

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Water Resource Management

SOUTHEAST • GROUP 4 BASIN • 2005

Water Quality Status Report

Biscayne Bay–Southeast Coast



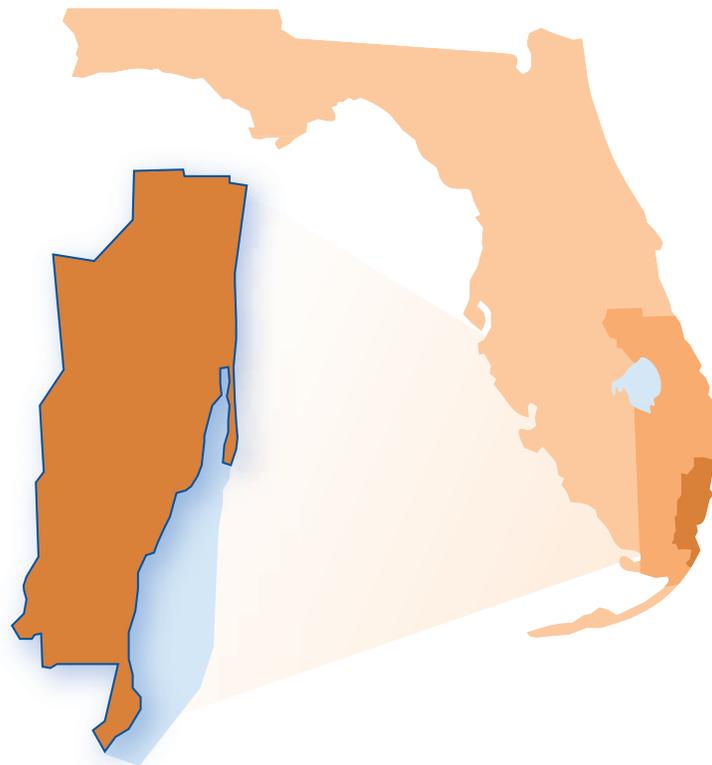


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Acknowledgments

The *Biscayne Bay–Southeast Coast Water Quality Status Report* was prepared by the Southeast District Basin Team of the Florida Department of Environmental Protection, as part of a five-year cycle to restore and protect Florida’s water quality. Team members include the following:

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Web Sites

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TMDL Program

<http://www.dep.state.fl.us/water/tmdl/index.htm>

Identification of Impaired Surface Waters Rule

<http://www.dep.state.fl.us/water/tmdl/docs/AmendedIWR.pdf>

STORET Program

<http://www.dep.state.fl.us/water/storet/index.htm>

2002 305(b) Report

http://www.dep.state.fl.us/water/docs/2002_305b.pdf

Criteria for Surface Water Quality Classifications

<http://www.dep.state.fl.us/legal/Rules/rulelistnum.htm>

U.S. Environmental Protection Agency's National STORET Program

<http://www.epa.gov/storet/>

Preface

Content Features

- **Executive Summary:** Appears at the beginning of every report and provides an overview of the watershed management, its implementation, and how this approach will be used to identify impaired waters.
- **Sidebar:** Appears throughout the report and provides additional information pertinent to the text on that page.
- **Noteworthy:** Appears on pages near text that needs additional information but is too lengthy to fit in a sidebar.
- **Definitions:** Appear where scientific terms occur that may not be familiar to all readers. The word being defined is bold-faced in the text.
- **References:** Appear at the end of Chapter 5 and provide a complete listing of all sources used in the text.
- **Appendices:** Appear at the end of the report and provide additional information on a range of subjects such as bioassessment methodology, rainfall and stream flow, types of natural communities, STORET stations, water quality statistics, land use, and permitted facilities.



Executive Summary

Biscayne Bay–Southeast Coast

The Water Quality Status Report for the Biscayne Bay–Southeast Coast Basins was produced in Phase 1 of the Florida Department of Environmental Protection’s (Department) watershed approach for restoring and protecting water resources and in addressing Total Maximum Daily Load (TMDL) Program requirements. The watershed approach provides a framework for implementing the requirements of the 1999 Florida Watershed Restoration Act (FWRA) and Section 303(d) of the federal Clean Water Act.

The report provides a preliminary evaluation of the status of water quality and associated ecological health in the area of southeastern Florida that includes the drainage basins of Biscayne Bay, as well as other parts of eastern Miami-Dade and Broward Counties. This area has been designated as the Biscayne Bay–Southeast Coast Basin Group. The Status Report includes a summary of basin conditions, identifies potential water quality concerns and water quality monitoring needs, and provides information about plans and projects underway or projected to improve water quality. The TMDL Program will be closely coordinated with such efforts as the Comprehensive Everglades Restoration Program, the Biscayne Bay Restoration Program, and other significant efforts to improve water quality in these basins.

Throughout its watershed management activities, the Department works with regional and local interests to support programs that are improving water quality and restoring and protecting ecological resources. In this area, state, federal, regional, and local agencies and organizations are highly involved in identifying problems and improving water quality. These include the South Florida Water Management District (SFWMD); U.S. Army Corps of Engineers; Department’s Southeast District offices in West Palm Beach and Port St. Lucie; Florida Department of Agriculture and Consumer Services; and Miami-Dade and Broward Counties, as well as municipalities and water control districts.

Total Maximum Daily Loads Program

A TMDL represents the maximum amount of a pollutant that a waterbody can assimilate and still meet the waterbody’s designated beneficial uses. A waterbody that does not meet its designated beneficial uses is defined as impaired. During the next few years, considerable data collection and analysis will be done to establish TMDLs for impaired waterbodies in these basins and to establish initial allocations of pollutant loads needed to meet TMDLs. A watershed management plan to reduce the amount of pollutants that cause impairments will also be produced. These



activities depend on the participation of the water management district, local governments, businesses, and other watershed stakeholders. The Department will work with these groups and individuals to undertake or continue reductions in the discharge of pollutants and achieve the established TMDLs for impaired waterbodies.

This Status Report provides a preliminary identification of impaired waterbodies in the Biscayne Bay–Southeast Coast Basins that may require establishment of TMDLs. The preliminary assessment, based on readily available data, will be revised as additional data are evaluated. The report broadly characterizes the surface water and ground water resources, permitted discharges, and land uses of the area and describes historical, current, and proposed watershed management activities. Tables in Chapters 3 and 4 include the current *Planning List* of potentially impaired waterbodies as well as other summary information from the preliminary assessment of water quality.

The information in this report is being used to identify waterbodies and parameters for which additional data are needed to verify water quality impairments. Data gathering and monitoring will then be focused on these potentially impaired waters. Following this, data will be reevaluated and reassessed, and in the summer of 2005 the Department will present a list of waterbodies for which impairments have been verified and for which TMDLs will be developed. The *Verified List* of impaired waterbodies will be adopted by Secretarial Order in accordance with the FWRA. Once adopted, the list will be submitted to the U.S. Environmental Protection Agency for approval as the state’s Section 303(d) list for these basins.

Summary of Findings

Water quality in Biscayne Bay, other estuarine and coastal waters, as well as canals, lakes, and streams of this area is mainly affected by urban and agricultural stormwater runoff within the basins and by the transport of lower quality water from adjacent basins. Water quality concerns in the waterbodies of these basins identified in this preliminary evaluation include those related to low levels of dissolved oxygen, excessive nutrients, metals (copper, mercury, and lead), elevated levels of bacteria, and turbidity. Most of the data contained in this assessment are from the national **STO**rage and **RETR**ieval database and the DBHydro database maintained by the SFWMD. The period of record for the data used in this assessment is January 1, 1993, to December 31, 2002.

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Chapter 1: Introduction

Purposes and Content of the Status Report

The Florida Department of Environmental Protection (Department) is implementing a statewide watershed management approach for restoring and protecting water quality and addressing **Total Maximum Daily Load** (TMDL) Program requirements. Under Section 303(d) of the federal Clean Water Act and the 1999 Florida Watershed Restoration Act (FWRA), TMDLs must be developed for all waterbodies that do not meet their designated uses (such as drinking water, recreation, and shellfish harvesting) and are thus defined as impaired.

TMDLs will be developed, and the corresponding reductions in pollutant loads allocated, as part of the watershed management approach, which rotates through the state's 52 river basins over a 5-year cycle. Participation by stakeholders in each of these basins will be crucial throughout the different phases of the cycle for the program to be successful in restoring water quality of waterbodies that are impaired. A detailed description of the legislative and regulatory background for TMDL development and implementation through the watershed management approach is available in **Appendix A**. Background information on the Department's TMDL Program, TMDL development and implementation schedules, lists of impaired and potentially impaired waters, and assessments for other parts of the state are available at <http://www.dep.state.fl.us/water/tmdl/index.htm>.

This report presents a *Planning List* of potentially impaired waterbodies, identifies general water quality monitoring needs, and provides an overview of water quality restoration plans and projects (see **Noteworthy** for a description of the contents of the Status Report, by chapter). It is intended for distribution to an audience of potential stakeholders, including decision makers from federal, state, regional, tribal, and local governments; public and private interests; and individual citizens.

To be placed on the Planning List, waterbodies must meet specific data sufficiency and data quality requirements in the state's Identification of Impaired Surface Waters Rule (IWR). Developed in cooperation with a Technical Advisory Committee, the IWR provides a science-based methodology for identifying impaired waters. The rule addresses chemical parameters, interpretation of narrative nutrients criteria, biological impairment, fish consumption advisories, and ecological impairment. The complete text of the IWR is available at <http://www.dep.state.fl.us/water/tmdl/index.htm>.

The Status Report will be followed by a period of monitoring and data gathering and an Assessment Report that documents the results of a detailed assessment of water quality. The Assessment Report will include



Total Maximum Daily Load

The maximum amount of a given pollutant that a waterbody can assimilate and remain healthy, such that all of its designated uses are met.



The Planning and Verified Lists

The Planning List is the list of surface waterbodies or segments for which TMDL assessments will be conducted to evaluate whether the water is impaired and a TMDL is needed, as provided in Subsection 403.067(2), F.S.

The Verified List is the list of impaired waterbodies or segments for which TMDLs will be calculated, as provided in Subsection 403.067(4), F.S., and which will be submitted to EPA pursuant to Section 303(d)1.c of the federal Clean Water Act.

additional data gathered from other agencies and groups doing monitoring in the basin and from the Department's own strategic monitoring, a more complete evaluation of water quality and biological resources, and a designated use attainment assessment for basin waters. The assessment will contain a *Verified List* of impaired waterbodies required by the FWRA and Section 303(d) of the federal Clean Water Act.

The Department will adopt the Verified List in accordance with the 1999 FWRA (Section 403.067, Florida Statutes, [F.S.]) and the IWR (Chapter 62-303, Florida Administrative Code). Once adopted, the list is submitted to the U.S. Environmental Protection Agency (EPA) and becomes the 303(d) list of impaired waterbodies for the basin.

The first list was required by the EPA in 1998 and is to be amended biannually to include updates. Florida's 1998 303(d) list included several waterbodies in the Biscayne Bay–Southeast Coast Basin. These waterbodies are identified in Chapter 3. The most recent update of the 303(d) list was issued for the first group of basins in October 2002.

This Status Report complies with the EPA's guidance for meeting Clean Water Act requirements for Section 305(b) water quality reports and Section 303(d) lists through a *2002 Integrated Water Quality Monitoring and Assessment Report*, also referred to as the Integrated Report (Wayland, 2001). The integrated water quality assessment is used to identify the status of data sufficiency, the potential for impairment, and the need for TMDL development for each waterbody or waterbody segment.

Coordination with South Florida Water Management District in Implementing the Total Maximum Daily Load Program

The goals of the Department's TMDL program—to identify impaired waterbodies, develop targets for restoration, and establish a watershed management framework to improve water quality—complement water management district programs existing and underway.

For many years, the South Florida Water Management District (SFWMD) has exercised responsibilities related to water supply, floodplain protection and management, water quality, and protection of natural systems. The water management district has been the lead state/regional agency involved with the Comprehensive Everglades Restoration Program (CERP) and, with the U.S. Army Corps of Engineers, the Department, and others, has developed a plan that includes regional solutions that will modify the distribution of water in part of the basin group and improve water quality in some instances. More detailed descriptions of the CERP program activities are provided in Chapter 2 of this report.

Throughout the various phases of this cycle, the Department and SFWMD will continue to work together in identifying, verifying, and addressing impaired waterbodies.

The Watershed Management Cycle in the Florida Department of Environmental Protection's Southeast District

Figure 1.1 shows the order in which the Department's Southeast District basin groups will be evaluated under the watershed management cycle. These groups are located within several hydrologic units as defined by the U.S. Geological Survey. The Lake Okeechobee Basin, comprising Group 1 for the Department's Southeast District and the first to have been assessed, includes waterbodies within the Lake Okeechobee and Taylor Creek hydrologic units. The Lake Okeechobee Group 1 basin is the subject of a Status Report completed in 2001, TMDLs for impaired waterbodies were completed in 2003, and water quality improvement measures are in progress. Group 2 includes watersheds that are located within parts of the St. Johns River–Upper, Indian River–South, and Southeast Florida Coast hydrologic units (identified as the St. Lucie–Loxahatchee Basin Group 2 area). The Group 2 Status Report for the Southeast District was completed and a Verified List of waters that need TMDLs was produced in 2003. The Group 3 Status Report was completed in early 2003. Groups 3, 4, and 5 areas are all located in the Southeast Florida Coast hydrologic unit. This Status Report focuses on Group 4 (identified as the Biscayne Bay–Southeast Coast area) and includes the Planning List for this area.

Preliminary assessment of the Group 5 area (which includes the Everglades) has already begun. In 2005, the cycle will return to the Group 1 Basin, Lake Okeechobee.



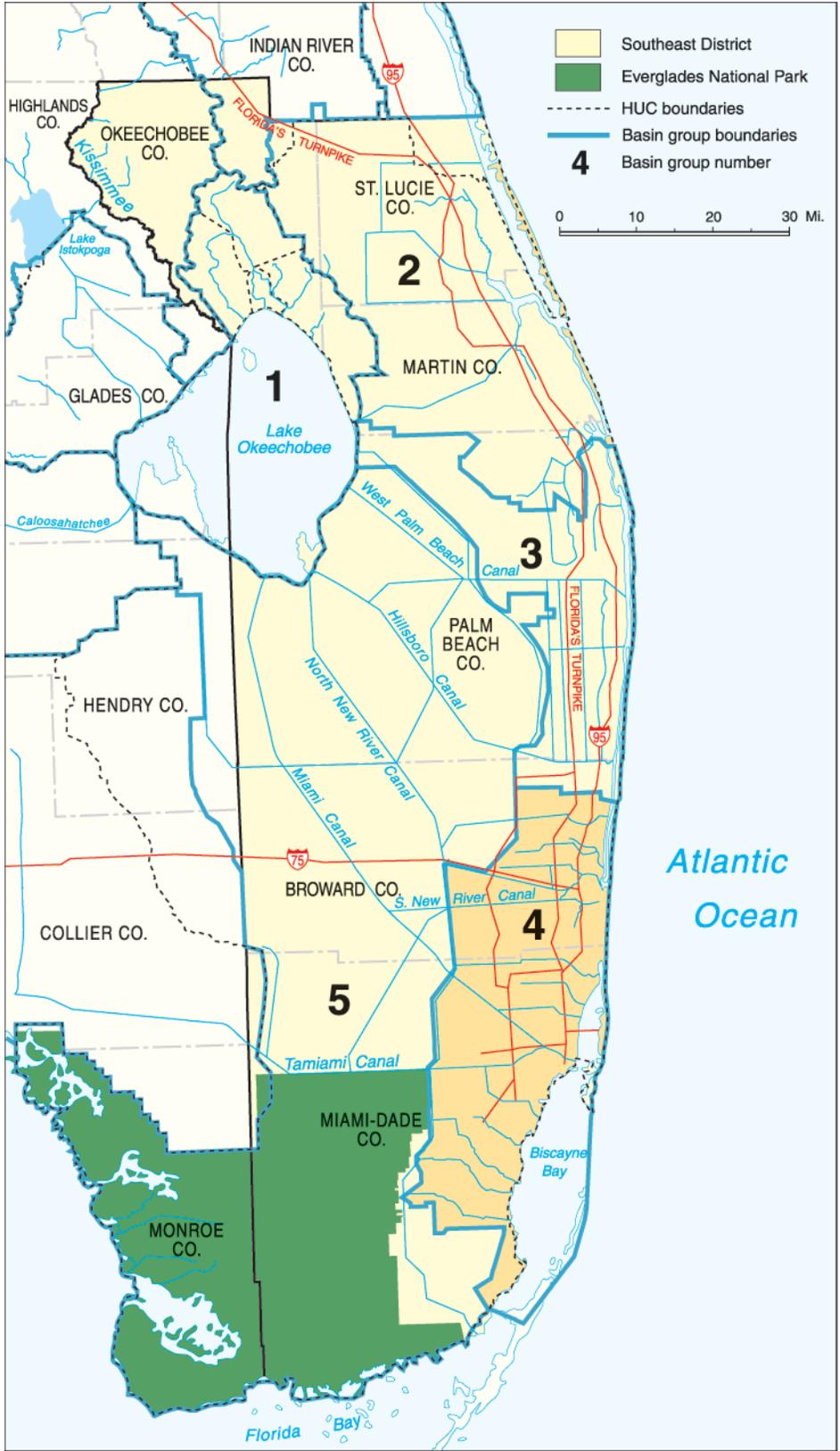


Figure 1.1: Schedule for Implementing the Watershed Management Cycle in the Department’s Southeast District, Basin Groups 1 through 5

Contents of This Report

- **Chapter 1: Introduction** briefly characterizes the purpose and content of the Status Report, discusses stakeholder involvement, and describes how the watershed management cycle will be implemented in the Department’s Southeast District.
- **Chapter 2: Basin Overview** characterizes the basin’s general setting, surface water and ground water resources, and watershed management activities and processes.
- **Chapter 3: Preliminary Surface Water Quality Assessment** provides, by basin planning unit, an evaluation of water quality, a discussion of permitted discharges and land uses, a summary of ecological priorities and problems, and an overview of water quality improvement plans and projects.
- **Chapter 4: Planning List of Potentially Impaired Waters** contains the Planning List of potentially impaired waterbodies. It also describes the relationship between the Planning and Verified Lists, and summarizes water quality findings for the basin.
- **Chapter 5: Strategic Monitoring and Data Evaluation** summarizes strategic monitoring and data evaluation priorities and objectives that are critical to the development of the Verified List of impaired waters during the next phase of the watershed management cycle. It includes a general inventory of monitoring and data-gathering activities by other groups and programs that could be incorporated into the assessment.



Chapter 2: Basin Overview

Basin Setting

The Biscayne Bay–Southeast Coast Group 4 assessment area includes much of the Lower East Coast region of the state. It includes most of the eastern portion of Broward County from the C-14 Basin south to Miami-Dade County and the eastern portion of Miami-Dade County from Broward County to Monroe County, as well as a small area of northeastern Monroe County. Its boundary extends from the Everglades Water Conservation Areas (WCA) (WCA-2 and -3) and Everglades National Park on the western side and to the Atlantic Ocean. This basin group also includes Biscayne Bay, the Atlantic Intracoastal Waterway (AICW), and nearshore coastal waters of the Atlantic Ocean. The Group 4 area includes approximately 1,200 square miles (**Figure 2.1**).

Biscayne Bay is the major estuarine resource of Miami-Dade County. The drainage basins immediately surrounding the Bay and emptying into it, as well as the basins that contribute water to the major conveyance canals, potentially impact its water quality and ecological balance. Stormwater pollutants, excessive freshwater inflows from canals, dredging and hydrologic modifications, plus the bulkheading along the Biscayne Bay shoreline continue to present problems. According to the *Biscayne Bay Partnership Initiative* (January 2001) the most important challenges today regarding water and sediment quality are the loss of wetland and seagrass communities due to physical and ecological water quality changes. This includes increased turbidity and inputs of dissolved nutrients, trace metals, organic chemicals, and particulates through stormwater run off from agricultural and urban areas, canal discharge, and discharges from industrial facilities or vessels.

The coastal areas of Broward and Miami-Dade Counties were first to be developed because of the natural coastal ridge that historically existed as well-drained, habitable land. Over the years, drainage improvements made land to the west of the coastal ridge suitable for development. Much of the land to the west of the urban coastal area is now covered by urban development that depends on a network of canals to make it habitable. South of the urban Miami-Dade County area is land dominated by agricultural uses. Most runoff from these urban/residential and agricultural lands enters the canal systems and is ultimately conveyed to the AICW or Biscayne Bay via secondary canals operated by water control districts and Broward and Miami-Dade Counties and the major canals maintained by the South Florida Water Management District (SFWMD). Some of these canals also discharge to the WCAs to the west of this basin group. Control structures and pumping stations are used to maintain levels, regulate and



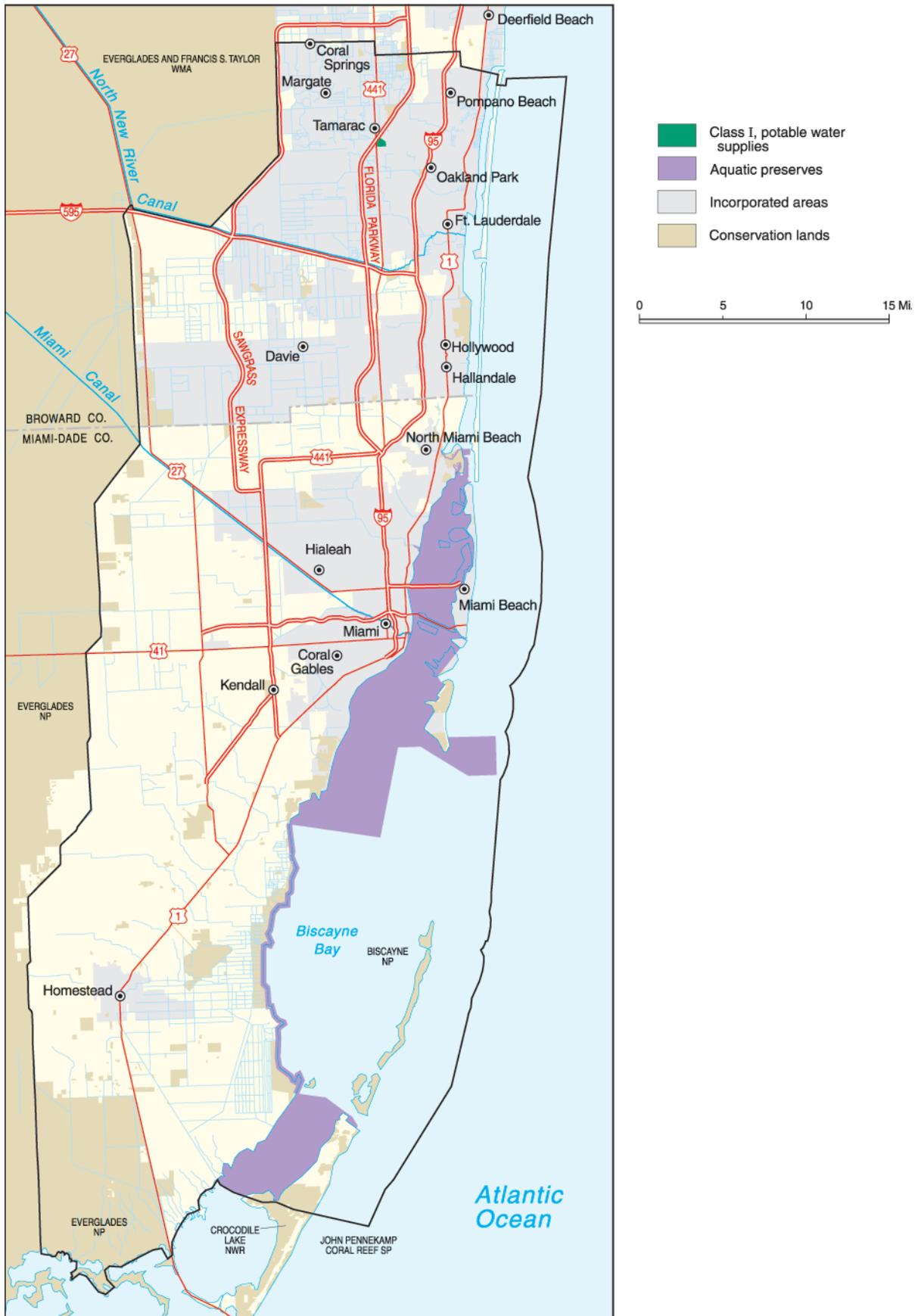


Figure 2.1: Map of the Biscayne Bay–Southeast Coast Basin Group

divert flow within canals to accommodate needs for flood control, irrigation, and ground water recharge to prevent saltwater intrusion.

