funded by city local 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. 20th 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: Funding has been allocated for this project. Construction for this project is in progress and anticipated to be completed in December 2003. Estimated total project cost is \$ 256,000.

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). Phase I was completed on August 2002.

The Phase II design plans have been 80% completed by Milian Swain & Associates (MSA). However, this project was closed on July 3, 2003. Special permits required for new condominium developments of regional impact changed the characteristics of North Bayshore Drive and N.E. 18 Street. The required elevation of the new development is significantly higher than the surrounding roadway elevations causing major grade changes to these roadways and the reevaluation of a new drainage approach to this area.

e. Wagner Creek Dredging Project, Phase IV

Status: The City of Miami is awaiting approved permits from Miami-Dade County Department of Environmental Resources Management (MDC-DERM), Army Corp of Engineers (ACOE), and the Florida Department of Environmental Protection (FDEP) prior to starting the dredging activities.

The design phase is 90% completed by Consulting Engineering & Science (CES), Inc. Prior to the implementation of the dredging activities, a Corrective Action Plan (CAP) must be submitted to the Pollution Remediation Section (PRS) of MDC-DERM for approval. The CAP must include, at a minimum, the following:

- 1) a timetable for the dredging activities;
- 2) a post-dredging surface water sampling plan;
- 3) a Sediment Sampling Plan (SSP) to characterize the dredged sediment (in-situ) for proper disposal;
- 4) identification and description of the staging area for the temporary storage and drying of the dredged sediment prior to landfill disposal, which addresses issues such as site security (e.g., fence) to control human contact, collection and proper disposal of runoff water, odor control, etc.;
- 5) identification of the intended disposal site maybe a Class I Landfill. Disposal to a Class I landfill is contingent upon the additional disposal characterization sample results (item no. 3) being consistent with previous preliminary characterization sample

results completed around June 2003.

The SSP (item no. 3) included in the CAP has been completed and will be submitted to MDC-DERM by November 7, 2003. The identification of temporary spoil storage site (item no. 4) is pending. The City of Miami will have an internal meeting on November 12, 2003 to discuss possible city owned property that can be used for this purpose.

The design phase which includes permitting and the completion, submittal, and approval of the CAP is anticipated to be completed by May 2004.

However, the project schedule may be further delayed because of its dependency on the approval of the various agency permits mentioned above and possible Miami Dade County Board of County Commission approval that may be required prior to the dredging activities..

The City anticipates to group Phases IV and V together and advertise for bids subsequent to the completion of the design phase.

Estimated total project cost is \$ 1,812,000. This phase has been fully funded by local city funds supplemented with a SFWMD grant in the amount of \$ 1,000,000 that will be utilized for phases IV and V.

The project limits are along Wagner Creek between 14th Avenue and N.W. 15th Street.

f. Wagner Creek Dredging Project, Phase V

Status: The City of Miami is awaiting approved permits from Miami-Dade County Department of Environmental Resources Management (MDC-DERM), Army Corp of Engineers (ACOE), and the Florida Department of Environmental Protection (FDEP) prior to starting the dredging activities.

The design phase is 90% completed by Consulting Engineering & Science (CES), Inc. Prior to the implementation of the dredging activities, a Corrective Action Plan (CAP) must be submitted to the Pollution Remediation Section (PRS) of MDC-DERM for approval. The CAP must include, at a minimum, the following:

- 1) a timetable for the dredging activities;
- 2) a post-dredging surface water sampling plan;
- 3) a Sediment Sampling Plan (SSP) to characterize the dredged sediment (in-situ) for proper disposal;
- 4) identification and description of the staging area for the temporary storage and drying of the dredged sediment prior to landfill disposal, which addresses issues such as site security (e.g., fence) to control human contact, collection and proper disposal of runoff water, odor control, etc.;
- 5) identification of the intended disposal site maybe a Class I Landfill. Disposal to a Class I landfill is contingent upon the additional disposal characterization sample results (item no. 3) being consistent with previous preliminary characterization sample results completed around June 2003.

The SSP (item no. 3) included in the CAP has been completed and will be submitted to MDC-DERM by November 7, 2003. The identification of temporary spoil storage site (item no. 4) is pending. The City of Miami will have an internal meeting on November 12, 2003 to discuss possible city owned property that can be used for this purpose.

The design phase which includes permitting and the completion, submittal, and approval of the CAP is anticipated to be completed by May 2004.

However, the project schedule may be further delayed because of its dependency on the approval of the various agency permits mentioned above and possible Miami Dade County Board of County Commission approval that may be required prior to the dredging activities..

The City anticipates to group Phases IV and V together and advertise for bids subsequent to the completion of the design phase.