Eastern Broward County and northeastern and east-central Miami-Dade County include the most heavily developed urban areas of these counties and include some of the more heavily urbanized areas in the state. According to the year 2000 census conducted by the U.S. Census Bureau, Miami-Dade County had an average population density of 1,157.9 people per square mile and Broward County had an average population density of 1,346.5 people per square mile. Over the 1990–2000 census period, the population grew in Broward County by approximately 29 percent, and the population grew in Miami-Dade County by approximately 16 percent.

Land use has a significant impact on surface water quality. Urban development within Broward County and the northern part of Miami-Dade County (excluding coastal areas) constitutes approximately 49 percent of the total land area. Stormwater runoff from intensively developed properties and roadways, hydrologic modifications, and wastewater from unsewered areas pose the greatest threats to water quality in these areas.

In the southern part of Miami-Dade County, agriculture is a significant land use (approximately 14 percent of the total land area), although urban sprawl is beginning to encroach and take over many formerly agricultural lands. Most agricultural lands in Broward, existing in the western part of the county, have transitioned to urban/residential development and agriculture in Broward County is no longer a significant land use. Fertilizer and agrichemical applications and eroded sediment that are conveyed into canals in this region constitute the greatest concerns to surface water quality in the canals and receiving estuary.

As stated previously, the coastal region was developed first and remains the most densely developed. This area constitutes a band that extends from the northern Broward County line to south Miami. This area is essentially built-out, which has forced development to spread eastward and southward. The infrastructure to convey stormwater and sewage in many of these coastal areas is outdated and not environmentally protective. Direct discharges of untreated stormwater to the AICW and Biscayne Bay from intensively developed commercial and industrial properties are a concern to local stormwater managers.

Surface Water Resources

This area includes the coastal ridge and an area that would naturally exist as flatwoods and lowlands to the west. Most of the lower southeast coast of Florida is nearly level and was subject to severe flooding prior to the drainage modifications that led to development. Under the Central and Southern Florida (C&SF) project of 1948, the U.S. Congress authorized the U.S. Army Corps of Engineers (USACOE) to implement a major regional drainage and flood control program. The C&SF program and accompanying smaller-scale drainage projects significantly altered the hydrology and led to alteration of the area's landscape as wetlands were



Sources of Information

Much of the information about the Biscayne Bay–Southeast Coast area in this chapter was obtained from the references listed below:

- *The Comprehensive Everglades Restoration Plan (CERP) Web site (<http://www.evergladesplan.org/>)*
- *Ecosummaries for Miami-Dade County waterbodies (Biscayne Bay) at <http://www.dep.state.fl.us/southeast/ecosum/ecosummain.htm>*
- *Biscayne Bay Partnership Initiative (January 2001)*
- *Broward County, Florida Historical Water Quality Atlas (1972–1997), Broward County Department of Planning and Environmental Protection*
- *The Southeast Florida Environment—A Region Under Stress (1992), USGS Circular 1134*

Other references used are individually cited in this chapter.



drained, natural drainage features were modified, and land was converted to the urban/residential and agricultural land uses of today.

Drainage Basins

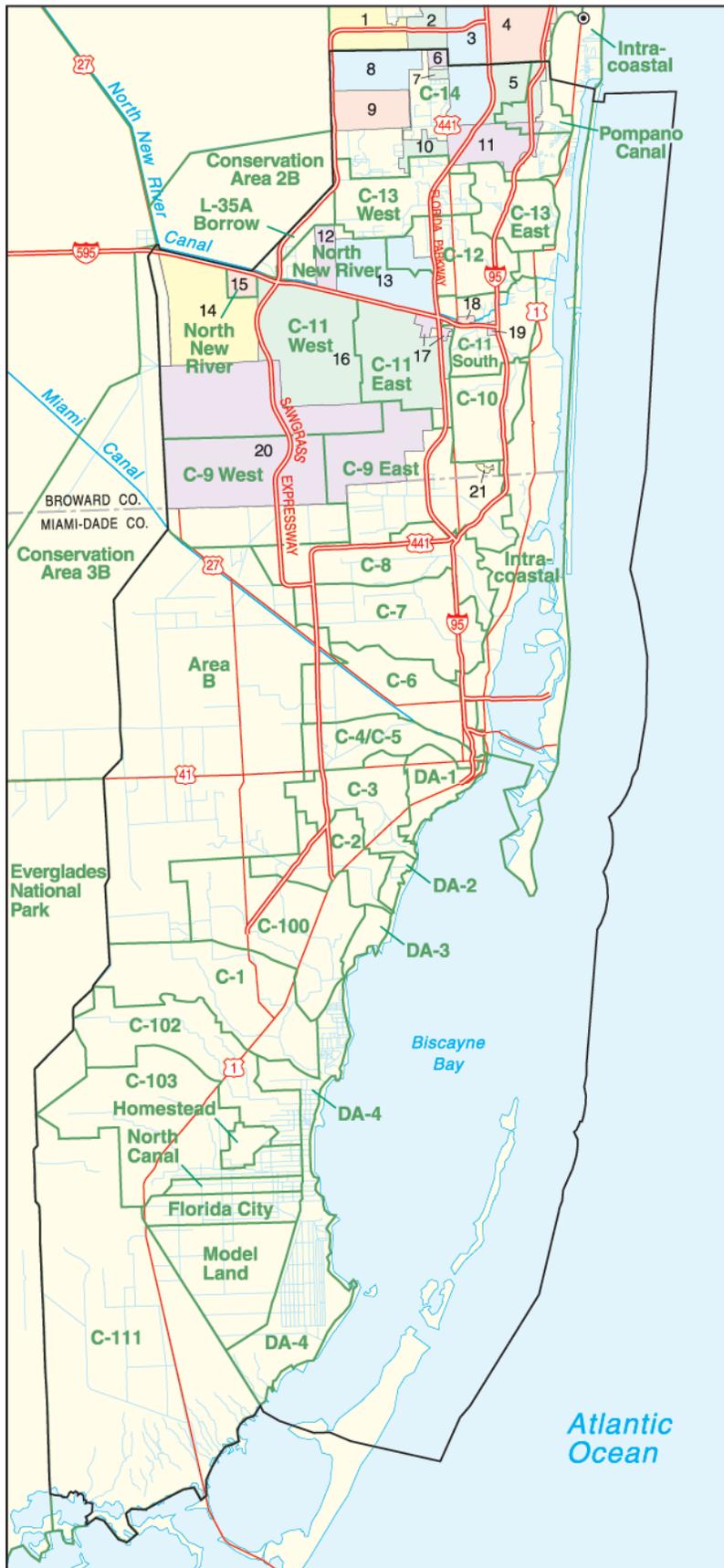
The drainage basins in the Biscayne Bay–Southeast Coast area are shown in **Figure 2.2**. The USACOE originally delineated the surface water management basins in this area in the 1950s under the C&SF project to provide flood control. Based on the hydrology of these basins, a system of canals, levees, and control structures was constructed to provide flood protection for southeastern Florida. As part of the C&SF project, several major water conveyance canals were constructed in the Group 4 area. Information on these canals, shown in **Figure 2.2**, is summarized in **Table 2.1**.

Primary canals in South Florida are regulated and maintained by the SFWMD. Management and regulation of secondary canals within the drainage basins are responsibilities of county governments or water control districts. Water control districts were established or ratified under Chapter 298, Florida Statutes (F.S.), and operate as distinct entities that work in cooperation with SFWMD and county governments to provide consistency in level of service to this entire area. Water control districts of this area are shown in **Figure 2.2**.

Biscayne Bay

Biscayne Bay is a subtropical estuary located in Miami-Dade and Monroe Counties. The bay is 55 miles long and varies from 1 to 10 miles in width and 1 to 10 feet in depth. In some areas, where dredging has occurred, the depth ranges from 30 to 40 feet. Biscayne Bay was in relatively natural conditions in 1896. Freshwater inputs to the Bay came from small creeks and the Miami River. Major development of the area began in 1905 with the construction of an artificial inlet called Government Cut for shipping purposes. The 1920s brought significant development with the construction of causeways and another artificial inlet, Baker's Haulover, in 1925. Causeway construction and inlet dredging changed the circulation and salinity patterns in the Bay. Drainage canals were cut westward from the bay, which allowed for additional freshwater inflows. Greater inputs of freshwater began entering the Bay with the construction of the C&SF canals in the 1950s.

Part of Biscayne Bay is a State Aquatic Preserve and a state critical wildlife area, and almost all of it is an Outstanding Florida Water (OFW). As such, these areas are subject to some of the most stringent water quality and submerged lands regulations in the state. The Bay is divided into three major regions: north, central, and south. North Biscayne Bay extends from the Broward/Miami-Dade County line south to the Rickenbacker Causeway. This area of the Bay is surrounded by urban development and influenced by the Oleta River and the major drainage canals in northern Miami-Dade County. The Central Bay extends from Rickenbacker Causeway south to Black Point. Several of the major canals also influence this segment; however, urban development is less dense. The South Bay segment extends southward from Black Point to Barnes Sound and includes



Water Control Districts (WCD)

- 1 North Springs Improvement District
- 2 Pine Tree Water Control District
- 3 Cocomar Water Control District
- 4 Broward County Water Control District #2
- 5 Broward County Water Control District #3
- 6 Turtle Run Community Development District
- 7 Coral Bay Community Development District
- 8 Sunshine Water Control District
- 9 Coral Springs Improvement District
- 10 North Water Control District
- 11 Broward County Water Control District #4
- 12 Plantation Acres Improvement District
- 13 Old Plantation Water Control District
- 14 Indian Trace Community Development District
- 15 West Lauderdale Water Control District
- 16 Central Broward Drainage District
- 17 Tindall Hammock Irrigation and Soil Conservation District
- 18 Lauderdale Isles Water Control District
- 19 Ravenswood Water Control District
- 20 South Broward Drainage District
- 21 Twin Lakes Water Control District

— Drainage basin boundary

C-16 Drainage basin name



Figure 2.2: Drainage Basins and Water Control Districts of the Biscayne Bay–Southeast Coast Basin Group

Table 2.1: Information on Major Canals in Biscayne Bay–Southeast Coast Basin Group

Canals	Basin Description	Approximate Drainage Area (Sq mi)	Receiving Waterbody
C-14/Cypress Creek and Pompano Canals	Northern Broward urban area including Tamarac, Coral Springs, Margate, North Lauderdale, Pompano Beach	66	Atlantic Intracoastal Waterway (AICW) of Broward
C-13/Middle River Canal	Central Broward urban area including Sunrise, Lauderhill, Lauderdale Lakes, Oakland Park, Wilton Manors	34	AICW of Broward
C-12/Plantation Canal	Central Broward urban area including Plantation, Lauderhill, Ft. Lauderdale	16	AICW of Broward
North New River Canal	Central Broward urban area including Plantation, Davie, Ft. Lauderdale	32	AICW of Broward
C-11/South New River Canal	South-central Broward urban and suburban areas including unincorporated areas, Davie, Cooper City	168	AICW of Broward (eastern flow) and Everglades Water Conservation Areas (western flow)
C-10/Hollywood Canal	Southern Broward urban and suburban areas including Hollywood and Dania	13	AICW of Broward
C-9/Snake Creek Canal	Southern Broward and Northern Miami-Dade County urban area that includes Pembroke Pines, North Miami Beach, and a large unincorporated area of northern Miami-Dade	102	AICW of northern Dade, northern end of Biscayne Bay
C-8/Biscayne Canal	Northern Dade urban area that includes large unincorporated area, North Miami, Hialeah	27	Northern Biscayne Bay
C-7/Little River Canal	Northern Dade urban area that includes Hialeah and Miami	32	Northern Biscayne Bay
C-6/Miami Canal	Northern Dade urban area including unincorporated county, Medley, Miami Springs, Miami	68	Northern Biscayne Bay
C-5/Comfort Canal	Northern Dade unincorporated urban area plus city of Miami	2	Northern Biscayne Bay
C-4/Tamiami Canal	Northern Dade unincorporated urban area	79	Northern Biscayne Bay
C-3/Coral Gables Canal	Northern Dade urban area including unincorporated county and Coral Gables	16	Central Biscayne Bay
C-2/Snapper Creek Canal	Unincorporated central Dade urban and suburban area	56	Central Biscayne Bay
C-100 Canal	Unincorporated south-central Dade urban and agricultural area	40	South Biscayne Bay
C-102 Canal	Unincorporated southern Dade agricultural area	33	Southern Biscayne Bay
C-103 Canal	Unincorporated southern Dade agricultural area also draining Homestead and Leisure City	47	Southern Biscayne Bay
C-111 Canal	Unincorporated southern Dade agricultural area adjacent to the Everglades	150	Barnes Sound and Southern Biscayne Bay

Biscayne National Park. Several C&SF canals that drain both agricultural and urban areas discharge to the South Bay.

The canals discharging to the north, central, and south parts of the Bay significantly affect the timing and distribution of freshwater deliveries into the Bay. These conveyance systems also carry stormwater runoff from lands adjacent to the Bay that contains a variety of land-based pollutants, including nutrients and suspended solids. Marinas also can be sources of sewage pollution, solid waste dumping, fuel and oil pollution, and heavy metals accumulation. In addition, construction and coastal development as well as dredging have put stress on the Bay. Despite these impacts, Biscayne Bay overall remains highly productive. It supports extensive seagrass beds and diverse fisheries resources, and provides habitat for a variety of endangered or threatened species.

New River

The New River, nearly 30 miles long, flows throughout urban Broward County and is a significant cultural and ecological resource. The North Fork is a shallow, meandering tributary of the river, extending through the northwest section of the city of Ft. Lauderdale, while the Las Olas Isles area is a series of human-made islands located along Las Olas Boulevard in east-central Ft. Lauderdale. The South Fork is composed of 2 drainage tributaries that join and converge with the North Fork.

Today the New River is in desperate need of repair. This once crystal-line waterway has deteriorated under the strains of immense growth. Water quality has been adversely affected from debris, sedimentation, stormwater runoff, and other pollutants. Inappropriate land uses near the water have also contributed to the decline of the river and its tributaries. This degradation of water quality and habitat represent a negative impact on the environment, health, and economy of the Broward County metropolitan area.

In 1991, the Broward County Department of Natural Resource Protection (DNRP) initiated a water quality assessment study of the New River. The project was intended to evaluate the nature and extent of water quality issues associated with the New River. The study focused on the water quality of the North Fork, elevated levels of bacteria in the Las Olas Isles area, and surface flow in the basin of the South Fork. The New River Study Final Report concluded the New River faces a variety of environmental and ecological problems. Results of the study prompted the DNRP to design a plan to help restore the river to a more pristine condition. Activities in the plan include

- Calling on 1000 Friends of Florida to organize and help support a “Greenway” program focused on linking conservation, recreational, historic, and educational points of interest through canoe trails, bike and hiking paths, and water taxis.
- Partnering with area marinas and boatyards to create a best management practice (BMP) for the industry, which has significantly decreased levels of copper, lead, and other heavy metals entering the waterway.





- Passage of an antipollution ordinance by the city of Ft. Lauderdale will help to control discharge of raw sewage from vessels into the waters of the city. The city is also making significant improvements to adjacent sewer systems.
- Expansion of Marine Industries Association of South Florida’s annual waterway cleanup to include additional sites along the North Fork of the New River to help remove litter and debris from the water.
- Continued assessment of contaminated sediments, which will eventually be removed.
- The end result of these efforts will be a New River system that is more ecologically functional, aesthetically pleasing, and a valued asset to the community.

Atlantic Intracoastal Waterway

The AICW is a navigable shipping route along the Atlantic coast in the southern and eastern United States. It utilizes sounds, bays, lagoons, rivers, and canals and is usable in many portions by deep-draft vessels. The route is maintained in Florida by the Florida Inland Navigation District and is connected to inland waterways in many places.

The AICW extends along the Biscayne Bay–Southeast Coast area and is influenced by the basins and canals in the area. The AICW in Broward County is a high-traffic shipping channel and is used for recreational boating. The AICW lies primarily within Biscayne Bay in Miami-Dade County as it runs down the west side of northern Biscayne Bay and extends down the middle of central and southern Biscayne Bay.

Coral Reefs

There are two main coral reef tracks within the Biscayne Bay–Southeast Coast Basin Group. The Southeastern Coast reef system runs from northern Monroe County to Palm Beach County in a series of discontinuous reef lines paralleling the shore. Duane and Meisburger (1969) and Goldberg (1973) defined the habitat at limited locations and provided information on the coral fauna. There are generally three lines of reef—one that nominally crests in 10 to 13 feet of water (First Reef), another in 20 to 26 feet (Second Reef), and a third in 49 to 69 feet (Third Reef).

The Florida Keys reef is also affected by the Biscayne Bay–Southeast Coast Basin Group. Arching southwest 356 kilometers (km) from south of Miami to the Dry Tortugas, the Florida Reef Tract comprises one of the largest reef communities in the world. Except between Rebecca Shoal and the Dry Tortugas, it is almost continuous. The Florida Reef Tract has been described as a bank reef system composed of an almost continuous reef community with elongated reef habitats paralleling one another. The reef ecosystems consist of distinct habitat types: nearshore patch reefs, mid-channel reefs, offshore patch reefs, seagrass beds, bank reefs/reef flats, bank or transitional reefs, intermediate reefs, deep reefs, outlier reefs, and sand/soft bottom areas. In addition to the bank reefs, over 6,000 circular to oval patch reefs lie along the Florida Reef Tract in 7 to 30 feet of

water. For further information, please see *Status of Coral Reefs in Florida* by Billy D. Causey, Richard E. Dodge, Walter Jaap, Ken Banks, Joanne Delaney, Brian D. Keller, and Richard Spieler.

There are several impacts on these reef tracts from the Southeast Coast watersheds. Some of these include discharge of treated wastewater from outfalls having adverse effects on reef growth. Urban runoff specifically containing coliform bacteria has been related to reef die-off. A Land-Based Sources of Pollution and Water Quality Focus Area Technical Advisory Committee exists as part of the Southeast Florida Coral Reef Initiative to more fully evaluate the impacts from the watershed.

Offshore Reef Water Quality Monitoring

The coastal marine waters off Southeast Florida support an extensive reef ecosystem, which anchors highly diverse biological communities. These reefs provide habitat for many ecologically and economically significant organisms, including numerous managed and protected (i.e., threatened or endangered) species. Hard corals, soft corals, sponges, fish, and algae along with a multitude of invertebrate species, make up the complex and fragile reef ecosystem. Multiple commercial and recreational fisheries (e.g., spiny lobster, grouper, snapper, grunts, and hogfish) exist in the nearshore waters.

Beyond their environmental significance, the offshore waters are a critical socioeconomic resource of the southeast coast. In 2001, the artificial and natural reef systems of Miami-Dade, Broward, and Palm Beach Counties contributed \$3.8 billion in sales to the local economy as well as almost 60,000 jobs (full and part-time, see <http://www.broward.org/bri01714.pdf>). Furthermore, it was estimated that residents and visitors spent almost 23 million “person days” on the reefs of Miami-Dade, Broward, and Palm Beach Counties.

All of the reef species and habitats have a great dependence on the quality and consistency of the nearshore water. These systems are considered to be under significant pressure from anthropogenic sources (i.e., modified levels of freshwater input, nutrient enrichment and increased turbidity/suspended solids from sewage outfalls, septic systems, and agricultural and upland runoff). Surprisingly, little information is available to document these stresses. Unlike the estuarine (i.e., ICW/intracoastal lagoon of Broward, Biscayne Bay in Miami-Dade, and Lake Worth Lagoon in Palm Beach) and inland waterbodies of the region (e.g., freshwater canal systems and the Everglades), relatively little surface water quality data exists for Florida’s offshore waters. This, however, is changing. For example, the Florida Department of Health (DOH) initiated a swimming-beach bacteriological monitoring program for all coastal counties in Florida (for data on Broward, see <http://apps3.doh.state.fl.us/env/Beach/beachresults.cfm?county=Broward>; for Miami-Dade, see <http://apps3.doh.state.fl.us/env/beach/beachresults.cfm?county=Dade>; and for Palm Beach, see <http://apps3.doh.state.fl.us/env/beach/beachresults.cfm?county=Palm+Beach>). These data are used for assessing potential sewage contamination at the beaches and to determine the need for issuance of closing advisories. Additionally, these data are used in the Impaired Waters Rule





(IWR) process by the Florida Department of Environmental Protection (Department). These locations represent the extreme nearshore environment as the samples are collected in the surf zone.

Miami-Dade County, through its Department of Environmental Resources Management (DERM), initiated a quarterly assessment of its coastal water quality in 1994. Water quality stations were matched to biological monitoring stations that were established for assessment of potential impacts associated with beach renourishment projects. Although multiple year sampling occurred at all stations, the location and period of sampling for the stations depended on the location of associated beach renourishment projects. Salinity, temperature, pH, dissolved oxygen (DO), turbidity, total phosphate, inorganic nitrogen (NO_x), total ammonia (NH₃-N-), and total coliform and fecal coliform bacteria have been sampled at limited locations, approximately 1 to 3 miles off the county's coastline. In general, nutrient and bacteriological concentrations in the coastal waters (based on the results of the monitoring) are extremely low, very close, or below the minimal detection limit (the lowest concentration of the compound that can be detected by the analytical method used by the laboratory) with the exception of ammonia. Ammonia is often detected but at concentrations well below the county's water quality standard (e.g., mean = 0.10 mg/L [+/- 0.10]; county standard is 0.50 mg/L). Minimal detection limits (and generally the maximal concentrations) of total phosphate and NO_x were 0.001 mg/L and 0.01 mg/L, respectively.

In Broward County, special historical water quality studies (SEFLOE I and II) were performed over 10 years ago with the installation of human wastewater outfalls, but surface water quality monitoring has not been conducted on a consistent basis. Recent newspaper articles (*Sun-Sentinel*, 2004) illustrate the public's perception of declining water quality offshore even though a paucity of data exists. The perception of poor water quality has been enhanced by the presence of multiple algal blooms over the past few years (i.e., *Codium isthmocladum* ["green" alga; Chlorophyta] and *Caulerpa verticillata* ["green" alga] during the mid and late 1990s and most recently *Lyngbya confervoides* ["blue-green" algae]; Cyanobacteria). These algae are all natural components of the reef ecosystem; however, the belief is that environmental conditions (possibly through nutrient inputs or other anthropogenic alterations) caused these otherwise "normal" algae to initiate and sustain an exceedingly abnormal growth or bloom. Qualitative surveys suggest the blooms have negatively impacted the reef's ecosystem by overgrowing sponges, hard corals, soft corals, and other sessile invertebrates. The exact cause remains unknown; however, the situation is made more complex by the diversity of possible nutrient inputs to the southeast coastal waters, including atmospheric deposition, oceanic upwelling, reef internal cycling, human wastewater outfall pipes, stormwater/oceanic inlets, and ground water seepage.

Freshwater and estuarine sampling has occurred in Palm Beach County since the mid 1970s, and this program was expanded by the DERM in the late 1980s. Nutrient enrichment of the county's interior coastal waters has long been documented, and these sources include discharges from the Central and Southern Flood Control Project canals

and urban storm sewers east of the coastal ridge. The flood control canals provide the backbone drainage system for a variety of land uses including vast amounts of agricultural lands. The nutrient-enriched coastal water then flows offshore through the Lake Worth, South Lake Worth (Boynton Beach), Boca Raton, and Jupiter Inlets. Algal blooms on the reefs have been documented in Palm Beach County as well. In the early 1990s research attempting to link the *Codium isthmocladum* blooms with total phosphate loadings from the canals were inconclusive. More recently, reports were completed describing local cyanobacterial (*Lyngbya* sp.) blooms and linking them with wastewater outfall discharge data (Tichenor, 2003), and LaPoint is initiating funded studies of the offshore macroalgal blooms.

Fortunately, several initiatives are underway to expand water quality monitoring off Broward, Miami-Dade, and Palm Beach's shores in the coming years. The Department is coordinating a Southeast Florida Coral Reef Initiative (SFCRI [<http://www.dep.state.fl.us/coastal/programs/coral/SFCRI-0204.pdf>]), which has a major objective to investigate land-based sources of pollution throughout the southeast coast. Many local utilities and the National Oceanic Atmospheric Administration are planning a monitoring program to investigate the diversity of nutrient loads to offshore waters. The Broward County Department of Planning and Environmental Protection is also constructing a monitoring program with implementation planned for 2005. The Southeast Coastal Observations Regional Association (<http://www.secoora.org/>) is being developed to provide an integrated physical and meteorological monitoring network that will be the backbone for future water quality observations. All of these efforts should substantially increase the knowledge of water quality along the Southeast Coast and should be available for the Department to use in its second iteration of the IWR Rotating Basin schedule (approximate time frame 2008 and 2009).

Surface Water Quality Classifications and Special Designations

Florida's water quality standards program designates the "present and future most beneficial uses" of the waterbodies of the state (Section 403.061[10], F.S.). Water quality criteria, expressed as numeric or narrative limits of pollutants, describe the water quality necessary to maintain these uses for surface water and ground water. Florida's surface water is classified using five designated use categories:

- Class I Potable water supplies
- Class II Shellfish propagation or harvesting
- Class III Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife
- Class IV Agricultural water supplies
- Class V Navigation, utility, and industrial use (there are no state waters currently in this class)





All waterbodies in the Group 4 Biscayne Bay–Southeast Coast area are designated Class III, which includes rivers, streams, canals, lakes, ponds, wetlands, estuaries, and impoundments that are not designated as treatment facilities. Although they may exist functionally, no Class IV waterbodies have specifically been designated as such in these basins. As elsewhere in Florida, there are no waterbodies designated as Class V in these basins.

OFWs receive special protection under state law due to their natural attributes (Chapter 403.061, F.S.). The intent of an OFW designation is to maintain ambient water quality, even if these designations are more protective than those required under the waterbody’s surface water classification. Most OFWs are associated with managed areas in the state or federal park system, such as aquatic preserves, national seashores, or wildlife refuges. Biscayne Bay is designated as an OFW (**Figure 2.1**).

Ground Water Resources

Aquifers

The surficial aquifer system is the primary source of fresh ground water in Broward and Miami-Dade Counties. This aquifer system is unconfined and is composed of permeable sands, sandstone, limestone, shell beds, and marl. The Biscayne aquifer and surrounding materials that produce water moderately well (sandy shell, moderately-solutioned limestone, and sandstone) make up the production zone of the surficial aquifer system in this area. The potential for water withdrawals across the area is dependent upon the thickness and composition of the aquifer material.

An extensive confining unit composed of lower permeability marl, limestone, and clay separates the surficial aquifer system from the underlying Floridan aquifer. The Floridan aquifer, existing in Oligocene- to Eocene-aged limestones and dolomites, is highly productive. However, without treatment its water is not potable due to salinity. Water can be withdrawn from two zones within the Floridan aquifer. The upper producing zone is of better quality and is being used for potable water supply after desalinization by reverse osmosis treatment. Although it can yield ample quantities of water, the lower Floridan is not utilized for water supply due to high dissolved solids that make treatment unfeasible.

Because the surficial aquifer system is so important in terms of its close relationship to the surface water system, the remaining ground water discussion pertains to it.

Recharge and Discharge: Ground Water and Surface Water Interactions

In Broward County the infiltration of the surficial aquifer system of surface water may vary throughout the county; however, there is substantial infiltration. Estimated values are generally about 300,000 square feet per day or more in the southeast, south central, and part of coastal northeast Broward County. Infiltration is lower to the north and west, decreasing to less than 75,000 square feet per day over a large area in northwest and

north-central Broward County. High infiltration is associated with the Biscayne aquifer. The gray limestone aquifer has an infiltration rate that range from about 20,000 to 88,000 square feet per day in west Broward County (Hydrogeology, Aquifer Characteristics, and Ground-Water Flow of the Surficial Aquifer System, Broward County, Florida, U.S. Geological Survey [USGS], 1981).

Ground water circulation in Broward County must be considered in either predevelopment or development conditions because of changes in hydrologic factors that control flow. Effective canal drainage and large-scale pumping from municipal well fields have greatly altered the predevelopment flow system in east Broward County by (1) eliminating a coastal ground water ridge; (2) reducing deep circulation and reducing or eliminating seasonal westward movement of ground water; and (3) causing accelerated stormwater runoff and short ground water flow paths, generally lowering the water table and inducing saltwater intrusion. In west Broward County, hydrologic and permeability framework evidence suggests that water entered the gray limestone aquifer by lateral movement from Hendry, Collier, and Palm Beach Counties, and by downward seepage from the Everglades and the Biscayne aquifer during predevelopment times, and moved southward into Miami-Dade County to coastal discharge areas. Depth profiles of specific conductance and chloride support the interpreted movement in west Broward County. Circulation in the Biscayne aquifer inland was also primarily to the south. Little change in the predevelopment ground water flow system has occurred in west Broward County compared to east Broward County (Hydrogeology, Aquifer Characteristics, and Ground-Water Flow of the Surficial Aquifer System, Broward County, Florida, USGS, 1981).

In Miami-Dade County infiltration of the surficial aquifer system may also vary locally but has substantial infiltration across the county. Estimated values generally are about 300,000 square feet per day or greater in nearly all of central and eastern Miami-Dade County. Infiltration is lower to the west, decreasing to less than 75,000 square feet per day in western Miami-Dade County. High infiltration usually is associated with thick sections of the Fort Thompson Formation within the Biscayne aquifer. The gray limestone aquifer of the Tamiami Formation has filtration rates that range from 5,800 to 39,000 square feet per day in western Miami-Dade County (Hydrogeology of the Surficial Aquifer System, Miami-Dade County, Florida, USGS, 1983).

More effective drainage as a result of extensive canal systems and large-scale pumping from municipal well fields has greatly altered the predevelopment flow system in eastern Miami-Dade County by (1) eliminating or greatly reducing a seasonal and coastal ground water ridge; (2) reducing deep circulation; (3) reducing or eliminating seasonal westward movement of ground water; (4) causing accelerated stormwater runoff and short ground water flow paths; and (5) generally lowering the water table and inducing saltwater intrusion. Under predevelopment conditions in western Miami-Dade County, water entered the gray limestone aquifer by lateral movement from Broward and Collier Counties, and by downward seepage from the Everglades and the Biscayne aquifer, and moved southward





and southeastward into Miami-Dade County to coastal discharge areas. Circulation in the Biscayne aquifer inland also was primarily to the south and southeast. In eastern Miami-Dade County, the seasonal ground water ridge that formed under predevelopment conditions supported both easterly and westerly ground water flow away from the ridge axis. This seasonal flow created a zone of lower dissolved solids (Hydrogeology of the Surficial Aquifer System, Miami-Dade County, Florida, USGS, 1983).

Ground Water Use

The Biscayne aquifer is the source of raw water for the Miami-Dade County Water and Sewer Department (WASD), and supplies water to the residents of Miami-Dade County. An average of 330 million gallons per day (mgd) is withdrawn from the aquifer through wells extending an average of 80 feet below the ground surface. Private wells also account for a portion of ground water use in Miami-Dade County. The uses of some of these wells include irrigation, fire suppression systems, monitoring wells, test wells, and even domestic supply (for single/duplex family residences) (<http://www.miamidade.gov/wasd/>).

The Biscayne aquifer is also the source of raw water for Broward County. The Broward County Office of Environmental Services supplies water for approximately 55,000 customers in Broward County and the rest are supplied by municipal water treatment plants. The withdrawal of ground water in all of Broward County in 1985 was 230 mgd (Water Withdrawals, Use and Trends in Florida, 1985).

Alternatives for supplementing water supplies in areas where the surficial aquifer system is being stressed are being implemented by the SFWMD and local utilities and water use restrictions are being imposed to limit withdrawals during low-water periods. The upper Floridan aquifer is being used as an alternative supply (after treatment). In addition, measures are being taken under the Comprehensive Everglades Restoration Plan (CERP) to create aboveground and deep aquifer storage of surface water that would otherwise be lost to tide and to reconnect and rehydrate natural wetland systems that would enhance recharge to the aquifer.

Historical, Current, and Proposed Watershed Management Activities and Processes

Organizations Responsible for Waterbody Restoration and Preservation

There is no one organization solely responsible for planning and implementing watershed and water quality improvements in this area. Much of the progress is attributable to coordinated efforts. Many plans hold common goals, and their implementation is based on several groups playing critical roles in planning, funding, managing, and executing projects. The local organizations and initiatives described in **Table 2.2** provide leadership roles in waterbody restoration and preservation in the Biscayne Bay–Southeast Coast region.

Table 2.2: Summary of Organizations Responsible for Waterbody Restoration

Organization	Role
Federal, State, or Regional Organizations	
South Florida Water Management District (SFWMD)	SFWMD is the sponsor for a wide variety of local and regional water quality planning, restoration, and monitoring efforts in the area. SFWMD is the lead agency responsible for water management in this area, for operating and maintaining the major network of canals, levees, dikes, and control structures within the area, and for regulating surface management by water control districts and local governments and ground water consumptive use by utilities. SFWMD is the lead regional agency for planning and implementing projects under the Comprehensive Everglades Restoration Program (CERP), and the lead agency for many conservation land acquisition efforts.
U.S. Army Corps of Engineers, Jacksonville District	This agency has the responsible lead federal role in CERP projects that affect this basin group.
U.S. Department of Agriculture Natural Resources Conservation Service (NRCS)	NRCS supports the agricultural community in conservation of soil and water, and reducing irrigation volumes and stormwater runoff from agricultural sites.
Florida Department of Agriculture and Consumer Services (DACCS)	The Office of Agricultural Water Policy of DACCS is responsible for working with agricultural interests to develop best management practices that reduce the impact of agricultural activities on water quality.
Florida Department of Environmental Protection (Department)	The Department has a leadership role and participates on several advisory boards and councils related to protection of the environmental resources in this area. The Department also actively monitors water quality in the area and also manages many state and federally funded contracts for restoration projects in these basins.
Local Governments and Organizations	
Miami-Dade County	Miami-Dade County Department of Environmental Resource Management (DERM) has a role in several programs that apply to water quality. DERM also is lead agency in the countywide stormwater management program, which includes several local municipalities as copermittees.
Broward County	The Broward County Department of Planning and Environmental Protection (DPEP) is responsible for surface water quality monitoring and evaluation, for management of stormwater in unincorporated areas of Broward County, and for oversight of some water control districts in the county. DPEP also is lead agency in the countywide stormwater management program, which includes several local municipalities as copermittees.
Local Municipalities	Several municipalities in Broward and Miami-Dade Counties are engaged in water quality restoration programs and projects, some of which are associated with their NPDES MS4 Permits.



The Comprehensive Everglades Restoration Program

More information about the CERP projects in this area can be found at the CERP Program Web site: <http://www.evergladesplan.org/>.

Major Programs and Projects

Everglades Construction Project

The Everglades Construction Project (ECP) forms the foundation for the largest ecosystem restoration program in the history of Florida, and possibly the nation. The ECP is composed of 12 interrelated construction projects located between Lake Okeechobee and the Everglades. The cornerstone of the ECP is 6 large constructed wetlands totaling over 47,000 acres. These stormwater treatment areas (STA) will use natural biological processes to reduce the levels of phosphorus that enter the Everglades to an interim goal of 50 parts per billion (ppb). The Everglades Nutrient Removal project, a prototype STA, has been operating since 1994 and effectively reducing phosphorus levels below 25 ppb. The primary objectives of the ECP projects are to improve the volume, timing, and distribution of water entering the Everglades.

Comprehensive Everglades Restoration Plan

The purpose of this nationally significant federal and state program is to restore and preserve South Florida's natural ecosystems, while enhancing water supplies and providing flood control. The lead agencies are the USACOE and SFWMD. Elements of this program should improve water quality, as well as improve timing and delivery of water to Biscayne Bay.

The C&SF project created the vast network of canals and levees, pumping stations, water control structures, and impoundments that control the hydrology of South Florida. The CERP was commissioned to review the effects of the C&SF and find alternatives to restore/protect some of the natural systems. Under Section 528 of the Federal Water Resources Development Act, projects included in CERP had to be designed to meet all federal, state, and local water quality criteria. High nutrient and suspended sediment loadings, as well as freshwater inflows into Biscayne Bay and the AICW from drainage and irrigation canals are primary water quality issues within this basin group that will be addressed by CERP. A summary of the CERP projects that would impact this area is provided in **Table 2.3**. See the sidebar for more information about CERP projects in this area.

The Biscayne Bay Coastal Wetlands Project is the CERP component with the greatest potential for improving water quality. Its primary purpose is to redistribute freshwater runoff from the watershed into Biscayne Bay, away from the canal discharges that exist today and provide a more natural overland flow through existing and or improved coastal wetlands. The goal of the project is to restore or enhance freshwater wetlands, tidal wetlands, and nearshore bay habitat. The objectives of the project are to

- Reestablish productive nursery habitat along the shoreline;
- Redistribute freshwater flow to minimize point source discharges to improve freshwater and estuarine habitat;
- Restore and improve quantity, quality, timing, and distribution of freshwater to the Bay, including Biscayne National Park;

Table 2.3: Summary of CERP Projects Influencing Biscayne Bay–Southeast Coast Water Quality

Project	Description	Waterbody Receiving Benefits
Biscayne Bay Coastal Wetlands	Project is designed to rehydrate wetlands and reduce point source discharge to Biscayne Bay.	Biscayne Bay
Central Lake Belt Storage Area	Project is to store excess water from Water Conservation Areas (WCA) 2 and 3 and provide environmental water supply deliveries to Northeast Shark River Slough, Water Conservation Area 3B, and to Biscayne Bay.	Everglades Protection Area and Biscayne Bay
Flow to Eastern WCA	Project will attenuate high stages in WCA-2 and -3 and transport excess water to Central Lake Belt Storage Area for storage and meet downstream demands in WCA 3B.	WCA 3B
Lake Belt In-Ground Reservoir Technology Pilot	Project will determine construction technologies, storage efficiencies, impacts on local hydrology, and water quality effects. Water quality assessments will include a determination as to whether the inground reservoirs and seepage barriers will allow for storage of untreated waters without concern for ground water contamination.	Ground water demands, potentially the C-9 and C-6 canals
North Lake Belt Storage Area	Project is designed to capture and store a portion of the stormwater runoff from the C-6, Western C-11, and C-9 Basins, used to maintain stages during the dry season in the C-9, C-6, C-7, C-4, and C-2 Canals and to provide water deliveries to Biscayne Bay to aid in meeting salinity targets.	Biscayne Bay
South Miami-Dade Reuse	The purpose of this feature is to provide additional water supply to the South Biscayne Bay and Coastal Wetlands Enhancement Project.	South Biscayne Bay and Coastal Wetlands Enhancement Project
Wastewater Reuse Technology Pilot	Project is to determine the ecological effects of using advanced treated reuse water to replace and augment freshwater flows to Biscayne Bay and to determine the level of advanced treatment required to prevent degradation of freshwater and estuarine wetlands and Biscayne Bay.	Wetlands surrounding the city of West Palm Beach’s wellfield, recharge a residential lake system surrounding the city’s wellfield and a Palm Beach County wellfield
WCA-3A and -3B Flows to Central Lake Belt	Project is to divert excess water above the target depths from WCA-3A and -3B to the Central Lake Belt Storage Area or Shark River Slough (on an interim basis) via C-500A and C-500B canals (improved L-37 and L-33 borrow canals, respectively). Excess water will be diverted via modified structures at S-9 and S-31.	Central Lake Belt Storage Area or Shark River Slough (on an interim basis)
West Miami-Dade Reuse	This feature includes a wastewater treatment plant expansion to produce superior, advanced treatment of wastewater from a future West Miami-Dade Wastewater Treatment Plant to be located in the Bird Drive Basin in Miami-Dade County.	Bird Drive Recharge Area, the South Dade Conveyance System, and the Northeast Shark River Slough
Acme Basin B Discharge	Project is to provide surface water to the Arthur R. Marshall Loxahatchee National Wildlife Refuge that would otherwise be routed through Basin A to C-51 and lost to tide.	Arthur R. Marshall Loxahatchee National Wildlife Refuge
Bird Drive Recharge Area	The project is to recharge ground water and reduce seepage from the Everglades National Park buffer area by increasing water table elevations east of Krome Avenue.	Ground water recharge demands, South Dade Conveyance System demands, and Northeast Shark River Slough demands

The Biscayne Bay SWIM Plan

http://www.sfwmd.gov/org/wrp/wrp_ce/projects/bb/

Biscayne Bay Partnership Initiative

<http://www.discoverbiscaynebay.org/documents/bbpi/Portland.pdf>

- Preserve and restore spatial extent of natural coastal glades habitat; and
- Reestablish connectivity between Biscayne Coastal Wetlands, C-111 Basin, Model Lands, and adjacent basins.

Biscayne Bay Surface Water Improvement and Management Plan

The Surface Water Improvement and Management (SWIM) Act (Chapter 373.451-373.459, F.S.), which was passed by the Florida legislature in 1987 and amended in 1991, mandated the preparation and implementation of a SWIM plan for Biscayne Bay. The SFWMD prepared and adopted the initial Biscayne Bay SWIM Plan in 1988 and modified the plan in 1989. The current (1995) plan incorporates portions of the original text and replaces the 1989 plan. In addition to addressing the issues identified in 1988, the updated plan also provides analysis of the extensive data collected since 1988 to document the effectiveness of the initial plan's strategies, new issues and problems facing Biscayne Bay and its watershed, and solutions that are consistent with the directives of the SWIM Act. These solutions may involve continuation of ongoing efforts, modification of existing activities, or creation of new projects. Goals, objectives, and strategies are provided in the document to guide the protection and restoration of the Biscayne Bay ecosystem. In some cases, rules may have to be adopted by the District, other agencies, or local governments to implement parts of restoration or protection strategies (Biscayne Bay SWIM Plan, 1995).

Biscayne Bay Partnership Initiative

At the request of Miami-Dade delegation members Senator Mario Diaz-Balart and Representatives Rodolfo Garcia and Carlos Lacasa, the 1999 Florida legislature created the Biscayne Bay Partnership Initiative (BBPI), a year-long scoping process designed to produce a report to the Florida legislature in January 2001. The Florida legislature and the SFWMD provided a total of \$550,000 to the Florida Atlantic University/Florida International University Joint Center for Environmental and Urban Problems and the Biscayne Bay Foundation to form a partnership and to coordinate the initiative. The report provides an assessment of the current status of science, social and economic, management, and regulation activities impacting Biscayne Bay.

While also aiming to enfranchise the public and build consensus, the BBPI produced the final report by fostering an effective and cooperative forum that incorporates federal, state, county, and local governments, as well as marine industries, tourism and business development interests, members of the conservation community, recreational organizations, and citizens of South Florida. The report contains recommendations for how the various public and private stakeholders who study, manage, regulate, and utilize the bay might best coordinate their efforts, and how the state might assist in authorizing and funding those efforts.

Biscayne Bay Regional Restoration Coordination Team

In January 2001, the BBPI issued a final report that recommended the establishment of a Biscayne Bay team as part of the Working Group of the South Florida Ecosystem Restoration Task Force. The report described the goal for the team as follows: To preserve, protect, and enhance Biscayne Bay and its connected waters so that the ecological and aesthetic values of Biscayne Bay may endure for the enjoyment of future generations. In addition, the report suggested that the team recognize the importance of watershed management for the protection of Biscayne Bay and outlined functions for the team as identified in the purpose that follows. The Biscayne Bay Regional Restoration Coordination Team purpose: Using the final report of the BBPI as a guide, the team will integrate and coordinate restoration, enhancement, and preservation projects, plans, and activities, and will work toward maintaining a functioning ecosystem while promoting a sustainable region. Specifically, the purpose of the team is to provide a forum for public involvement, outreach and interagency coordination, and communication; to identify priority issues for action and to create teams to address those issues as needed; to make recommendations on key issues to the Working Group; to identify goals and performance measures related to key issues and to assess the achievement of goals; to identify funding requirements; and to review elements of the CERP that affect Biscayne Bay. The team serves as the principal advisory body to the Working Group in the region.

South Miami-Dade Watershed Study and Plan

The South Miami-Dade Watershed Study and Plan is being undertaken to help meet the natural system requirements of a healthy Biscayne Bay and Miami-Dade County, while addressing essential quality of life characteristics, such as economic development, community character, and infrastructure needs. This 26-month study will culminate in a plan, a set of recommendations to the Miami-Dade Board of County Commissioners, and will guide land use planning in South Miami-Dade County for the next 50 years. The South Miami-Dade Watershed study area is a 400-square-mile area located in the southeastern portion of Miami-Dade County, between the Everglades and Biscayne National Parks. The northern boundary is formed by the Tamiami Trail. The western boundary begins at the western edge of the C-1 Basin where it intersects the Trail, and proceeds southward from the C-1 Basin in an irregular fashion along the Krome Avenue (SW 177th Avenue) corridor to the intersection of U.S. 1, and then follows U.S. 1 to land's end. The watershed is divided into a primary area, south of and including the C-2 Basin, and a secondary area consisting of the C-3 Basin.

The Watershed Study originates from the need to protect Biscayne Bay and Miami-Dade County from current water quality and quantity problems caused by past practices, and potential water impacts posed by future development. It is a comprehensive study that analyzes and projects surface and ground water uses and corresponding land uses. The Watershed Study has two land use planning horizons: a short-term component extending through the year 2015 and a long-term component extending through the

Biscayne Bay Regional Restoration Coordination Team

<http://www.sfrpc.com/ftp/pub/institute/Charter.biscayne.bay.regionalrestoration.pdf>



year 2050. The Watershed Study will take 26 months and will produce the water resources and land planning documents required by the Land Use Policy 3E of the Miami-Dade County Comprehensive Development Master Plan.

The South Miami-Dade Watershed Plan will synthesize complex issues related to land use planning, water resources, the natural system, economics, and property rights to satisfy the following objectives:

- Identify and protect lands, including their uses and functions, that are essential for preserving the environmental, economic, and community values of Biscayne National Park;
- Identify and establish mechanisms for protecting constitutional private property rights of landowners;
- Support a viable, balanced economy including agriculture, recreation, tourism, and urban development in the Plan area; and
- Assure compatible land uses and zoning decisions in the Study Area consistent with long-term objectives for a sustainable South Miami-Dade.