Estimated total project cost is \$ 2,530,215. This phase has been fully funded by local city funds supplemented with a SFWMD grant in the amount of \$ 1,000,000 that will be utilized for phases IV and V.

The project limits are along Wagner Creek between 15th Street and N.W. 11th Street.

g. Wagner Creek Dredging Project, Phase III

Status: This project is currently under design by PHS Engineering Corp., the city consultants. The design phase is 30% completed. Design and permitting is anticipated to be completed by July 2004. Phase III will require the preparation, completion, and approval of a CAP as was needed for Phases IV and V. The estimated total project cost is \$ 1,230,000. This project is fully funded by a combination of Federal Emergency Management Agency (FEMA), State, and local City funds.

The project limits are along Wagner Creek between 20th Street and N.W. 14th Avenue.

h. Install solid waste interceptors at all Miami River Outfalls

Status: The City of Miami is not currently utilizing solid waste interceptors in their projects. However, the City does retrofit storm sewer systems outfalling to waterways with pollution retardant control devices (baffle boxes) which inhibit oil and greases from entering the waterways. The devices are not designed to capture solid debris such as trash, etc.

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

Status: The City of Miami will Piggy-Back a contract amount of \$697,500 with Miami-Dade County on the existing Contract No. 629528 with Envirowaste Service Group, Inc., to clean up 20,000 inlets and 160,630 lineal feet of pipe of its storm drain system during the period 9/29/03 thru 6/9/04.

As of October 25, 2003, Envirowaste has cleaned under this contract 252 catch basins, 68 manholes, and 25,900 lineal feet of pipe.

The City has also secured the services of a consultant firm (Marlin Engineering, Inc.), to perform the required inspection and report services for a contract amount of \$198,900.

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

Status: It is the City's policy to use Best Management Practices (BMP's) for erosion and sedimentation control in all proposed Engineering Design Plans. The City of Miami Department of Public Works regulates the BMP's through its NPDES Program. BMP's utilized during the construction phase of projects are the following: silt fences, the filtering of turbid water during dewatering processes, floating turbidity barriers, straw bale barriers, block and gravel drop inlet sediment filters and high pressure water cleaning combined with temporary gravel construction entrance.

2. Wastewater

a. Conduct "dye flood" study

Status: The City of Miami is actively disconnecting illegal connections between storm water and sanitary sewer systems as identified within city limits by MDWASD.

The illegal connection locations listed below were disconnected under a city contract completed by Metro Express, Inc. on June 2002:

- 1) NE 79 Street and NE 3 Court
- 2) 2005 SW 3 Street
- 3) 2175 NE 2 Avenue
- 4) NW 18 Avenue and NW 1 Street
- 5) 101 SW 26 Road

3. Enforcement, compliance and education

c. Implement active inspection of sanitary sewer connections and storm water drainage during construction

Status: The City of Miami is regularly inspecting 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.

g. Point Park Environmental Center

Status: The Resolution authorizing submission of Joint Grant Application

with Miami-Dade County DERM for funding for the proposed work at Spring Garden Point Park was submitted and approval by City Commission on January 23, 2003. This month of September, 2003 FIND awarded the grant to Spring Garden Point Park in the amount of \$138,000.

A lease agreement is required between the State of Florida and City of Miami for use of the sovereign submerged land adjacent to the park. The lease is in the process of being drafted by the State for submittal to the City for review and approval.

4. Monitoring and Research

b. Complete special studies required under NPDES

Status: On November 24, 2003 , the City of Miami Public Works will hold a class to train and certify selected city staff for storm water, erosion, and sedimentation control inspections as required by the NPDES permit. In addition, this department will require consulting engineering designers to implement the necessary BMP's (such as BMP notes and details) in the construction drawings for public works and capital improvement projects and contractors to implement these BMP's during construction.

In addition, on August 28, 2003, selected city staff had attended a one-day Watershed Protection Workshop (Part 1) on Total Maximum Daily Loads (TMDL's) hosted by the Florida Stormwater Association in Sarasota, Florida which is also a requirement of the NPDES permit. This workshop will provide city staff with BMP's for TMDL's and how it will impact our community. On December 3, 2003, selected city staff will attend a 3-day seminar (Part 2) on TMDL's as a continuation to the previous workshop.

c. Extend the storm water bacterial survey farther upstream

Status: The City of Miami Public Works Department submitted to MDWASD the city's storm sewer system contributing to the Wagner Creek outfalls. MDWASD has incorporated their sanitary sewer system on the submitted drawings. These drawings will be useful in selecting locations for water sampling and testing to detect bacterial contamination farther upstream in the Wagner Creek basin. This task is fully funded by SFWMD in the amount of \$ 50,000 for research to determine high levels of fecal coliform bacteria in Wagner

Creek.