The following vision statement was created by the South Miami-Dade Watershed Plan Advisory Committee. The South Miami-Dade Watershed area is composed of vibrant communities with strong identities established on foundations that are economically, socially, and environmentally sustainable, which honor private property rights. It supports economically viable and diverse agriculture; ensures a healthy and sustainable south Biscayne Bay and Biscayne and Everglades National Parks; and promotes open space and tourism and recreational facilities based on its natural wonders while welcoming other compatible enterprises. Sustainable urban development preserves historic quality and rural character with a strong sense of local community and stewardship.

Miami River Commission

The Miami River Commission (MRC) was formed by the Florida legislature in 1998 as the official clearinghouse for all public policy and projects related to the Miami River. Its mission is to help ensure that government agencies, businesses, and residents speak with one voice on river issues. While efforts to improve the river gathered strength in the 1990s, the community needed an effective, recognized, and energetic coordinating body with active participation of elected officials with power to get things done. The study group proposed a MRC to address these priorities: dredging, creating greenways, improving water quality, enforcement, disposing of derelict vessels, and developing adjoining areas in a beneficial way. Answering the Study Commission's Call to Action, the Florida legislature formed the MRC as the official public clearinghouse for Miami River.

Broward County Surface Water Coordination Committee

The purpose of the Broward County Surface Water Coordination Committee (BCSWCC) shall be to encourage all water-control districts, municipalities, and regional water managers to participate in surface water resource management and to assist in surface water efficiency for Broward County. The principle objectives and purpose of the BCSWCC shall be to

- improve the awareness of surface water management through the education of the public and elected officials;
- improve coordination of all local and regional surface water management operations during regular and/or emergency situations;
- improve integration of surface water and ground water to enhance the quality and volume of recharge;
- assist in disseminating new surface water management ideas and technology; and
- act as an advisory group to the Technical Advisory Committee of the Water Advisory Board of the Broward County Board of County Commissioners.

U.S. Coral Reef Task Force

The U.S. Coral Reef Task Force (CRTF) was established in June 1998 through Executive Order #13089 on Coral Reef Protection to lead the U.S. response to this growing, global environmental crisis. The CRTF is responsible for overseeing implementation of the Executive Order, and developing and implementing coordinated efforts to

- map and monitor U.S. coral reefs;
- research the causes and solutions to coral reef degradation;
- reduce and mitigate coral reef degradation from pollution, over-fishing, and other causes; and
- implement strategies to promote conservation and sustainable use of coral reefs internationally.

The CRTF has a Local Action Strategy (LAS) Team dealing with the reef track off the Biscayne Bay–Southeast Coast area. The subteams of the LAS Team are the following:

- Land-Based Sources of Pollution/Water Quality
- Recreational Use and Fishing
- Physical Impacts from Maritime Industry and Coastal Construction
- Awareness and Appreciation





Agricultural Best Management Practices

The Florida Watershed Restoration Act authorizes the Department and the Florida Department of Agriculture and Consumer Services (DACS) to develop interim measures and agricultural BMP to address nonpoint sources. Over the last several years, DACS has worked with agriculturists, soil and water conservation entities, the University of Florida’s Institute of Food and Agricultural Sciences, and other major interests to improve product marketability and operational efficiency by implementing agricultural BMPs, while at the same time promoting water quality and water conservation objectives. In addition, programs have been established and are being developed to create a network of state, local, federal, and private sources of funds for developing and implementing BMPs.

Several industry-specific BMP manuals have been published and others are being developed that will be applicable to agricultural practices in the Biscayne Bay–Southeast Coast area.

South Florida Water Quality Protection Program

The South Florida Water Quality Protection Program (SFWQPP), funded by the U.S. Environmental Protection Agency, was established in the spring of 1999 as an effort to integrate water quality protection efforts, document existing water quality protection strategies, summarize existing water quality information, determine major pollutant sources, and document actions currently underway to address these sources. Due to the successful regulation efforts to mediate impacts from point pollution sources, nonpoint source pollution has become the single largest threat to South Florida waters. Nonpoint sources can be broadly subdivided into stormwater runoff from agricultural activities and stormwater runoff from urban development. Since BMPs would address stormwater runoff from agriculture under the purview of DACS, the focus of the SFWQPP has been toward addressing nonpoint source pollution arising from urbanization. The SFWQPP has created a database documenting water quality resource management programs and water quality projects in South Florida. The SFWQPP has documented water quality efforts in the Biscayne Bay–Southeast Coast area.

Chapter 3: Preliminary Surface Water Quality Assessment

Scope of the Preliminary Assessment

This chapter contains the results of a preliminary assessment of surface water quality in the Biscayne Bay–Southeast Coast Basins. It contains background information on sources of data, designated use attainment, and the integrated water quality assessment reporting framework. It also describes the planning units in the basin used as a basis for the assessment.

This chapter includes by-planning-unit summaries that include descriptions of each planning unit and its water quality. These discussions also note where applicable surface water quality criteria have been exceeded, showing potentially impaired waterbody segments on maps. Permitted discharges, land uses, and ecological status are summarized for each planning unit along with planning and management activities that address water quality problems.

For each planning unit, potentially impaired waterbodies and their causative pollutants are identified. However, it is not within the scope of this preliminary report to identify the specific sources of potential impairments. Information on the sources of impairment will be provided in subsequent phases of the watershed management cycle, including Total Maximum Daily Load (TMDL) development and implementation.

Sources of Data

The assessment of water quality in this basin group includes an analysis of quantitative data from a variety of sources, some of which are readily available to the public. These sources include the South Florida Water Management District (SFWMD) DBHydro water quality database, the U.S. Environmental Protection Agency’s (EPA) Legacy and “new” **STO**rage and **RE**trieval (STORET) databases, the U.S. Geological Survey (USGS), and the Florida Department of Health (DOH). The STORET databases contain water quality data from several sources including the Florida Department of Environmental Protection (Department), Miami-Dade County Department of Environmental Resource Management (DERM), Lake Worth Drainage District, Broward County, Florida Fish and Wildlife Conservation Commission (FWC), Loxahatchee River Environmental Control District, U.S. Army Corps of Engineers (USACOE), and Lake-Watch volunteer monitoring group. A detailed description of the dataset



Preliminary Water Quality Assessment

The primary purpose of the preliminary assessment of water quality is to determine if waterbodies or waterbody segments are potentially impaired. Waterbodies or segments that exceed evaluation thresholds and meet data sufficiency and data quality requirements in the Identification of Impaired Surface Waters Rule (Chapter 62-303, F.A.C.) will be listed on the Planning List of potentially impaired waterbodies.

used in this evaluation and methodology used to develop the Planning and Verified Lists are available in **Appendix B**.

Table 3.1 is a summary of the main data providers who contributed to the Impaired Surface Water Rule (IWR) 2002 database for the period of record used in this assessment. **Figure 3.1** is a pie chart illustrating the amount of data provided by each source.

Table 3.1: Summary of Data Providers in the Biscayne Bay-Southeast Coast Basin Group

Organization	Number of Data Records in Database by Year											
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
U.S. Geological Survey	1,031	603	325	2,599	2,288	357	394	334	347	194		8,472
U.S. Army Corps of Engineers	333											333
National Park Service, Water Resource Division	1,693	360										2,053
Broward County Department of Natural Resource Protection	3,278	3,763	4,210	4,969	4,425	5,071	2,698	2,163	2,083	2,017	2,036	36,713
Miami-Dade County Environmental Resource Management	5,857	2,768	4,842	24,790	29,679	31,587	33,875	33,350	34,045	35,016	18,478	254,287
Florida Department of Health								569	1,389	2,515	4,182	8,655
Florida Fish and Wildlife Conservation Commission/ Marine Research Institute								89	29	48		166
Florida Game and Freshwater Fish Commission	390	135										525
Florida Department of Environmental Protection						189	929	944	966	855	360	4,243
Florida LakeWatch					12		12	312	630	347		1,313
Florida Department of Environmental Protection Southeast District									724	2,668	300	3,692
South Florida Water Management District	22,627	43,267	60,076	44,818	23,682	34,680	26,829	29,595	14,679	2,093	560	302,906

Data Providers from 1993–2003

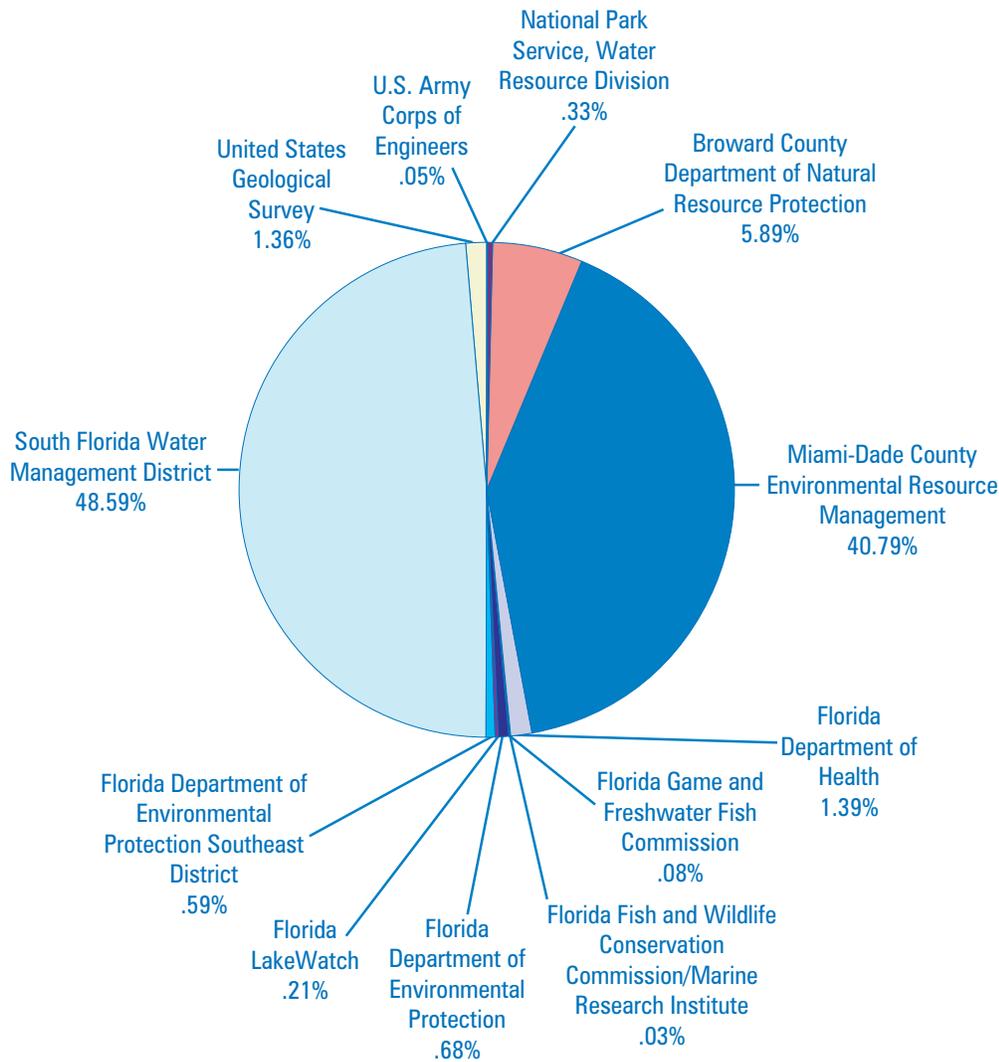


Figure 3.1: Sources of Data for the Biscayne Bay–Southeast Coast Basins

The evaluation of data is done in accordance with the methodology prescribed in Identification of Impaired Surface Waterbodies (Chapter 62-303, Florida Administrative Code [F.A.C]). For the Verified List assessment, the period of record is 7 years, and the Planning List period of record is 10 years. **Table B.2** in Appendix B shows the periods of record for the Groups 1 through 5 Verified and Planning Lists in the first basin rotation cycle. Data collected for the Biscayne Bay–Southeast Coast Basin Group between January 1, 1993, and December 31, 2002, was evaluated to establish the Planning List based on the water quality assessment in the IWR Run 17.0.

The evaluation of water quality in this basin group also includes qualitative information and considers data in technical reports and documents that are not yet included in the database. Some of these sources include historical water quality or ecological information that was not uploaded to the database due to its qualitative treatment of issues.



Understanding the Terms “Pollutant” and “Pollution”

For purposes of the TMDL Program, pollutants are chemical and biological constituents, introduced by humans into a waterbody that may result in pollution (water quality impairment). There are other causes of pollution, such as physical alteration of a waterbody (for example, canals, dams, and ditches). However, TMDLs are established only for impairments caused by pollutants (a TMDL quantifies how much of a given pollutant a waterbody can receive and still meet its designated uses).

Waterbodies that are verified impaired due to specified pollutants, and therefore require a TMDL, are listed under Category 5 in the Integrated Assessment Report; waterbodies with water quality impairments due to other causes, or unknown causes, are listed under Category 4b. Although TMDLs are not established for Category 4b waterbodies, these waterbodies still may be addressed through a watershed management program (for example, the Kissimmee River restoration).

Attainment of Designated Use

According to Chapter 62-303, F.A.C., impaired waterbodies are defined as those that do not meet their designated uses. The designated use(s) of a particular waterbody is assigned based on the actual function(s) of that waterbody. Following EPA guidance, the water quality evaluations and impaired waterbodies listing decision processes defined in Florida’s IWR are based on the following designated use attainment categories:

- Aquatic Life Use Support-Based Attainment**
- Primary Contact and Recreation Attainment**
- Fish and Shellfish Consumption Attainment**
- Drinking Water Use Attainment**
- Protection of Human Health**

The designated uses assigned to the various surface water classes are summarized in Table 3.2.

Table 3.2: Designated Use Attainment Categories for Surface Waters in Florida

Designated Use Attainment Category Used in Impaired Surface Waters Rule Evaluation	Applicable Florida Surface Water Classification
Aquatic Life Use Support-Based Attainment	Class I, II, and III
Primary Contact and Recreation Attainment	Class I, II, and III
Fish and Shellfish Consumption Attainment	Class II
Drinking Water Use Attainment	Class I
Protection of Human Health	Class I, II, and III

Integrated Report and Assessment Overview

The *Integrated Water Quality Monitoring and Assessment Report* document provided by EPA (Wayland, 2001) includes guidance for merging the states’ reporting requirements under the Clean Water Act for Section 305(b) surface water quality reports and Section 303(d) lists of impaired waters. Following the Status Report and further data evaluation, the Department will produce an Assessment Report integrating 303(d) lists and the basin-specific 305(b) report for this area.

Generally, following the EPA’s guidance, the Department has delineated waterbodies or waterbody segments in each of the state’s drainage basins. These waterbodies or segments have been grouped into five major assessment categories and subcategories. These categories are used to designate waterbody status with respect to water quality, sufficiency of data, and TMDL development (Table 3.3).

This Status Report contains a preliminary evaluation of waterbodies that fall into Integrated Report Categories 1 through 3 in the table. Out of 95 waterbodies/waterbody segments in the Biscayne Bay–Southeast Coast Basin Group, none fall into Category 1 (attaining all uses), 79 fall into

Table 3.3: Categories for Waterbodies or Waterbody Segments in the 2002 Integrated Report

Category	Description	Comments
1	Attaining all designated uses	If use attainment is verified for a waterbody or segment that was previously listed as impaired, the Department will propose that it be delisted.
2	Attaining some designated uses and insufficient or no information or data are present to determine if remaining uses are attained	If attainment is verified for some designated uses of a waterbody or segment, the Department will propose partial delisting for the uses attained. Future monitoring will be recommended to determine if remaining uses are attained.
3a	No data and information are present to determine if any designated use is attained	Future monitoring will be recommended to determine if designated uses are attained.
3b	Some data and information are present but not enough to determine if any designated use is attained	Future monitoring will be recommended to gather sufficient information and data to determine if designated uses are attained.
3c	Enough data and information are present to determine that one or more designated uses may not be attained according to the Planning List methodology	This indicates a waterbody or segment is potentially impaired for one or more designated uses. These waters will be prioritized for future monitoring to verify use attainment or impaired status.
3d	Enough data and information are present to determine that one or more designated uses are not attained according to the Verified List methodology	This indicates that a waterbody or segment exceeds Verified List evaluation criteria and may be listed as impaired at the end of Phase 2 of the watershed management cycle. However, the data have not yet been fully evaluated and the waters have not been formally verified as impaired. Further monitoring and analysis may be necessary.
4a	Impaired for one or more designated uses but does not require TMDL development because a TMDL has already been completed	After a TMDL for the impaired waterbody or segment is approved by EPA, it will be included in a Basin Management Action Plan to reduce pollutant loading toward attainment of designated use(s).
4b	Impaired for one or more designated uses but does not require TMDL development because the water will attain water quality standards due to existing or proposed measures	Pollutant control mechanisms designed to attain applicable water quality standards within a reasonable time frame are either proposed or in place.
4c	Impaired for one or more designated uses but does not require TMDL development because impairment is not caused by a pollutant	This category includes waterbodies or segments that are impaired because of naturally occurring conditions or other causes of pollution. The impairment is not caused by specific pollutants. (See sidebar on previous page for a discussion of the difference between the terms “pollutant” and “pollution.”)
5	One or more designated uses are not attained and a TMDL is required	Waterbodies or segments in this category are impaired for one or more designated uses by a pollutant or pollutants. Waters in this category are included on the basin-specific Verified List adopted by the Department’s Secretary as Florida’s impaired waters list and submitted to the EPA as Florida’s 303(d) list of impaired waters at the end of Phase 2.

Note: The descriptions in **Table 3.3** are consistent with the EPA’s integrated assessment categories. In the Status Reports for Groups 1 through 3 and in the Assessment Reports for Groups 1 through 2 that were previously produced, Categories 4b and 4c were reversed. That is, the description of Category 4b was previously listed as Category 4c, and the description of Category 4c was listed as Category 4b.



Category 2 (attaining some uses but with insufficient data to completely assess), 98 fall into Category 3 (having insufficient data), and 59 fall into Category 3d (enough data to assess impairment according to Verified List methodology). At this time, no waterbodies are designated as being within Category 4 (impaired but do not require a TMDL) or Category 5 (impaired and requiring TMDL). These designations will be identified at the end of Phase 2 when the Verified List of impaired waterbodies is developed.

Because not enough recent data on chemistry, biology, and fish consumption advisories have been collected, currently there are no waterbodies or waterbody segments that fall into Category 1 in these basins.

More waterbodies and segments fall into Category 2 than Category 1 because monitoring programs can sometimes provide sufficient data for partially determining whether a designated use in a particular waterbody is obtained. For example, in this basin group, sufficient data were available to assess water quality status at numerous beach sites for bacteria, but not for other parameters.

Many waterbodies in the state fall into Category 3. In the Biscayne Bay–Southeast Coast area, the breakdown of waterbodies/segments in Category 3 is as follows:

- 3 for which no data are available to determine their water quality status (i.e., Category 3a);
- 52 with some data, but not sufficient data for making any determinations (i.e., Category 3b);
- 33 that are potentially impaired based on the Planning List criteria (i.e., Category 3c); and
- 59 that may be impaired based on the Verified List criteria but require further evaluation (i.e., Category 3d).

Several Category 3d waterbodies fail to meet water quality standards for dissolved oxygen (DO). According to the IWR, specific pollutants causing DO exceedances must be documented for a waterbody or segment to be listed as impaired. Sometimes these conditions cannot be linked to a causative pollutant, and sometimes they may reflect natural background conditions.

Category 4 includes those waterbodies/segments that are impaired but do not require a TMDL for one of three reasons: (1) a TMDL has already been developed (Category 4a); (2) their impairment is not attributable to a pollutant or pollutants but is due to other alterations to the waterbody (Category 4b); or (3) there is reasonable assurance that the designated use of an impaired waterbody will be restored by a pollutant control measure (Category 4c). There are presently no Category 4 waterbodies that have been proposed for the Biscayne Bay–Southeast Coast Basin Group. These would be proposed in Phase 2 when the Verified List is developed.

Category 5 waterbodies have been determined to be impaired and requiring TMDLs. There are presently no Category 5 waterbodies that have been proposed for the Biscayne Bay–Southeast Coast Basin Group.

These will be included on the Verified List of impaired waterbodies adopted by the Department's Secretary.

Planning Units

The Biscayne Bay–Southeast Coast area encompasses approximately 1,192.70 square miles. To provide a smaller scale geographic basis for evaluating water quality and water quality improvement projects, the Group 4 area was divided into smaller areas called planning units. Planning units help organize information and management strategies around prominent geopolitical areas, subbasin characteristics, and drainage features.

There are four planning units within this basin group: Broward, North Dade, South Dade, and Intracoastal. The Broward planning unit includes SFWMD drainage basins within most of eastern, central, and southern Broward County. The North Dade planning unit includes the primarily urban drainage basins within northeast and east-central Miami-Dade County. South Dade includes the predominantly agricultural area of southern Miami-Dade County that extends east of the Everglades. The Intracoastal planning unit includes Biscayne Bay, the Intracoastal Waterways of northern Miami-Dade County and Broward County, as well as the nearshore coastal waters of the Atlantic Ocean adjacent to these areas.

Figure 3.2 shows these planning units.

Water quality assessments were conducted for waterbody segments within planning units. Each waterbody segment is assigned a unique waterbody identification (WBID) number. Waterbody segments are assessment units that the Department uses to define waterbodies in our biannual inventory and reporting of water quality to EPA under Section 305(b) of the federal Clean Water Act. These WBIDs are also the assessment units identified in the Department's biannual list of impaired waterbodies submitted to EPA as part of our reporting under Section 303(d) of the Clean Water Act. Assessment units defined by WBIDs are geographic areas (geographic information systems [GIS] polygons) that include a main waterbody, but they may also contain tributaries to that waterbody. Water quality data reported for WBIDs usually reflect conditions within the main waterbody within a given polygon; however, in some instances the data from several waterbodies within the polygon have been aggregated. As the water quality assessments are refined in Phase 2 of the basin rotation approach, individual waterbodies within these aggregations that have unique water quality concerns will be assigned unique WBIDs and evaluated individually.

The remainder of this chapter includes by-planning-unit discussions with detailed descriptions of the planning units, information on land use and potential point sources of pollution, water quality assessments for the individual waterbody segments, and summaries of the ecological issues and watershed management activities within each planning unit.

To determine the status of surface water quality in the waterbody segments of this basin group, chemistry data, biological data, and (if available) fish consumption, beach closure, and shellfish-harvesting advisories were



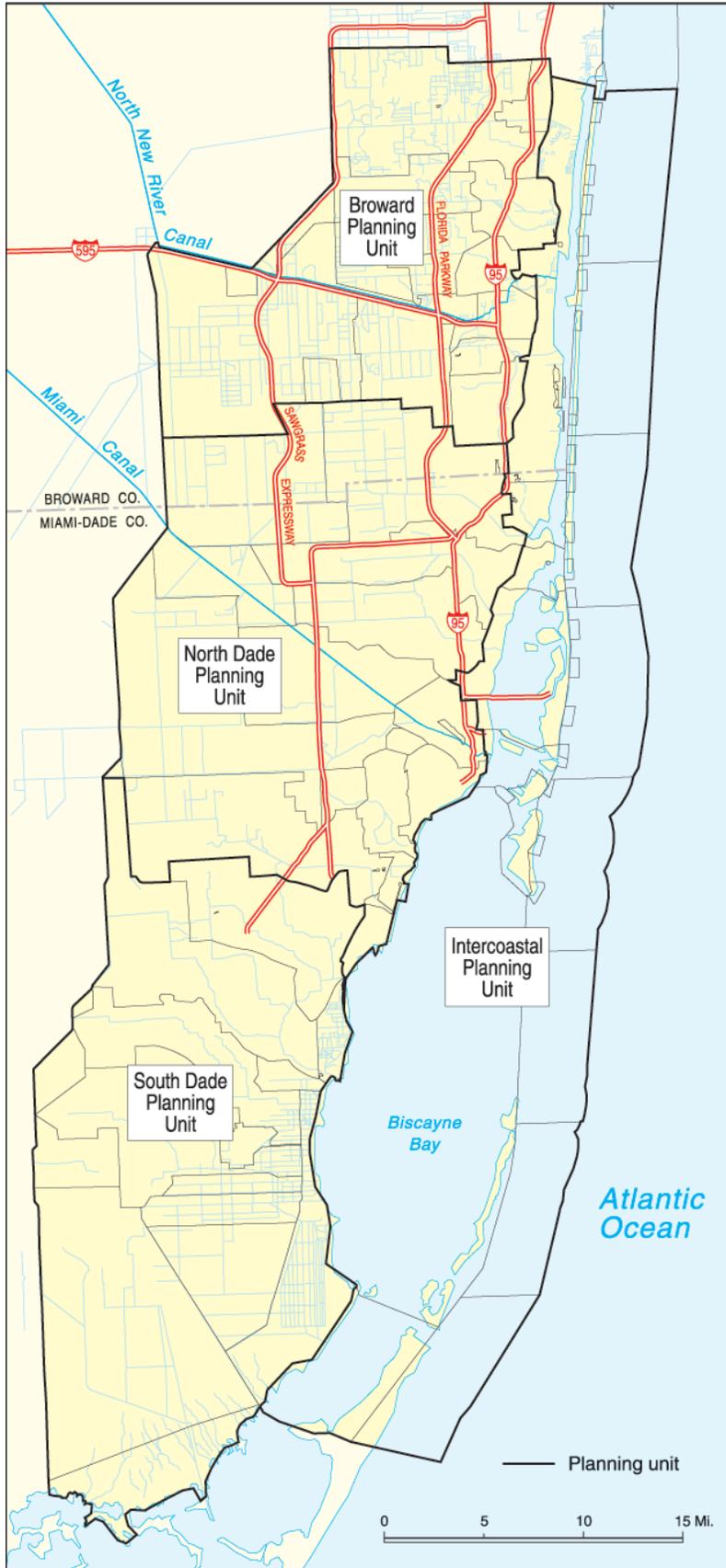


Figure 3.2: Locations and Boundaries of Planning Units in the Biscayne Bay–Southeast Coast Basin Group

evaluated to determine potential impairments. A detailed description of the methodology used to develop the Planning and Verified Lists is available in **Appendix B**.

Appendix C of this report contains definitions and specific methods for the generation and analysis of bioassessment data. **Appendix D** includes summary information, by planning unit, for permitted wastewater treatment facilities, Superfund sites, and permitted landfill facilities in the basins. **Appendix E**, which provides a water quality summary, by planning unit, contains a list of water quality monitoring stations and the integrated assessment summary. **Appendix F** summarizes land use by planning unit. **Appendix G** summarizes the potentially impaired waterbody segments by parameter in the basin.

- **Broward Planning Unit**

General Description

This planning unit includes most of the SFWMD canal basins within Broward County and encompasses approximately 270 square miles. It is bounded to the north by the Hillsboro Canal Basin (which lies within the Group 3, Lake Worth Lagoon–Palm Beach Coast area); to the west by the Everglades Water Conservation Areas (WCA) 2A, 2B, 3, and 3B; to the south by the C-9/Snake Creek Canal Basin, which is included in the planning unit to the south; and to the east by the Atlantic Intracoastal Waterway (AICW) and subbasins that drain directly to the AICW. Canal basins within this planning unit include (from north to south) those of the C-14/Cypress Creek Canal, Pompano Canal, C-13/Middle River Canal, C-12/Plantation Canal, North New River Canal, C-11/South New River Canal, and C-10/Hollywood Canal. **Figure 3.3** is a composite map of this planning unit that shows potentially impaired waterbodies. Major canals provide flood protection and drainage for their basins, convey excess water in water conservation areas to tide, as well as maintain ground water elevations to prevent saltwater intrusion. Several of these canals are capable of discharging to both the AICW and WCAs depending on need, and water within the western subbasin of the C-11/South New River Canal is typically backpumped into the WCAs (Cooper and Lane, 1987b, Broward County Department of Planning and Environmental Protection [BCDPEP], 2001).

There are approximately 17 water control districts that have water management responsibilities within this planning unit. Some of the larger ones include the Central Broward Drainage District, South Broward Drainage District, Old Plantation Water Control District, and Indian Trace Community Development District. Water control districts within this area are shown in **Figure 3.3**.

There are many incorporated areas within this planning unit. The larger ones by area include Plantation, Sunrise, Coral Springs, Hollywood, and Davie, as well a portion of Ft. Lauderdale.

Water Quality Summary

For many years Broward County has maintained a sampling network to monitor water quality trends in significant canals and the AICW



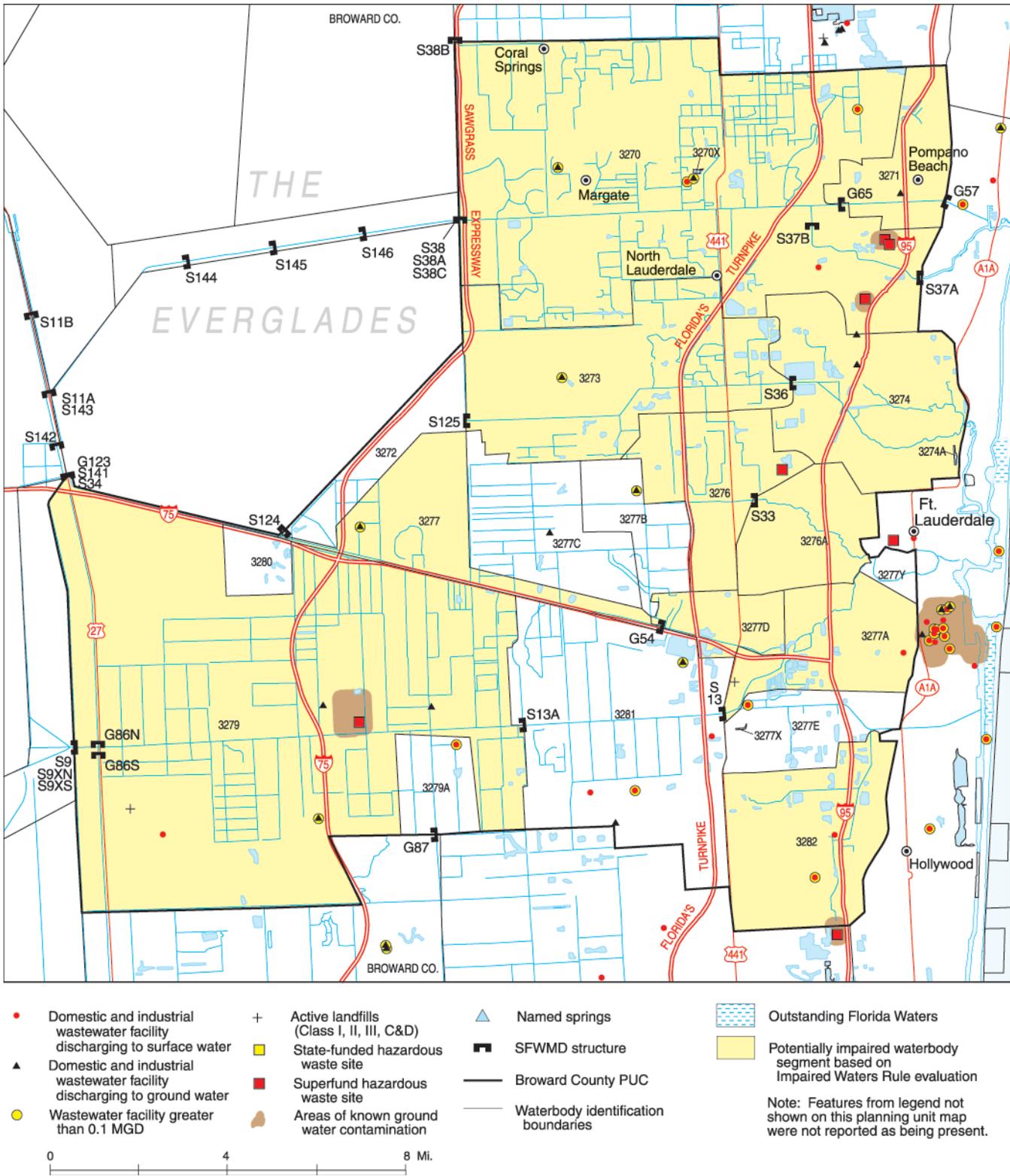


Figure 3.3: Composite Map of the Broward Planning Unit

(BCDPEP, 2001a). Broward County monitoring data were relied upon heavily in this IWR evaluation of water quality. There are 22 waterbodies and waterbody segments in this planning unit that were evaluated. **Table 3.4** includes a summary of the water quality assessment status of all waterbody segments within the planning unit. Waterbodies represented by these data include the main SFWMD canals, segments thereof, as well as several tributary canals and lakes that have been monitored. Segments of canals below salinity control structures were evaluated separately using estuarine water quality criteria.

The table and figure show the potentially impaired waterbodies or segments within this planning unit. Based on Planning List criteria, 12 of the waterbodies or segments have been identified as potentially impaired and 10 had insufficient data to be evaluated. DO, identified for 10 WBIDs, was the most prevalent potential impairment but causative pollutants need to be identified in order to verify impairment of waterbodies based on DO. Other exceedances of the IWR criteria included nutrients (chlorophyll *a* or chlorophyll *a* trends), total and fecal coliforms, lead, and copper. Several of the waterbody segments exceeded Verified List screening criteria for some parameters, although verified listing does not occur until the end of Phase 2 in the basin rotation cycle.

According to the IWR evaluation, the estuarine segment of the North Fork of the New River (WBID 3276A) was potentially impaired for the most parameters (DO, fecal and total coliforms, mercury, and nutrients [as determined by chlorophyll *a* concentration and chlorophyll *a* trends]). Of the potentially impaired waters, 10 had previously been included on EPA's 1998 303(d) list of impaired waters.

Several of the waterbody segments had insufficient data to be evaluated. Some of these are lakes or canals that are infrequently sampled by the local monitoring program, while others are in portions of canal basins that do not have sampling sites.

Permitted Discharges and Land Uses

Point Sources. In this planning unit, Department records indicate that there are 27 permitted wastewater treatment facilities, 12 of which have federal National Pollution Discharge and Elimination System (NPDES) permits for discharge to surface water. Four of the NPDES facilities are domestic wastewater treatment plants, the most significant being the Broward County North Regional Wastewater Treatment Plant (design capacity 80 million gallons per day [mgd]). NPDES facilities also include 3 industrial wastewater facilities (2 of which discharge cooling water or reverse osmosis plant brine). There are 9 permitted landfills in the planning unit (2 of which are active Class I or II solid waste facilities), 7 Brownfields redevelopment areas, and 5 federal Superfund sites. In addition, there are 6 delineated areas of ground water contamination. See **Noteworthy** for discussions on these inventories conducted by the Department.

Nonpoint Sources. Nonpoint sources within this planning unit that may contribute to impairment of waterbodies are associated with land use. Based on Level I and II land use summary information, urban land uses



Information on Broward County Programs

Office of Environmental Services Neighborhood Improvement Program,
<http://www.broward.org/oes/oei03800.htm>

Surface Water Management Program,
<http://www.broward.org/wti00800.htm>

Non-Domestic Wastewater, NPDES Program,
<http://www.broward.org/wti00600.htm>

Table 3.4: Integrated Water Quality Assessment Summary for the Broward Planning Unit

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
Broward County	3270	C-14/Cypress Creek Canal (Pompano Canal)	Stream	IIIF	DO, Fecal Coliforms	DO	Arsenic, Chlorophyll <i>a</i> , Conductance, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, Unionized Ammonia, pH
Broward County	3271	Pompano Canal	Stream	IIIF	Nutrients	DO, Historical Chlorophyll, Nutrients	Chlorophyll <i>a</i> , Conductance, Fecal Coliforms, Total Coliforms, Turbidity, Unionized Ammonia, pH
Broward County	3273	C-13 West/Middle River	Stream	IIIF	DO, Fecal Coliforms, Nutrients	DO, Nutrients	Arsenic, Chlorophyll <i>a</i> , Conductance, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, Unionized Ammonia, pH
Broward County	3274	C-13 East/Middle River	Estuary	IIIF	N/A	Chlorophyll <i>a</i>, Conductance, DO, Fecal Coliforms	Historical Chlorophyll, Total Coliforms, Turbidity, Unionized Ammonia, pH
Broward County	3274A	Lake Melva	Lake	IIIF	N/A	N/A	N/A
Broward County	3275	L-35a Borrow	Stream	IIIF	N/A	N/A	N/A
Broward County	3276	C-12	Stream	IIIF	DO, Fecal Coliforms	DO	Chlorophyll <i>a</i> , Conductance, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, Unionized Ammonia, pH
Broward County	3276A	North Fork New River	Estuary	IIIM	N/A	Chlorophyll <i>a</i>, DO, Fecal Coliforms, Mercury in Fish, Historical Chlorophyll, Total Coliforms	Arsenic, Cadmium, Selenium, Turbidity, pH
Broward County	3277	North New River Canal	Stream	IIIF	DO, Fecal Coliforms, Nutrients	DO, Nutrients	Alkalinity, Arsenic, Chlorophyll <i>a</i> , Conductance, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, Unionized Ammonia
Broward County	3277A	South New River Canal	Estuary	IIIM	DO, Fecal Coliforms, Nutrients	Nutrients	Chlorophyll <i>a</i> , DO, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, pH
Broward County	3277B	E. Holloway Canal	Stream	IIIF	BOD, DO, Fecal Coliforms, Nutrients, TSS	BOD 5 Day, DO, Fecal Coliforms, Nutrients, TSS	N/A

Table 3.4 (continued)

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
Broward County	3277C	C-42/West Holloway Canal	Stream	IIIF	N/A	N/A	N/A
Broward County	3277D	North New River Canal East	Estuary	IIIF	N/A	N/A	N/A
Broward County	3277E	Dania Cutoff Canal	Stream	IIIF	N/A	N/A	N/A
Broward County	3277Y	Tarpon River	Estuary	IIIM	N/A	N/A	N/A
Broward County	3279	South New River Canal	Stream	IIIF	DO, Fecal Coliforms, Nutrients	DO , Nutrients	Alkalinity, Chlorophyll <i>a</i> , Conductance, Copper, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, Unionized Ammonia, pH
Broward County	3279A	NF Snake Creek Canal	Stream	IIIF	N/A	N/A	N/A
Broward County	3280	North New River Canal West	Stream	IIIF	N/A	N/A	N/A
Broward County	3281	C-11 East	Stream	IIIF	DO, Fecal Coliforms, Nutrients	DO , Nutrients	Chlorophyll <i>a</i> , Conductance, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, Unionized Ammonia, pH
Broward County	3282	Hollywood Canal	Estuary	IIIM	Nutrients	Chlorophyll <i>a</i>, Historical Chlorophyll , Nutrients	DO, Fecal Coliforms, Total Coliforms, Turbidity, pH
Broward County	3270X	Margate Lakes	Lake	IIIF	N/A	N/A	N/A
Broward County	3277X	Playland Isles Lakes	Lake	IIIF	N/A	N/A	N/A

Notes:

¹The designation “stream” includes canals, rivers, and sloughs. The designation “lake” includes some marshes.

²The state’s surface water classifications are as follows:

Class I: Potable water supplies

Class II: Shellfish propagation or harvesting

Class III: Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife

Class IV: Agricultural water supplies

Class V: Navigation, utility, and industrial use (there are no state waterbodies currently in this class)

³Parameters in **bold** exceed Verified List screening criteria

⁴Status based on Planning List screening criteria

F = Fresh water

M = Marine

BOD = Biological oxygen demand

DO = Dissolved oxygen

TSS = Total suspended solids



dominate this area, constituting approximately 69 percent of the total area (see **Noteworthy** for a discussion on nonpoint sources). These include low-, medium-, and high-density residential development (27.5 percent), commercial (17.5 percent), and industrial (4 percent) uses. Transportation and utilities also constitute a significant portion of the total land use (7.5 percent). Only about 8.5 percent the total land area is delineated as agriculture, most of that being in pasture (5.6 percent). Natural areas (upland forest, wetlands, and water) constitute only about 9 percent of the land cover.

- **North Dade Planning Unit**

General Description

This approximately 400-square-mile planning unit includes the populated, predominantly urban drainage basins of northeast and east-central Miami-Dade County and southern Broward County. These basins all drain via canal networks to Biscayne Bay. Major canals in this planning unit provide flood protection and drainage, supply water to the area under low natural flows, maintain ground water levels, and prevent saltwater intrusion (Cooper and Lane, 1987a). Some of these canals also may transport excess water from the WCAs to Biscayne Bay. Major canals within this planning unit include the west and east segments of the C-9/Snake Creek Canal (draining northern Miami-Dade and southern Broward Counties); C-8/Biscayne Canal, C-7/Little River Canal, C-6/Miami Canal and Miami River, C-4/Tamiami Canal, C-5/Comfort Canal, C-3/Coral Gables Canal, and C-2/Snapper Creek Canal.

These basins receive drainage from approximately 18 incorporated municipalities plus a large densely-developed, unincorporated area of northern Miami-Dade County. Some of the larger incorporated areas within the planning unit include portions of Miami, Coral Gables, Pembroke Pines, and Hollywood, as well as all of Hialeah, Miramar, and Opa-Locka. The South Broward Drainage District has responsibility for surface water management in the northernmost portion of the planning unit that lies in Broward County. Surface water management for the remaining area of the planning unit outside the purview of SFWMD is the responsibility of Miami-Dade County.

Water Quality Summary

Most data used in this preliminary IWR evaluation were obtained from monitoring by the Miami-Dade DERM, SFWMD, and the Department. **Table 3.5** includes a summary of the water quality assessment status of all waterbody segments within the planning unit. Waterbodies represented by these data include the main SFWMD canals, segments thereof, as well as several significant tributary canals and lakes that have been monitored. Segments of canals below salinity control structures were evaluated separately using estuarine water quality criteria.

According to the Department's evaluation of existing data, there are 20 WBIDs in this planning unit, most of which are canals or canal segments. Of these, 12 were identified in the evaluation as potentially impaired, 15 had sufficient data to be found not impaired for some

Information on Point Sources in Planning Units

Point sources contributing pollution to surface water or ground water originate from discrete, well-defined areas such as a facility discharge from the end of a pipe that discharge to surface waterbodies. Point sources generally fall into two major types: domestic wastewater sources, which consist of sewage from homes, businesses, and institutions, and industrial wastewater sources, which include wastewater, runoff, and leachate from

industrial or commercial storage, handling, or processing facilities. Landfills, hazardous waste sites, and delineated ground water contamination areas could also be considered point sources. These sites have the potential to leach contaminants into ground water and surface water.

A detailed assessment of water quality in the basins for the purpose of TMDL development requires identification of the source(s) of waterbody

impairment. As part of this report, information was presented on permitted facilities that discharge wastewater, landfills, and other point sources. Domestic and industrial surface discharge facilities in the planning units are listed with their design flows in **Appendix E**. The landfills or solid waste facilities in the planning units are also listed in **Appendix E**.

Environmental Remediation

Environmental remediation activities cover a broad spectrum of cleanup programs. These include state-managed hazardous waste, dry cleaning, and petroleum cleanup programs, as well as the federal Superfund and Resource Conservation and Recovery Act (RCRA) programs. These programs are designed to remediate ground water and soil contamination that pose a

threat to public health and the environment.

The National Priorities List (NPL) is a consolidated list of the uncontrolled hazardous waste sites that pose the greatest threat to public health or the environment. Sites are listed on the NPL upon completion of a preliminary assessment, site inspection, and hazardous ranking system evaluation to determine their potential

for adverse impacts and priority for corrective action. The EPA Superfund program administers the cleanup of NPL sites.

The Department's state-funded cleanup program administers the cleanup of contaminated hazardous waste sites when enforcement action taken against a responsible party is unsuccessful or when no responsible party is identified.

Delineated Ground Water Contamination Areas

The Department's Delineation Program was originally established in response to the discovery of ground water contaminated by ethylene dibromide (EDB), a soil fumigant that was once widely used in agricultural applications. However, the program now includes ground water contaminated by other pesticides, as well as industrial solvents, and nutrients. The coverage of delineated areas in this program is not intended to include all sources of contaminated ground

water in Florida. The Delineation Program is designed to ensure the protection of public health when consuming potable ground water supplies and to minimize the potential for cross-contamination of adjacent ground water resources.

The Delineation Program's primary responsibilities are to

- delineate areas of known ground water contamination;
- implement a water well construction permitting/application process that

requires stringent water well construction standards within delineated areas; and

- require testing after completion of drinking water wells in delineated areas to ensure the potable quality of the water source.

Within delineated ground water contamination areas, water wells that become contaminated may be equipped with individual water treatment systems or users may be connected to existing public water supply systems.

Nonpoint Sources and Land Use

Rainfall generates stormwater runoff, which as it flows over the land surface and through the ground, may carry non-point source pollution from many different sources to the canals, rivers, and estuaries

of the watershed. Nonpoint sources also include atmospheric deposition and leaching from agricultural lands, urban areas, and nonvegetated lands. In many areas, these sources are the major cause of surface and

ground water pollution, and the pollutants often include nutrients, bacteria, heavy metals, and sediments. General land use summary information for the planning units is provided in **Appendix F**.

Table 3.5: Integrated Water Quality Assessment Summary for the North Dade Planning Unit

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
North Miami-Dade County	3283	Snake Creek Canal East	Stream	IIIF	N/A	DO	Arsenic, Cadmium, Chlorophyll <i>a</i> , Cyanide, Conductance, Chromium 3, Copper, Fluoride, Fecal Coliforms, Mercury in Fish, Nickel, Lead, Antimony
North Miami-Dade County	3283A	DeSoto Lake	Lake	IIIF	N/A	N/A	TSI
North Miami-Dade County	3284	Snake Creek Canal West	Stream	IIIF	DO, Mercury in Fish, Nutrients	DO, Mercury in Fish, Nutrients	Chlorophyll <i>a</i> , Conductance, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, Unionized Ammonia, pH
North Miami-Dade County	3285	C-8/Biscayne Canal	Stream	IIIF	DO, Fecal Coliforms, Nutrients	Conductance, DO, Fecal Coliforms, Nutrients, Total Coliforms	Arsenic, Cadmium, Cyanide, Chromium 3, Copper, Fluoride, Mercury in Fish, Nickel, Lead, Antimony, Thallium, Turbidity, Unionized Ammonia
North Miami-Dade County	3286A	C-6/Miami Canal West	Stream	IIIF	N/A	DO	Arsenic, Cadmium, Chlorophyll <i>a</i> , Cyanide, Conductance, Chromium 3, Copper, Fluoride, Fecal Coliforms, Mercury in Fish, Nickel, Lead, Antimony
North Miami-Dade County	3286C	Snapper Creek	Stream	IIIF	N/A	DO	Arsenic, Cadmium, Conductance, Chromium 3, Copper, Fecal Coliforms, Nickel, Lead, Antimony, Total Coliforms, Thallium, Turbidity, Zinc, pH
North Miami-Dade County	3287	C-7/Little River	Stream	IIIF	DO, Fecal Coliforms, Nutrients	DO, Fecal Coliforms, Nutrients, Total Coliforms	Arsenic, Cadmium, Cyanide, Conductance, Chromium 3, Copper, Fluoride, Nickel, Lead, Antimony, Thallium, Turbidity, Zinc, pH
North Miami-Dade County	3288	C-6/Miami River	Estuary	IIIM	DO, Fecal Coliforms	Copper, DO, Fecal Coliforms, Total Coliforms	Cadmium, Chlorophyll <i>a</i> , Nickel, Lead, Selenium, Turbidity, Zinc, pH
North Miami-Dade County	3288A	Wagner Creek	Estuary	IIIM	DO, Fecal Coliforms, Nutrients	Copper, DO, Fecal Coliforms, Nutrients, Total Coliforms	Cadmium, Lead, Turbidity, Zinc, pH
North Miami-Dade County	3290	C-6/Miami Canal	Estuary	IIIF	N/A	DO, Fecal Coliforms	Arsenic, Cadmium, Chlorophyll <i>a</i> , Conductance, Chromium 3, Copper, Fluoride, Historical Chlorophyll, Nickel, Lead, Antimony, Total Coliforms

Table 3.5 (continued)

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
North Miami-Dade County	3291	DA-1	Estuary	IIIM	N/A	N/A	N/A
North Miami-Dade County	3292	Coral Gables Canal	Stream	IIIF	N/A	DO, Fecal Coliforms, Total Coliforms	Arsenic, Cadmium, Chlorophyll <i>a</i> , Cyanide, Conductance, Chromium 3, Copper, Nickel, Lead, Antimony, Thallium, Turbidity, Zinc, pH
North Miami-Dade County	3292A	Coral Gables Canal East	Estuary	IIIM	N/A	N/A	N/A
North Miami-Dade County	3293	C-2/Snapper Creek	Stream	IIIF	N/A	N/A	Chlorophyll <i>a</i> , Conductance, pH
North Miami-Dade County	3293A	Hammock Lake West	Lake	IIIF	N/A	N/A	N/A
North Miami-Dade County	3293A1	Hammock Lake East	Lake	IIIF	N/A	N/A	TSI
North Miami-Dade County	3293B	C2/Snapper Creek East	Estuary	IIIM	N/A	DO	Chlorophyll <i>a</i> , Copper, Fecal Coliforms, Historical Chlorophyll, Lead, Total Coliforms, Turbidity, Zinc, pH
North Miami-Dade County	3294	DA-2	Stream	IIIF	N/A	N/A	N/A
North Miami-Dade County	3296	DA-3	Stream	IIIF	N/A	N/A	N/A
North Miami-Dade County	6001A	Matheson Hammock	Coastal	IIIM	N/A	Mercury in Fish	Chlorophyll <i>a</i> , Copper, DO, Fecal Coliforms, Historical Chlorophyll, Lead, Total Coliforms, Turbidity, Zinc, pH

Table 3.5 (continued)

Notes:

¹The designation “stream” includes canals, rivers, and sloughs. The designation “lake” includes some marshes.

²The state’s surface water classifications are as follows:

Class I: Potable water supplies

Class II: Shellfish propagation or harvesting

Class III: Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife

Class IV: Agricultural water supplies

Class V: Navigation, utility, and industrial use (there are no state waterbodies currently in this class)

³Parameters in **bold** exceed Verified List screening criteria

⁴Status based on Planning List screening criteria

F = Fresh water M = Marine DO = Dissolved oxygen TSI = Trophic state index

constituents, and 8 did not have sufficient data to be evaluated. Several potentially impaired waterbodies or segments met the Verified List screening criteria for certain parameters, although the verified listing does not occur until Phase 2 of the basin rotation cycle.

The parameter for which most WBIDs are potentially impaired is DO (10 waterbodies or segments). As stated previously, causative pollutants for DO impairment must be identified before listing as verified. Several potential impairments were also identified for metals (beryllium, selenium, silver, copper, and lead). There were 2 WBIDs identified as potentially impaired based on a fish consumption advisory issued by the DOH (Snake Creek Canal West [WBID 3284] and Matheson Hammock [WBID 6001A]) and 6 waterbody segments identified as potentially impaired based on fecal and/or total coliform levels. A total of 5 of these WBIDs were also included on EPA’s 1998 303(d) list for several constituents.

Permitted Discharges and Land Uses

Point Sources. According to the Department’s database, there are 47 permitted wastewater treatment facilities in this planning unit, 35 of which have NPDES permits for discharge to surface water. None of the NPDES facilities are domestic wastewater facilities and only 4 have industrial discharges. Most of the facilities (18) are industrial facilities whose process areas are covered and do not generate industrial wastewater discharges to surface water. They are actually exempt from NPDES permits because the runoff they produce is from uncontaminated areas. The largest surface water discharge (an industrial facility) is cooling water from the Florida Power and Light Cutler Plant. There are 43 permitted solid waste facilities, 33 of which are active. These include 12 Class I and II facilities. In the North Dade planning unit, there are 10 CERCLIS sites (4 delisted), 5 state hazardous waste sites, and 11 Brownfields redevelopment sites. CERCLIS stands for the acronym used in the EPA Superfund Query Form database known as the Comprehensive Environmental Response, Compensation, and Liability Information System. These facilities and sites are shown on **Figure 3.4**.

Nonpoint Sources. Urban/residential land uses are predominant in this area (covering approximately 59 percent of the area). Runoff from urban areas may impact water quality in the main canals and the network of canals flowing into them. Urban areas includes about 38 percent in residential use and the rest in commercial, industrial, institutional,

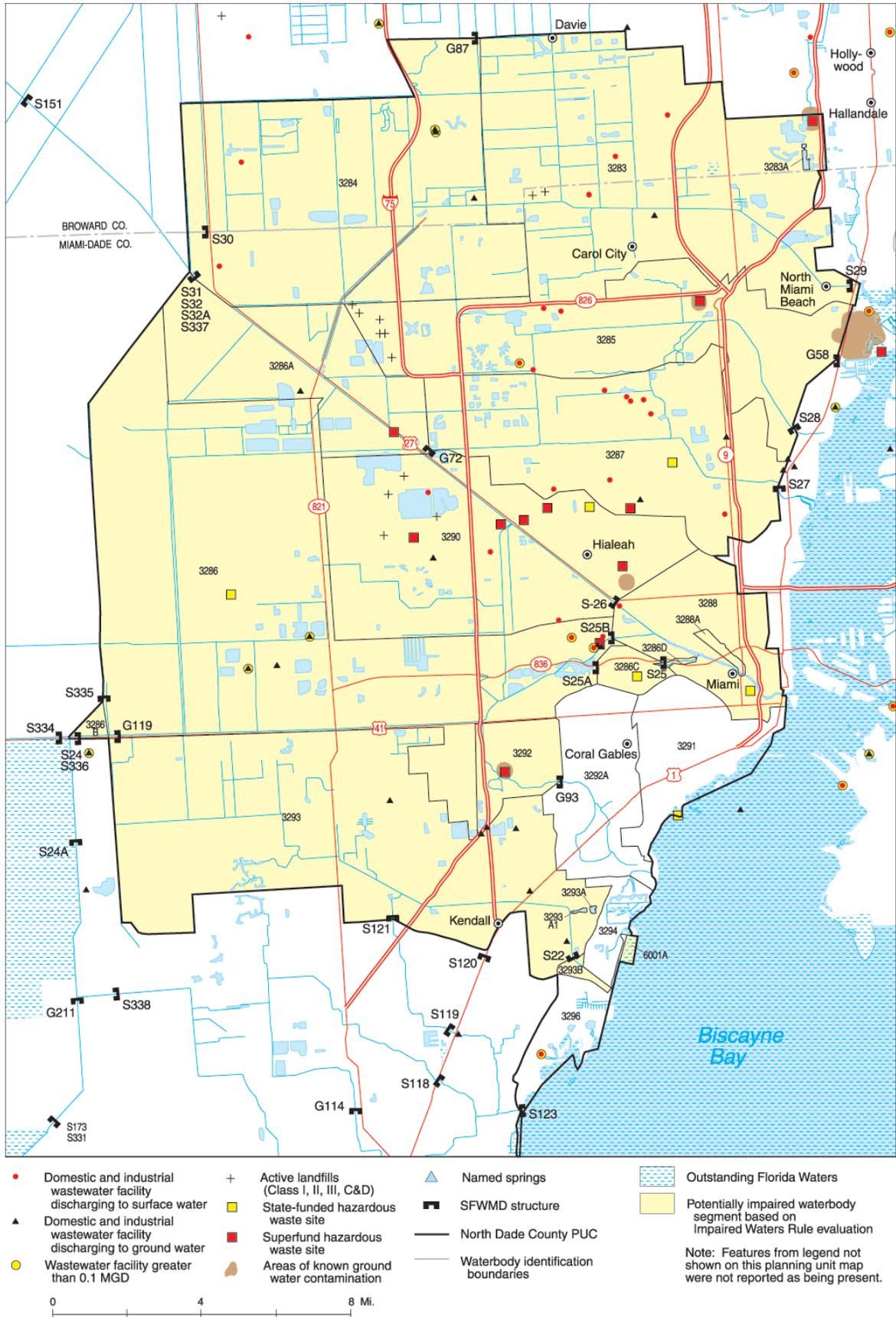


Figure 3.4: Composite Map of the North Dade Planning Unit



recreational, and other urban land use categories. Approximately 7 percent of the planning unit (mostly in the western part) is in agricultural land uses (most is pasture). Transportation and utility land uses cover approximately 7 percent of the area. Undeveloped land in the form of upland forest makes up approximately 14 percent of the land area (over 12 percent in invasive species). The remaining land cover percentages are made up of water (5 percent) and wetlands (7 percent). Inflows to the main canals from outside of this planning unit are from the water conservation areas.

- **South Dade Planning Unit**

General Description

The South Dade planning unit includes SFWMD drainage basins in southern Miami-Dade County that discharge to the southern part of Biscayne Bay. The area (including approximately 413 square miles) extends south of the C-4/Snapper Creek Canal basin and east of the Everglades National Park as far as Biscayne Bay and the Florida Keys. It includes the predominantly agricultural drainage basins of the C-100/Cutler Drain Canal, C-1/Black Creek Canal, C-102/Princeton Canal, C-103/Mowry Canal, plus Homestead/Military Canal, Florida City, and Model Land basins. The incorporated areas in this planning unit are Homestead and Florida City. **Figure 3.5** includes this planning unit.

Water Quality Summary

Most data used in this preliminary IWR evaluation were obtained from monitoring by the Miami-Dade DERM, SFWMD, and the Department. **Table 3.6** includes a summary of the water quality assessment status of all waterbody segments within the planning unit. Waterbodies represented by these data include the main SFWMD canals, segments thereof, as well as several tributary drainage areas, a lake, and two estuarine segments that have been monitored. Segments of canals below salinity control structures were evaluated separately using estuarine water quality criteria.

According to the Department's evaluation of existing data, there are 19 WBIDs in this planning unit. Of these, 13 were identified in the evaluation as potentially impaired and 6 did not have sufficient data to be evaluated. Nine of the WBIDs identified as potentially impaired were canals that were listed for DO and 1 WBID is a lake (WBID 3295A). As stated previously, causative pollutants for DO impairment (e.g., nutrients or biological oxygen demand [BOD]) must be identified before listing as verified. A total of 3 of these WBIDs were also included on EPA's 1998 303(d) list for several constituents.

Permitted Discharges and Land Uses

Point Sources. According to the Department's database, there are 19 permitted wastewater treatment facilities in this planning unit, only 2 of which have NPDES permits for discharge to surface water. Both of the NPDES permits are for industrial discharges of cooling water from power plants—the Turkey Point Nuclear Power Plant and the Homestead Municipal Power Plant. There are 12 permitted solid waste facilities, 2 of which

Table 3.6: Integrated Water Quality Assessment Summary for the South Dade Planning Unit

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
South Miami-Dade County	3295	C-100	Stream	IIIF	N/A	N/A	Arsenic, Cadmium, Chlorophyll <i>a</i> , Cyanide, Conductance, Chromium 3, Copper, Fluoride, Mercury in Fish, Turbidity, Zinc, pH
South Miami-Dade County	3295A	Crossing Lake	Lake	IIIF	N/A	DO	Cadmium, Conductance, Copper, Fecal Coliforms, Lead, Total Coliforms, Turbidity, Zinc, pH
South Miami-Dade County	3297	C-1/Black Creek	Stream	IIIF	N/A	DO	Alkalinity, Arsenic, Cadmium, Chlorophyll <i>a</i> , Cyanide, Conductance, Chromium 3, Copper, Fluoride, Fecal Coliforms, Historical Chlorophyll
South Miami-Dade County	3298	Black Creek	Estuary	IIIM	N/A	DO	Copper, Fecal Coliforms, Lead, Total Coliforms, Turbidity, Zinc, pH
South Miami-Dade County	3298A	Goulds Canal	Stream	IIIF	N/A	Conductance, DO, Fecal Coliforms	Arsenic, Cadmium, Cyanide, Chromium 3, Copper, Mercury in Fish, Nickel, Lead, Antimony, Total Coliforms, Thallium, Turbidity, Zinc, pH
South Miami-Dade County	3298B	DA-4	Estuary	IIIM	N/A	DO	Fecal Coliforms, Total Coliforms, Turbidity, pH
South Miami-Dade County	3298C	Black Point Marina	Estuary	IIIM	N/A	N/A	N/A
South Miami-Dade County	3299	C-111	Stream	IIIF	N/A	N/A	N/A
South Miami-Dade County	3300	C-102	Stream	IIIF	N/A	DO	Arsenic, Cadmium, Chlorophyll <i>a</i> , Cyanide, Conductance, Chromium 3, Copper, Fluoride, Fecal Coliforms, Nickel, Lead, Antimony, Total Coliforms
South Miami-Dade County	3302	C-103/Mowry Canal	Stream	IIIF	N/A	DO	Arsenic, Cadmium, Chlorophyll <i>a</i> , Cyanide, Conductance, Chromium 3, Copper, Fluoride, Fecal Coliforms, Nickel, Lead, Antimony, Total Coliforms
South Miami-Dade County	3304	Homestead	Stream	IIIF	Cadmium, Copper, Lead	DO	Arsenic, Cadmium, Conductance, Chromium 3, Copper, Fecal Coliforms, Nickel, Lead, Antimony, Selenium, Total Coliforms, Thallium, Turbidity

Table 3.6 (continued)

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
South Miami-Dade County	3305	North Canal	Stream	IIIF	N/A	DO	Cadmium, Chlorophyll <i>a</i> , Conductance, Copper, Fecal Coliforms, Lead, Total Coliforms, Turbidity, Zinc, pH
South Miami-Dade County	3286D	C-5/Comfort Canal	Stream	IIIF	N/A	N/A	N/A
South Miami-Dade County	3301	C-111	Stream	IIIF	N/A	N/A	N/A
South Miami-Dade County	3303	C-111 Canal	Stream	IIIF	DO, Mercury in Fish	DO, Iron, Mercury in Fish	246 Trichlorophenol, 24 Dinitrotoluene, Anthracene, Aldrin, Alkalinity, Acenaphthene, Arsenic, Beta BHC, Bromoform, Cadmium, Chlorophyll <i>a</i>
South Miami-Dade County	3303A	C-113	Stream	IIIF	DO, Nutrients	DO, Iron, Nutrients	Aldrin, Alkalinity, Arsenic, Beta BHC, Cadmium, Chlordane, Chlorophyll <i>a</i> , Conductance, Copper, Demeton, Dieldrin, Endosulfan, Endrin
South Miami-Dade County	3303B	C-111 Coastal	Estuary	IIIF	N/A	Conductance, DO	Chlorophyll, Copper, Fecal Coliforms, Historical Chlorophyll, Lead, Total Coliforms, Turbidity, Zinc, pH
South Miami-Dade County	3306	Florida City	Stream	IIIF	N/A	DO	Cadmium, Conductance, Copper, Fecal Coliforms, Lead, Total Coliforms, Turbidity, Zinc, pH
South Miami-Dade County	3307	Model Land	Stream	IIIF	N/A	N/A	N/A

Notes:

¹The designation “stream” includes canals, rivers, and sloughs. The designation “lake” includes some marshes.

²The state’s surface water classifications are as follows:

Class I: Potable water supplies

Class II: Shellfish propagation or harvesting

Class III: Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife

Class IV: Agricultural water supplies

Class V: Navigation, utility, and industrial use (there are no state waterbodies currently in this class)

³Parameters in **bold** exceed Verified List screening criteria

F = Fresh water

M = Marine

DO = Dissolved oxygen



are active. Most are Class V landfills that receive construction demolition debris. In the South Dade planning unit, there is 1 CERCLIS site (delisted), 1 state hazardous waste site, and 4 Brownfields redevelopment sites. These facilities and sites are shown on **Figure 3.5**.

Nonpoint Sources. This planning unit lies adjacent to the Everglades and encompasses many of the Biscayne Bay coastal wetlands; its dominant land cover (37 percent) is wetlands. However, agricultural and urban/residential land uses apply to much of the land area.

Agricultural land uses cover approximately 27 percent of the area. They are composed mainly of row crops (13.5 percent), groves (12 percent), ornamental nurseries (10 percent), and field crops (5 percent). Urban/residential land uses cover approximately 23 percent of the South Dade planning unit, with low and medium density residential development covering the bulk (17 percent). Transportation and utility land uses cover approximately 5 percent of the area. Inflows to the main canals from outside of this planning unit are from the water conservation areas.

- **Intracoastal Planning Unit**

General Description

The Intracoastal planning unit includes most of the coastal area that drains directly to the AICW of Broward and northern Miami-Dade Counties and to Biscayne Bay as well as the waterbodies themselves. This area, including beaches and nearshore waters of the Atlantic Ocean, is approximately 105 square miles.

The area of eastern Broward County lying within this planning unit includes most of Ft. Lauderdale and Pompano Beach as well as portions of Hollywood and Dania. These all drain to the AICW. Significant portions of 13 municipal areas in northeastern Miami-Dade County lie within this planning unit and drain to the Miami-Dade County portion of the AICW, as well as northern and central segments of Biscayne Bay. The Port of Miami is located in the northern segment of the bay.

This planning unit includes most of the points of discharge of the SFWMD canals, which are located along the AICW or Biscayne Bay. There are a total of 17 discharge points (or outfalls) for the major canals that drain and transport water across the urban areas of Broward/North Dade and agricultural/urban areas of South Dade. In addition, there are a multitude of smaller stormwater outfalls from the networks of secondary canals, pipes, and ditches that drain nearby areas.

Water Quality Summary

Table 3.7 includes a summary of the water quality assessment status of the waterbodies and segments within this planning unit. There are 46 individual waterbodies or waterbody segments in this planning unit that include estuarine segments, several lakes, and nearshore segments of the Atlantic Ocean. Most (36) of this total is composed of coastal water segments and subsegments that are mainly bathing beaches. The remainders include estuarine segments (7) and lakes (3). Of these, 36 have been found to be potentially impaired, 10 do not have sufficient data to be

Table 3.7: Integrated Water Quality Assessment Summary for the Intracoastal Planning Unit

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
Biscayne Bay Inter-coastal	3226G	ICWW Ab Dade Co.	Estuary	IIIM	DO, Fecal Coliforms, Nutrients	Historical Chlorophyll, Nutrients	Arsenic, Cadmium, Chlorophyll <i>a</i> , DO, Fecal Coliforms, Iron, Total Coliforms, Turbidity, Zinc, pH
Biscayne Bay Inter-coastal	3226GB	George English Park	Coastal	IIIM	N/A	Fecal Coliforms, Mercury in Fish	N/A
Biscayne Bay Inter-coastal	3226H	ICWW Dade Co.	Estuary	IIIM	N/A	DO, Fecal Coliforms	Arsenic, Cadmium, Chlorophyll <i>a</i> , Copper, Fluoride, Mercury, Historical Chlorophyll, Lead, Selenium, Total Coliforms, Turbidity, Zinc, pH
Biscayne Bay Inter-coastal	3226H1	North Dade ICWW	Estuary	IIIM	N/A	N/A	Cadmium, Chlorophyll <i>a</i> , DO, Fecal Coliforms, Historical Chlorophyll, Lead, Total Coliforms, Turbidity, Zinc, pH
Biscayne Bay Inter-coastal	3226H2	Haulover Inlet/Arch Creek	Estuary	IIIM	N/A	N/A	Cadmium, Chlorophyll <i>a</i> , Copper, DO, Fecal Coliforms, Historical Chlorophyll, Lead, Total Coliforms, Turbidity, Zinc, pH
Biscayne Bay Inter-coastal	3226H3	Port of Miami	Estuary	IIIM	N/A	Fecal Coliforms	Copper, DO, Lead, Total Coliforms, Turbidity, Zinc, pH
Biscayne Bay Inter-coastal	3226H4	Key Biscayne	Estuary	IIIM	N/A	N/A	N/A
Biscayne Bay Inter-coastal	3226HB	Oleta State Park	Coastal	IIIM	N/A	Mercury in Fish	Chlorophyll <i>a</i> , DO, Fecal Coliforms, Historical Chlorophyll, Turbidity
Biscayne Bay Inter-coastal	3226I	Culvert In West Lake V	Lake	IIIF	N/A	N/A	N/A
Biscayne Bay Inter-coastal	3226J	Highlands Lake	Lake	IIIF	N/A	N/A	TSI
Biscayne Bay Inter-coastal	3226K	Sky Lake	Lake	IIIF	N/A	N/A	TSI
Biscayne Bay Inter-coastal	6001	Biscayne Bay	Estuary	IIIM	N/A	N/A	Arsenic, Cadmium, Chlorophyll <i>a</i> , Copper, DO, Fecal Coliforms, Historical Chlorophyll, Lead, Total Coliforms, Turbidity, Zinc, pH
Biscayne Bay Inter-coastal	6001B	Hobe Beach	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms

Table 3.7 (continued)

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
Biscayne Bay Inter-coastal	6001C	Card Sound	Coastal	IIIM	N/A	N/A	N/A
Biscayne Bay Inter-coastal	8089	Biscayne Bay Ocean 1	Coastal	IIIM	N/A	Mercury in Fish	Chlorophyll <i>a</i> , DO, Turbidity
Biscayne Bay Inter-coastal	8090	Biscayne Bay Ocean 2	Coastal	IIIM	N/A	Mercury in Fish	Chlorophyll <i>a</i> , DO, Turbidity
Biscayne Bay Inter-coastal	8091	Biscayne Bay Ocean 3	Coastal	IIIM	N/A	Mercury in Fish	Chlorophyll <i>a</i> , DO, Turbidity
Biscayne Bay Inter-coastal	8091A	Cape Florida Park	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8091B	Key Biscayne Beach	Coastal	IIIM	N/A	N/A	Fecal Coliforms
Biscayne Bay Inter-coastal	8091C	Crandon Park–Key Biscayne	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8091D	Virginia Beach	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8092	Miami-Dade County Ocean 1	Coastal	IIIM	N/A	Mercury in Fish	N/A
Biscayne Bay Inter-coastal	8092A	South Beach Park	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8092B	Collins Park–21st St	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8092C	53rd St–Miami Beach	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8092D	North Shore Ocean Terrace	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8093	Miami-Dade County Ocean 2	Coastal	IIIM	N/A	Mercury in Fish	N/A
Biscayne Bay Inter-coastal	8093A	Surfside Beach –93rd St	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms

Table 3.7 (continued)

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
Biscayne Bay Inter-coastal	8093B	Haulover Beach	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8093C	Gilbert Sampson Park–163rd St	Coastal	IIIM	N/A	Mercury in Fish	N/A
Biscayne Bay Inter-coastal	8093D	Golden Beach	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8093E	Hallandale Beach Blvd	Coastal	IIIM	N/A	Mercury in Fish	Chlorophyll <i>a</i> , DO, Fecal Coliforms, Historical Chlorophyll, Total Coliforms, Turbidity, pH
Biscayne Bay Inter-coastal	8094	Miami-Dade County Ocean 3	Coastal	IIIM	N/A	Mercury in Fish	N/A
Biscayne Bay Inter-coastal	8094A	Van Buren St	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8094B	Harrison Street	Coastal	IIIM	N/A	N/A	Fecal Coliforms
Biscayne Bay Inter-coastal	8094C	Minnesota Street	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8094D	North Beach Park Intra-coastal	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8094E	John Lloyd Park	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8094F	Bahia Mar	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8095	Miami-Dade County Ocean 4	Coastal	IIIM	N/A	Mercury in Fish	N/A
Biscayne Bay Inter-coastal	8095A	Birch State Park	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8095B	Oakland Park Blvd	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8095C	Commercial Blvd Pier	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms

Table 3.7 (continued)

Planning Unit	WBID	Waterbody Segment	Waterbody Type ¹	Waterbody Class ²	1998 303(d) Parameters of Concern ⁴	Potentially Impaired (3d) ³	Not Impaired Parameters (2)
Biscayne Bay Inter-coastal	8095D	Pompano Beach Pier	Coastal	IIIM	N/A	Mercury in Fish	Fecal Coliforms
Biscayne Bay Inter-coastal	8089	Biscayne Bay Ocean 1	Coastal	IIIM	N/A	Mercury in Fish	N/A
Biscayne Bay Inter-coastal	8090	Biscayne Bay Ocean 2	Coastal	IIIM	N/A	Mercury in Fish	N/A

Notes:

¹The designation “stream” includes canals, rivers, and sloughs. The designation “lake” includes some marshes.

²The state’s surface water classifications are as follows:

Class I: Potable water supplies

Class II: Shellfish propagation or harvesting

Class III: Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife

Class IV: Agricultural water supplies

Class V: Navigation, utility, and industrial use (there are no state waterbodies currently in this class)

³Parameters in **bold** exceed Verified List screening criteria

⁴Status based on Planning List screening criteria

F = Fresh water

M = Marine

DO = Dissolved oxygen

evaluated for any water quality parameter, and 6 have been evaluated for one or more parameters and are not impaired based on available data.

Most of the potentially impaired waterbodies/segments (33) are segments of the Atlantic Ocean that have been identified because of fish consumption advisories, not specific water quality violations or exceeded criteria. Waterbodies identified by DOH that have fish consumption advisories based on mercury or other substances are considered as impaired under the IWR (Chapter 62-303, F.A.C.).

The AICW of Broward County (3226G) has been identified in the evaluation as potentially impaired for nutrients based on statistically increasing trends in chlorophyll *a* concentrations. In addition, northern Biscayne Bay (3226H) of the AICW and the Port of Miami (3226H3) are identified as potentially impaired based on fecal coliform levels.

Biological data are sometimes used in support of chemistry data to indicate that nutrient-related imbalances of flora or fauna exist. In 2003, Department investigators conducted a study of the impacts of nutrient-enriched discharges from two south Miami-Dade canals that discharge to Biscayne Bay (Graves and others, 2003 [in draft]). Their findings indicate a definite imbalance in macroinvertebrate communities within Biscayne Bay near the discharge points of the C-102/Princeton Canal and the C-103/Mowry Canal in south Miami-Dade County. Comparative data from another canal were used to evaluate and seem to confirm that the imbalances associated with these canals are attributable to excessive nutrients (specifically nitrate) in the water being discharged.

Permitted Discharges and Land Uses

Point Sources. According to the Department’s wastewater facility database, there are 39 wastewater treatment facilities in this planning unit, 21 of which discharge to surface water. Most of the NPDES facilities are fuel terminals at Port Everglades that discharge to the AICW in Broward County. The largest dischargers by design volume are domestic wastewater facilities—the Hollywood South Regional Wastewater Facility (42 mgd design) and the Miami-Dade Water and Sewer Department North Plant (112 mgd design). Both of these largest dischargers have deep ocean outfalls. In this planning unit, there are also 10 permitted solid waste facilities (none of which are active), 2 CERCLIS sites (1 delisted), 1 state hazardous waste cleanup site (delisted), and 3 Brownfields areas. **Figures 3.6** and **3.7** include permitted wastewater treatment facilities and landfills in the Intracoastal planning unit.

Nonpoint Sources. Within this planning unit, urban development poses the greatest concern for water quality. Approximately 61 percent of the area is covered by urban development. The breakdown of urban land uses includes 29 percent as medium-to-high density residential development, 8 percent tourist services, and 8 percent mixed commercial services. Transportation facilities, which include roads, canals and locks, shipping ports, electrical transfer lines, etc., account for almost 10 percent of the area. Many of the nonpoint sources that contribute to this basin are via the major canals that transport water from urban and agricultural areas to the west.



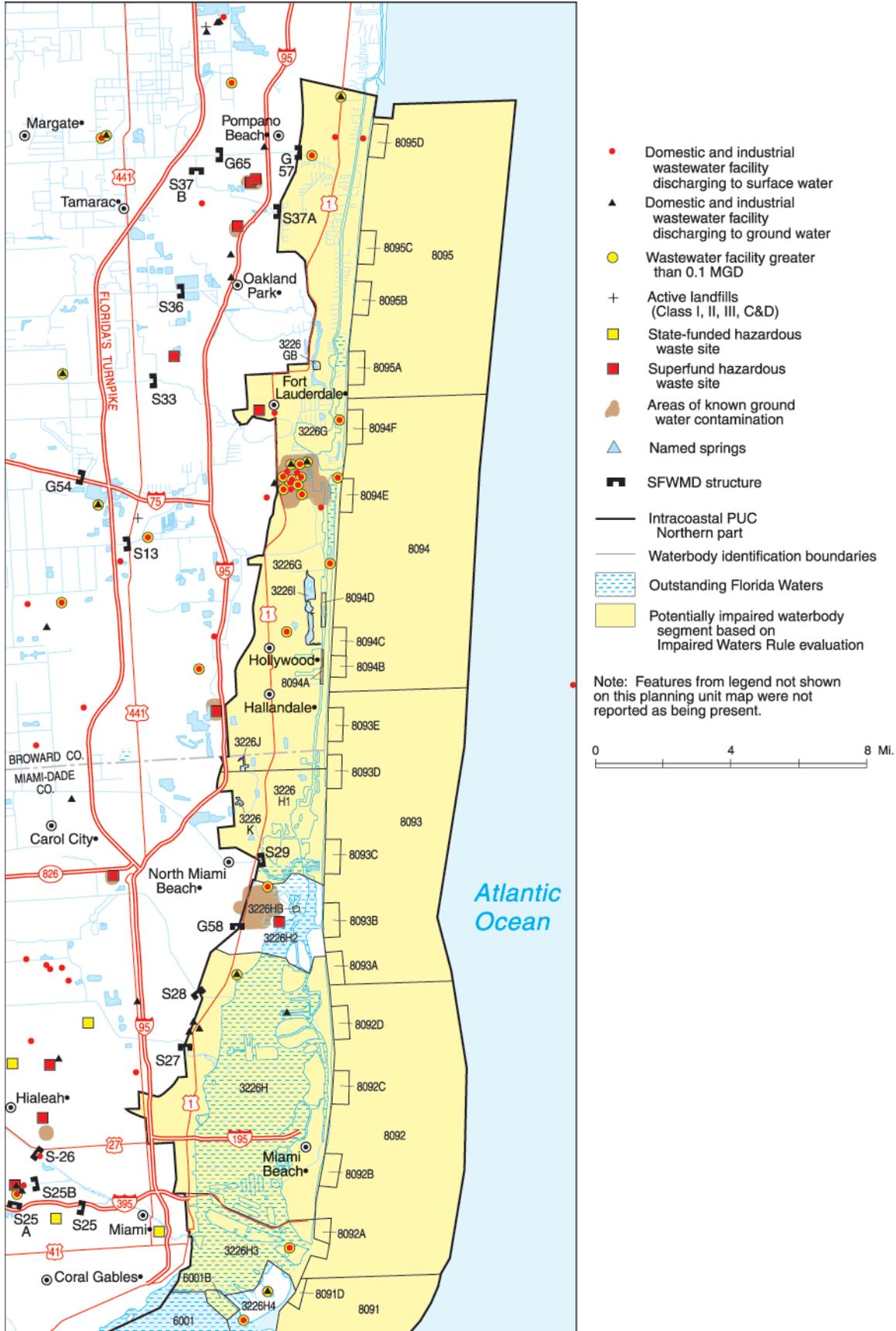
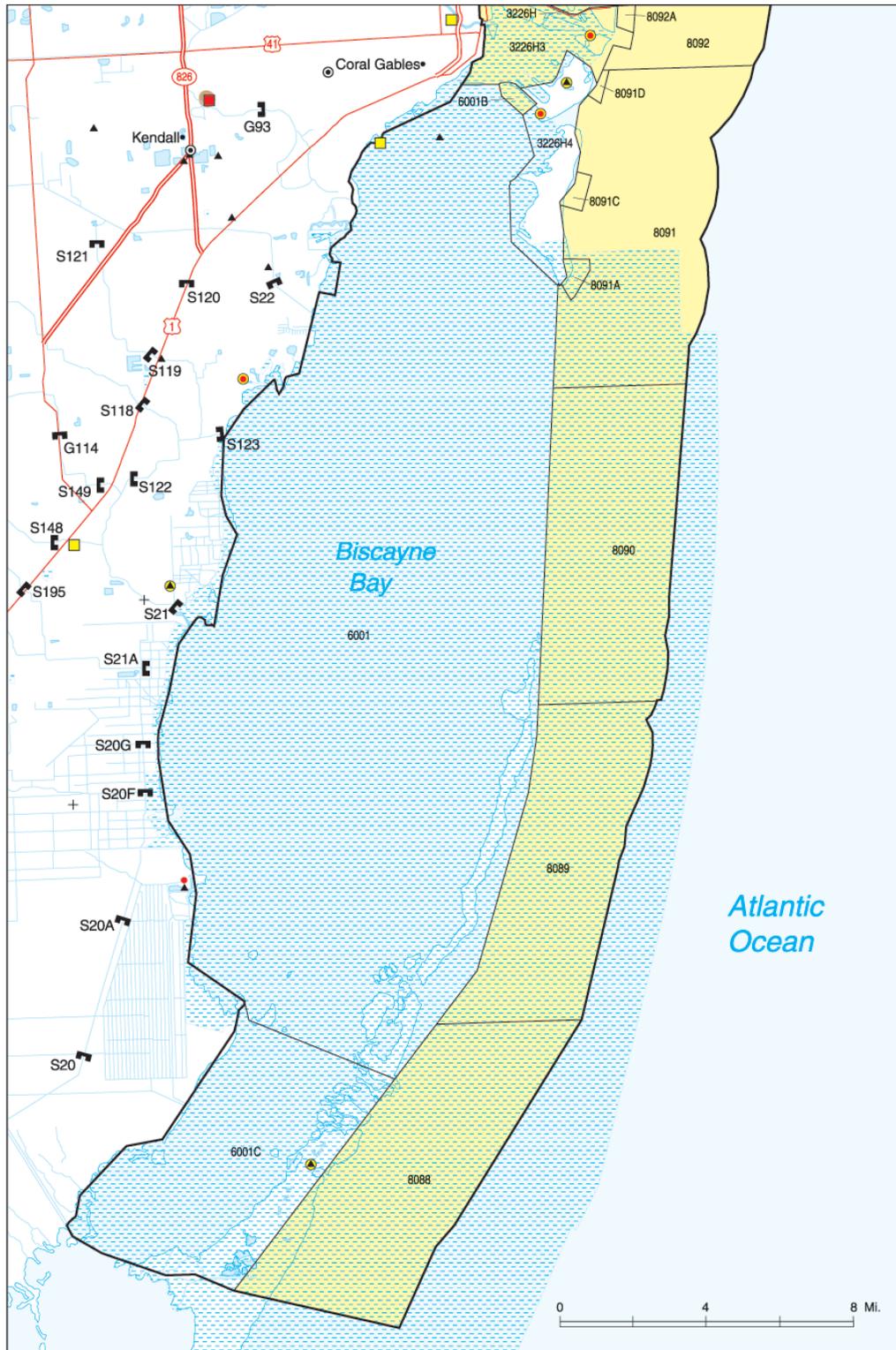


Figure 3.6: Composite Map of the Intracoastal Planning Unit, Northern Portion



- Domestic and industrial wastewater facility discharging to surface water
 - ▲ Domestic and industrial wastewater facility discharging to ground water
 - Wastewater facility greater than 0.1 MGD
 - + Active landfills (Class I, II, III, C&D)
 - State-funded hazardous waste site
 - Superfund hazardous waste site
 - Areas of known ground water contamination
 - ▲ Named springs
 - SFWMD structure
 - Intracoastal PUC Southern part
 - Waterbody identification boundaries
 - Outstanding Florida Waters
 - Potentially impaired waterbody segment based on Impaired Waters Rule evaluation
- Note: Features from legend not shown on this planning unit map were not reported as being present.

Figure 3.7: Composite Map of the Intracoastal Planning Unit, Southern Portion



Chapter 4: The Planning List of Potentially Impaired Waters

The Planning List

The Planning List (**Table 4.1**) includes all waterbody segments within the Biscayne Bay–Southeast Coast Basin Group that have been identified as potentially impaired based on the Impaired Surface Waters Rule (IWR) evaluation as well as those that had previously been included on the 1998 303(d) list. The IWR methodology used to develop the Planning List follows the tenet of “independent applicability,” which means that a waterbody will be listed if any of its designated uses are potentially impaired.

Table 4.1 includes each waterbody segment, why it was listed as potentially impaired, and the parameters of concern. The table also differentiates between potential impairments identified by the IWR assessment and those related to the 1998 303(d) list. Waterbody segments on the Planning List are shown in **Figure 4.1**. In this figure, the entire watersheds for listed waterbody segments are highlighted. However, in most cases only the main waterbody in the assessment unit has been assessed, and other waterbodies in the watershed may not be impaired.

Waterbody segments on the Planning List must meet specific thresholds and data sufficiency and data quality requirements in the IWR (Section 62-303, Florida Administrative Code [F.A.C.]). A description of the legislative and regulatory background for the development of the Planning and Verified Lists can be found in **Appendix A**. The methodology that describes the criteria and thresholds that are required for both lists under the IWR is available in **Appendix B**.

Relationship between the Planning List and the 303(d) List

The Planning List represents the first step in a two-step process used to update the state’s Section 303(d) list of impaired waterbodies for this basin group. Potentially impaired waterbodies identified in this report will be further assessed during Phase 2 of the watershed management cycle to verify whether they are impaired. In addition to more thoroughly evaluating the data used to place these waterbodies on the Planning List (including the verifying quality assurance and data sufficiency), the Florida Department of Environmental Protection (Department), working with local stakeholders, will identify other existing data and collect additional data as needed to complete the assessment.

Once additional monitoring is completed, the data will be assessed and the Department will develop a Verified List of impaired waterbodies. The



Significance of the Planning List

*Under the Florida Watershed Restoration Act (FWRA), the Planning List will be submitted to EPA for informational purposes only, and will not be used in the administration or implementation of any regulatory program. However, the Planning List is important, as it is used to guide monitoring in the basin and is the precursor to the Verified List of impaired waterbodies. As such, stakeholders are encouraged to review the Planning List carefully, including the data used by the Department to produce the list. If reviewers identify and have access to pertinent data that were not used, they should enter the data into **STORage RETrieval (STORET)** or submit the data to the Department so that it can be used in the evaluation of waterbodies to be included on the Verified List.*

Table 4.1: Potentially Impaired Waterbodies in the Biscayne Bay–Southeast Coast Basin Group

WBID	Waterbody Segment	Waterbody Type ¹	1998 303(d) List Parameters of Concern	Parameters Potentially Impaired under the 2001 Impaired Surface Waters Rule Criteria
Broward Planning Unit				
3270	C-14/Cypress Creek Canal (Pompano Canal)	Stream	Coliforms, DO	DO
3270X	Margate Lakes	Lake	N/A	N/A
3271	Pompano Canal	Stream	Nutrients	DO, Nutrients (Historical Chlorophyll)
3273	C-13 West/Middle River Canal	Stream	Coliforms, Nutrients, DO	DO, Nutrients (Chlorophyll <i>a</i>)
3274	C-13 East/Middle River Canal	Estuary	N/A	DO, Nutrients (Chlorophyll <i>a</i>) Fecal Coliforms
3274A	Lake Melva	Lake	N/A	N/A
3275	L-35A Borrow Canal	Stream	N/A	N/A
3276	C-12 Canal	Stream	Coliforms, DO	DO
3276A	North Fork New River	Estuary	N/A	Nutrients (Chlorophyll <i>a</i> and Historical Chlorophyll), DO, Fecal Coliforms, Mercury in Fish, Total Coliforms
3277	North New River Canal	Stream	Coliforms, Nutrients, DO	DO
3277A	South Fork New River	Estuary	Coliforms, Nutrients, DO	Copper
3277B	East Holloway Canal	Stream	Coliforms, Nutrients, TSS, DO	N/A
3277C	C-42/West Holloway Canal	Stream	N/A	N/A
3277D	North New River Canal East	Estuary	N/A	N/A
3277E	Dania Cutoff Canal	Stream	N/A	N/A
3277X	Playland Isles Lakes	Lake	N/A	N/A
3277Y	Tarpon River	Estuary	N/A	N/A
3279	South New River Canal/C-11 West	Stream	Coliforms, Nutrients, DO	DO
3279A	North Fork Snake Creek Canal	Stream	N/A	N/A
3280	North New River Canal West	Stream		N/A
3281	C-11 East/South New River Canal East	Stream	Coliforms, Nutrients, DO	DO
3282	Hollywood Canal	Estuary	Nutrients	Nutrients (Chlorophyll <i>a</i> and Historical Chlorophyll)
3283	Snake Creek Canal East	Stream	N/A	DO
3283A	DeSoto Lake	Lake	N/A	N/A

Table 4.1 (continued)

WBID	Waterbody Segment	Waterbody Type ¹	1998 303(d) List Parameters of Concern	Parameters Potentially Impaired under the 2001 Impaired Surface Waters Rule Criteria
North Dade Planning Unit				
3284	Snake Creek Canal West	Stream	Nutrients, Mercury in Fish, DO	DO, Nutrients (Historical Chlorophyll)
3285	C-8/Biscayne Canal	Stream	Coliforms, Nutrients, DO	Conductance, DO, Fecal Coliforms, Total Coliforms, Nutrients (Chlorophyll a)
3286	C-4/Tamiami Canal	Stream	N/A	DO
3286A	C-6/Miami Canal West	Stream	N/A	DO
3286B	C-4/Tamiami Canal West	Stream	Nutrients, DO	DO
3286C	Snapper Creek	Stream	N/A	DO
3287	C-7/Little River Canal	Stream	Coliforms, Nutrients, DO	DO, Fecal Coliforms, Total Coliforms, Nutrients (Chlorophyll a)
3288	C-6/Miami River	Estuary	Coliforms, DO	Copper, DO, Fecal and Total Coliform
3288A	Wagner Creek	Estuary	Coliforms, Nutrients, DO	Copper, DO, Fecal Coliforms, Total Coliforms, Narrative Criteria
3290	C-6/Miami Canal	Estuary	N/A	DO, Fecal Coliforms
3291	DA-1	Estuary	N/A	N/A
3292	Coral Gables Canal	Stream	N/A	DO, Fecal Coliforms, Total Coliforms
3292A	Coral Gables Canal East	Estuary	N/A	N/A
3293	C-2/Snapper Creek Canal	Stream	N/A	DO
3293A	Hammock Lake West	Lake	N/A	N/A
3293A1	Hammock Lake East	Lake	N/A	N/A
3293B	C-2/Snapper Creek Canal East	Estuary	N/A	DO
3294	DA-2	Stream	N/A	N/A
3296	DA-3	Stream	N/A	N/A
6001A	Matheson Hammock	Coastal	N/A	Mercury in Fish
South Dade Planning Unit				
3295	C-100	Stream	N/A	Beryllium, DO, Selenium
3295A	Crossing Lake	Lake	N/A	DO
3297	C-1/Black Creek	Stream	N/A	DO
3298	Black Creek East	Stream	N/A	DO
3298A	Goulds Canal		N/A	DO, Conductance, Fecal Coliforms, Beryllium, Endrin
3298B	DA-4	Estuary	N/A	DO
3298C	Black Point Marina	Estuary	N/A	N/A
3299	C-111 North	Stream	N/A	N/A
3300	C-102	Stream	N/A	DO

Table 4.1 (continued)

WBID	Waterbody Segment	Waterbody Type ¹	1998 303(d) List Parameters of Concern	Parameters Potentially Impaired under the 2001 Impaired Surface Waters Rule Criteria
South Dade Planning Unit, continued				
3301	C-111 North	Stream	N/A	N/A
3302	C-103/Mowry Canal	Stream	N/A	DO
3303	C-111 Canal	Stream	DO, Mercury in Fish	DO, Iron, Silver, Beryllium
3303A	C-113	Stream	DO, Nutrients	DO, Iron
3303B	C-111 Coastal	Estuary	N/A	Conductance, DO
3304	Military Canal/ Homestead	Stream	Cadmium, Copper, Lead	DO
3305	North Canal	Stream	N/A	DO, Silver, Beryllium
3306	Florida City Canal	Stream	N/A	DO
3307	Model Land	Stream	N/A	N/A
Intercoastal Planning Unit				
6001	Biscayne Bay	Estuary	N/A	N/A
8089	Biscayne Bay Ocean 1	Coastal	N/A	Mercury in Fish
8090	Biscayne Bay Ocean 2	Coastal	N/A	Mercury in Fish
8091	Biscayne Bay Ocean 3	Coastal	N/A	Mercury in Fish
8092	Miami-Dade County Ocean 1	Coastal	N/A	Mercury in Fish
8093	Miami-Dade County Ocean 2	Coastal	N/A	Mercury in Fish
8094	Miami-Dade County Ocean 3	Coastal	N/A	Mercury in Fish
8095	Miami-Dade County Ocean 4	Coastal	N/A	Mercury in Fish
3226G	ICW Above Miami-Dade County (Broward)	Estuary	Coliforms, Nutrients, DO	Nutrients (Historical Chlorophyll)
3226GB	George English Park	Coastal	N/A	Mercury in Fish, Fecal Coliforms
3226H	ICW Miami-Dade County	Estuary	N/A	Fecal Coliforms
3226H1	North Dade ICW	Estuary	N/A	Copper
3226H2	Haulover Inlet/ Arch Creek	Estuary	N/A	N/A
3226H3	Port of Miami	Estuary	N/A	Fecal Coliforms
3226H4	Key Biscayne	Estuary	N/A	N/A
3226HB	Oleta State Park	Coastal	N/A	Mercury in Fish
3226I	West Lake	Lake	N/A	N/A
3226J	Highlands Lake	Lake	N/A	N/A
3226K	Sky Lake	Lake	N/A	N/A
6001B	Hobe Beach	Coastal	N/A	Mercury in Fish
6001C	Card Sound	Coastal	N/A	N/A
8091A	Cape Florida Park	Coastal	N/A	Mercury in Fish
8091B	Key Biscayne Beach	Coastal	N/A	N/A

Table 4.1 (continued)

WBID	Waterbody Segment	Waterbody Type ¹	1998 303(d) List Parameters of Concern	Parameters Potentially Impaired under the 2001 Impaired Surface Waters Rule Criteria
Intercoastal Planning Unit, continued				
8091C	Crandon Park–Key Biscayne	Coastal	N/A	Mercury in Fish
8091D	Virginia Beach	Coastal	N/A	Mercury in Fish
8092A	South Beach Park	Coastal	N/A	Mercury in Fish
8092B	Collins Park–21st Street	Coastal	N/A	Mercury in Fish
8092C	53rd Street–Miami Beach	Coastal	N/A	Mercury in Fish
8092D	North Shore Ocean Terrace	Coastal	N/A	Mercury in Fish
8093A	Surfside Beach–93rd Street	Coastal	N/A	Mercury in Fish
8093B	Haulover Beach	Coastal	N/A	Mercury in Fish
8093C	Gilbert Samson Park–163rd Street	Coastal	N/A	Mercury in Fish
8093D	Golden Beach	Coastal	N/A	Mercury in Fish
8093E	Hallandale Beach Boulevard	Coastal	N/A	Mercury in Fish
8094A	Van Buren Street	Coastal	N/A	Mercury in Fish
8094B	Harrison Street	Coastal	N/A	N/A
8094C	Minnesota Street	Coastal	N/A	Mercury in Fish
8094D	North Beach Park Intracoastal	Coastal	N/A	Mercury in Fish
8094E	John Lloyd Park	Coastal	N/A	Mercury in Fish
8094F	Bahia Mar	Coastal	N/A	Mercury in Fish
8095A	Birch State Park	Coastal	N/A	Mercury in Fish
8095B	Oakland Park Boulevard	Coastal	N/A	Mercury in Fish
8095C	Commercial Boulevard Pier	Coastal	N/A	Mercury in Fish
8095D	Pompano Beach Pier	Coastal	N/A	Mercury in Fish
8089	Biscayne Bay Ocean 1	Coastal	N/A	Mercury in Fish
8090	Biscayne Bay Ocean 2	Coastal	N/A	Mercury in Fish

Notes:

¹The designation “stream” includes canals, rivers, and sloughs. The designation “lake” includes some marshes.

DO = Dissolved oxygen

TSS = Total suspended solids

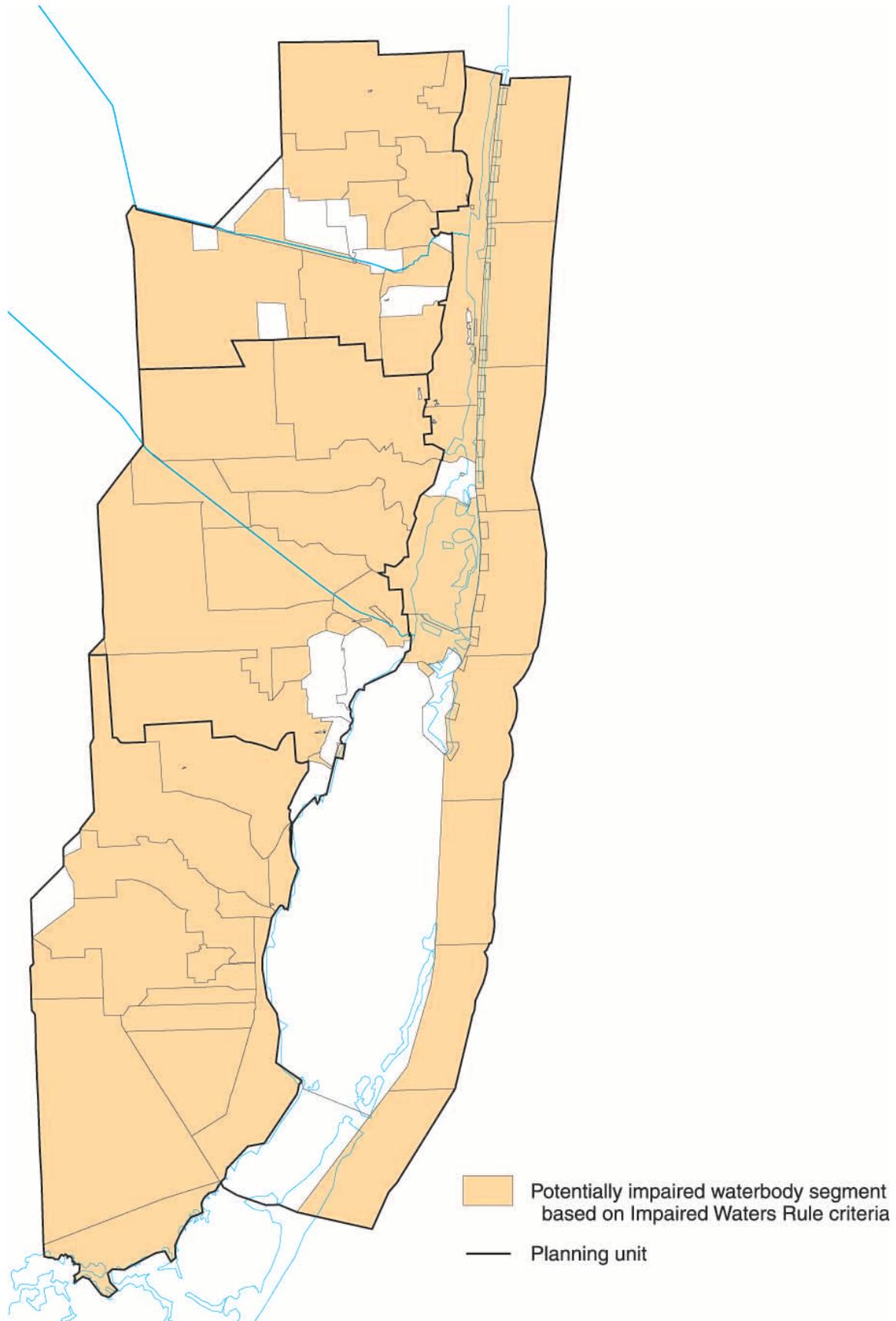


Figure 4.1: Biscayne Bay–Southeast Coast Planning List for All Causes of Potential Impairment, with Overlay of 1998 303(d) List

criteria for data evaluation used to verify impaired waterbodies and produce the Verified List are described in **Appendix B**. The Verified List will be adopted by Secretarial Order and then submitted to the U.S. Environmental Protection Agency (EPA) as an update to Florida’s current 303(d) list. Subsequently, the Department will develop Total Maximum Daily Loads for 303(d) listed waterbodies.



Summary of Impairments

Within the Biscayne Bay–Southeast Coast Basins, there are a total of 98 waterbody segments. Of these, 79 are included on the Planning List as potentially impaired based on the IWR evaluation and/or the 1998 303(d) list criteria. **Table 4.2** provides a summary of the major parameters for which potential impairments were identified based on the 1998 303(d) list and by using the IWR evaluation criteria.

As shown in **Table 4.2**, dissolved oxygen (DO) levels that exceed criteria are the most common potential cause of impaired waterbody segments in these basins. As previously mentioned in this report, low DO levels are not always attributable to pollutants. For this reason, additional work will be conducted prior to developing the Verified List for this basin group to differentiate between pollutant-related and other causes of low DO.

Table 4.2: Parameters Causing Potential Impairments in the Biscayne Bay–Southeast Coast Basin Group

Parameter	Potential Waterbody Segment Impairments			
	On 1998 303(d) List but Not Exceeding IWR Criteria	Exceeding 2001 IWR Criteria but Not on 1998 303(d) List	On 1998 303(d) List and Exceeding 2001 IWR Criteria	Total Potential Impairments
Dissolved Oxygen	3	35	14	36
Nutrients (Unspecified, Chlorophyll <i>a</i> and/or Chlorophyll <i>a</i> Trends)	7	2	5	9
Bacteria (Unspecified, Total and/or Fecal Coliforms)	9	5	4	11
Metals (Beryllium)	0	1	0	1
Metals (Cadmium)	1	4	0	4
Metals (Copper)	1	3	0	3
Metals (Iron)	0	2	0	2
Metals (Lead)	1	1	0	1
Metals (Selenium)	0	1	0	1
Metals (Silver)	0	2	0	2
Suspended Solids (Turbidity)	1	0	0	1
Pesticides/Organics	0	1	0	1
Fish Advisory	2	34	0	34



Fish Consumption Advisories

Information on fish advisories in Florida and specific to this basin group can be found at the Florida Department of Health Web site: <http://www.doh.state.fl.us/environment/hsee/fishconsumptionadvisories/index.html>

Nutrients appear as a prevalent potential cause of impairments on the 1998 303(d) list and based on the IWR evaluation criteria (chlorophyll *a* concentrations in streams and estuaries, chlorophyll *a* trends, and other data that indicate imbalance of flora and fauna). Additional monitoring work to collect more chlorophyll *a* data is being proposed for some of the waterbody segments and will be available to verify the status of waterbodies potentially impaired by nutrients.

Coliform (unspecified as to whether it is total or fecal) is the second most prevalent potential cause of impairment on the 1998 303(d) list and is a potential cause for several waterbodies based on the IWR criteria. The Planning List period of record (10 years) may capture older coliform exceedances related to point source discharges of domestic wastewater to canals that no longer occur. Some of these may not be verified over the 7 years of more recent data used in development of the Verified List because of changes to other wastewater treatment alternatives.

The most prevalent cause for waterbodies and segments to be listed is “fish advisories,” a category that is not directly related to water quality standard or guidance level exceedances. These include “no consumption” and “limited consumption” advisories issued by the Florida Department of Health (DOH) for several species of saltwater fish. Several marine fish consumption advisories apply to all coastal counties of the state. They are based on mercury that bioaccumulates in the tissue of predatory fish (see sidebar for more information). Fish consumption advisories based on mercury apply to many coastal water segments in this basin group. In addition, a “no consumption” advisory was issued in July 2003 by DOH for Checkered Puffer or Striped Mojarra caught in Wagner Creek (waterbody identification number 3288A) due to the detection of high concentrations of dioxins above DOH’s fish advisory level of seven parts per trillion.

Waterbodies without Sufficient Data To Determine Impairment

Any waterbodies that do not have sufficient data to be analyzed in accordance with the requirements of the IWR but that were included on the 1998 303(d) list will remain on the 303(d) list maintained by EPA. They will also be on the Planning List until they have sufficient data for their condition to be evaluated and verified. The Department’s goal is to collect sufficient data for these waterbodies on the Planning List in Phase 2 of the watershed cycle to verify their condition. Chapter 5 provides more information about the Phase 2 monitoring activities.

For some waterbodies in the Biscayne Bay–Southeast Coast Basin Group, the available water quality data are not sufficient to make an assessment and they are not on the 1998 303(d) list. Because of resource limitations, it will not be possible for the Department to monitor all of these waterbodies during the first watershed management cycle. The priority during Phase 2 of the cycle is to conduct monitoring and other data gathering to address potentially impaired waterbodies identified on the Planning List. While the Department plans to monitor waterbodies

without enough data to determine potential impairment during subsequent watershed cycles, available data gathered by others will also be used for this purpose. It is important that the Department and stakeholders in the area coordinate their monitoring efforts to most efficiently collect data for these waterbodies that have not been routinely monitored. Chapter 5 discusses monitoring and data evaluation priorities and objectives, database management issues, and the development of the Verified List.





Chapter 5: Strategic Monitoring and Data Evaluation

Strategic Monitoring and Data Acquisition Priorities

Waters on the Planning List must meet specific thresholds and data sufficiency and data quality requirements in the Impaired Surface Waters Rule (IWR) (Rule 62-303, Florida Administrative Code [F.A.C.]). The Planning List includes waterbody segments that were previously on the 1998 303(d) list, but for which the Florida Department of Environmental Protection (Department) had insufficient data for assessment under the IWR. Additional data that are collected will be used to verify the status of waters listed as potentially impaired, assess those with insufficient data, and support modeling efforts to develop Total Maximum Daily Loads (TMDL) for impaired waterbodies.

Due to resource limitations, the Department alone is not capable of addressing all of the strategic monitoring objectives within the first five-year cycle for the five Group 4 basins. The Department's monitoring focus during the months prior to submitting the Verified List of impaired waters to the U.S. Environmental Protection Agency (EPA) (by October 2004) was to obtain data necessary to verify the status of potentially impaired waters.

Priority for data acquisition has been given to Planning List waterbody segments that are also on the 1998 303(d) list and the potentially impaired waterbodies that did not have sufficient data to verify their condition at the time the Planning List was generated. Data from other monitoring organizations will be included in the evaluation to help verify the condition of potentially impaired waterbodies and provide data by which other waterbodies can be evaluated.



Data Acquisition Objectives

Currently, 82 waterbody segments on the Planning List in this basin are targeted for additional monitoring. As discussed, the Department's focus prior to producing the Verified List is to collect and assemble sufficient data to evaluate waterbodies that are potentially impaired for parameters that do not have sufficient data to meet the Verified List evaluation criteria (Section 62-303.400, F.A.C.). The priority is to collect data for waterbodies on the 1998 303(d) list. An additional monitoring priority is to develop data that may be needed to identify pollutants causing dissolved oxygen (DO) exceedances or biological impairments. As mentioned in Chapter 3, these conditions are at times not attributable to pollutants.

Table 5.1 summarizes the objectives of data gathering and evaluation to verify the condition of waterbody segments on the Planning List. A detailed strategic monitoring plan has been developed to specify the precise monitoring needs addressed in 2004.

Table 5.1 Strategic Monitoring and Data Evaluation Objectives for Planning List Waters in the Biscayne Bay-Southeast Coast Basin

WBID	Water Segment Name	Verify Potential Impairment (Parameters Exceeding IWR Planning List Criteria and/or on the 1998 303[d] list)	Confirm Impairment (Parameters Exceeding IWR Verified List Evaluation Criteria)	Monitoring and Data Evaluation Objectives To Address Planning List Waterbody Segments		
				Current Proposed Action	Additional Data Needs (Obs./ Time Period)	Sampling Frequency and Dates
3274A	Lake Melva			Added monitoring		At least five independent sampling events, with at least three seasons represented
3275	L-35A Borrow			Added monitoring		At least five independent sampling events, with at least three seasons represented
3277A	South New River Canal			Added monitoring		At least five independent sampling events, with at least three seasons represented
3277B	E. Holloway Canal		Copper	Added monitoring	19 Cu obs from 1998 -3/31/05	
3277B	E. Holloway Canal	BOD	BOD	Added monitoring	20 paired DO, BOD, TN, TP and Chlorophyll <i>a</i> obs from 1998 -03/31/05	At least five independent sampling events, with at least three seasons represented
3277B	E. Holloway Canal	DO	DO	Added monitoring	20 paired DO, BOD, TN, TP and Chlorophyll <i>a</i> obs from 1998 -03/31/05	At least five independent sampling events, with at least three seasons represented
3277B	E. Holloway Canal	Fecal Coliforms	Fecal Coliforms	Added monitoring		At least five independent sampling events, with at least three seasons represented
3277B	E. Holloway Canal	Total Coliforms	Total Coliforms	Added monitoring		At least five independent sampling events, with at least three seasons represented

Table 5.1 (continued)

WBID	Water Segment Name	Verify Potential Impairment (Parameters Exceeding IWR Planning List Criteria and/or on the 1998 303[d] list)	Confirm Impairment (Parameters Exceeding IWR Verified List Evaluation Criteria)	Monitoring and Data Evaluation Objectives To Address Planning List Waterbody Segments		
				Current Proposed Action	Additional Data Needs (Obs./ Time Period)	Sampling Frequency and Dates
3277B	E. Holloway Canal	Nutrients	Nutrients	Added monitoring		At least five independent sampling events, with at least three seasons represented
3277C	C-42/West Holloway Canal	TSS	TSS	Added monitoring		At least five independent sampling events, with at least three seasons represented
3277D	North New River Canal East			Added monitoring		At least five independent sampling events, with at least three seasons represented
3277E	Dania Cutoff Canal			Added monitoring		At least five independent sampling events, with at least three seasons represented
3277Y	Tarpon River			Added monitoring		At least five independent sampling events, with at least three seasons represented
3279A	NF Snake Creek Canal			Added monitoring		At least five independent sampling events, with at least three seasons represented
3280	North New River Canal West			Added monitoring		At least five independent sampling events, with at least three seasons represented
3281	C-11 East			Added monitoring		At least five independent sampling events, with at least three seasons represented
3270X	Margate Lakes	Total Coliforms		Added monitoring	11 Total Coli-forms obs from 1998–3/31/05	At least five independent sampling events, with at least three seasons represented
3277X	Playland Isles Lakes			Added monitoring		At least five independent sampling events, with at least three seasons represented
3283	Snake Creek Canal East			Added monitoring		At least five independent sampling events, with at least three seasons represented

Table 5.1 (continued)

WBID	Water Segment Name	Verify Potential Impairment (Parameters Exceeding IWR Planning List Criteria and/or on the 1998 303[d] list)	Confirm Impairment (Parameters Exceeding IWR Verified List Evaluation Criteria)	Monitoring and Data Evaluation Objectives To Address Planning List Waterbody Segments		
				Current Proposed Action	Additional Data Needs (Obs./ Time Period)	Sampling Frequency and Dates
3284	Snake Creek Canal West		DO	Added monitoring		At least five independent sampling events, with at least three seasons represented
3285	C-8/Biscayne Canal	Fish	Mercury in Fish	Need to confirm 7.5 year age of data		
3287	C-7/Little River	Nutrients	Nutrients	Added monitoring	10 paired Chlorophyll <i>a</i> , TN, and TP obs in 1998 –12/31/04, with at least one Chlorophyll <i>a</i> obs in each season of the a calendar year	
3288A	Wagner Creek	Nutrients	Nutrients	Added monitoring	11 paired Chlorophyll <i>a</i> , TN, and TP obs in 1998 –12/31/04, with at least one Chlorophyll <i>a</i> obs in each season of the a calendar year	
3291	DA-1	Nutrients	Nutrients	Added monitoring	12 paired Chlorophyll <i>a</i> , TN, and TP obs in 1998 –12/31/04, with at least one Chlorophyll <i>a</i> obs in each season of the a calendar year	
3292A	Coral Gables Canal East			Added monitoring		At least five independent sampling events, with at least three seasons represented

Table 5.1 (continued)

WBID	Water Segment Name	Verify Potential Impairment (Parameters Exceeding IWR Planning List Criteria and/or on the 1998 303[d] list)	Confirm Impairment (Parameters Exceeding IWR Verified List Evaluation Criteria)	Monitoring and Data Evaluation Objectives To Address Planning List Waterbody Segments		
				Current Proposed Action	Additional Data Needs (Obs./ Time Period)	Sampling Frequency and Dates
3293	C-2/Snapper Creek			Added monitoring		At least five independent sampling events, with at least three seasons represented
3293A	Hammock Lake West		DO	Added monitoring		At least five independent sampling events, with at least three seasons represented
3294	DA-2	TSI		Added monitoring	10 paired Chlorophyll <i>a</i> , TN, color and TP obs from 1998 –12/31/04, with at least one Chlorophyll <i>a</i> obs in each season of a calendar year	
3296	DA-3			Added monitoring		At least five independent sampling events, with at least three seasons represented
6001A	Matheson Hammock			Added monitoring		At least five independent sampling events, with at least three seasons represented
3295	C-100		Mercury in Fish	Need to confirm 7.5 year age of data		
3298C	Black Point Marina		DO	Added monitoring	7 paired DO, BOD, TN, TP and Chlorophyll <i>a</i> obs from 1998 –03/31/05	
3299	C-111			Added monitoring		At least five independent sampling events, with at least three seasons represented
3286D	C-5/Comfort Canal			Added monitoring		At least five independent sampling events, with at least three seasons represented

Table 5.1 (continued)

WBID	Water Segment Name	Verify Potential Impairment (Parameters Exceeding IWR Planning List Criteria and/or on the 1998 303[d] list)	Confirm Impairment (Parameters Exceeding IWR Verified List Evaluation Criteria)	Monitoring and Data Evaluation Objectives To Address Planning List Waterbody Segments		
				Current Proposed Action	Additional Data Needs (Obs./ Time Period)	Sampling Frequency and Dates
3301	C-111			Added monitoring		At least five independent sampling events, with at least three seasons represented
3303	C-111 Canal			Added monitoring		At least five independent sampling events, with at least three seasons represented
3307	Model Land	Fish	Mercury in Fish	Need to confirm 7.5 year age of data		
3226GB	George English Park			Added monitoring		At least five independent sampling events, with at least three seasons represented
3226H1	North Dade ICWW		Mercury in Fish	Need to confirm 7.5 year age of data		
3226H4	Key Biscayne	Cu		Added monitoring	2 paired Cu and hardness obs from 1998 –3/31/05	At least five independent sampling events, with at least three seasons represented
3226HB	Oleta State Park			Added monitoring		At least five independent sampling events, with at least three seasons represented
6001B	Hobe Beach		Mercury in Fish	Need to confirm 7.5 year age of data		
8089	Biscayne Bay Ocean 1		Mercury in Fish	Need to confirm 7.5 year age of data		
8090	Biscayne Bay Ocean 2		Mercury in Fish	Need to confirm 7.5 year age of data		
8091	Biscayne Bay Ocean 3		Mercury in Fish	Need to confirm 7.5 year age of data		
8091A	Cape Florida Park		Mercury in Fish	Need to confirm 7.5 year age of data		
8091B	Key Biscayne Beach		Mercury in Fish	Need to confirm 7.5 year age of data		

Table 5.1 (continued)

WBID	Water Segment Name	Verify Potential Impairment (Parameters Exceeding IWR Planning List Criteria and/or on the 1998 303(d) list)	Confirm Impairment (Parameters Exceeding IWR Verified List Evaluation Criteria)	Monitoring and Data Evaluation Objectives To Address Planning List Waterbody Segments		
				Current Proposed Action	Additional Data Needs (Obs./ Time Period)	Sampling Frequency and Dates
8091C	Crandon Park–Key Biscayne					
8091D	Virginia Beach		Mercury in Fish	Need to confirm 7.5 year age of data		
8092	Miami-Dade County Ocean 1		Mercury in Fish	Need to confirm 7.5 year age of data		
8092A	South Beach Park		Mercury in Fish	Need to confirm 7.5 year age of data		
8092B	Collins Park–21st St		Mercury in Fish	Need to confirm 7.5 year age of data		
8092C	53rd St–Miami Beach		Mercury in Fish	Need to confirm 7.5 year age of data		
8092D	North Shore Ocean Terrace		Mercury in Fish	Need to confirm 7.5 year age of data		
8093	Miami-Dade County Ocean 2		Mercury in Fish	Need to confirm 7.5 year age of data		
8093A	Surfside Beach –93rd St		Mercury in Fish	Need to confirm 7.5 year age of data		
8093B	Haulover Beach		Mercury in Fish	Need to confirm 7.5 year age of data		
8093C	Gilbert Sampson Park–163rd St		Mercury in Fish	Need to confirm 7.5 year age of data		
8093D	Golden Beach		Mercury in Fish	Need to confirm 7.5 year age of data		
8093E	Hallandale Beach Blvd		Mercury in Fish	Need to confirm 7.5 year age of data		
8094	Miami-Dade County Ocean 3		Mercury in Fish	Need to confirm 7.5 year age of data		
8094A	Van Buren St		Mercury in Fish	Need to confirm 7.5 year age of data		

Table 5.1 (continued)

WBID	Water Segment Name	Verify Potential Impairment (Parameters Exceeding IWR Planning List Criteria and/or on the 1998 303[d] list)	Confirm Impairment (Parameters Exceeding IWR Verified List Evaluation Criteria)	Monitoring and Data Evaluation Objectives To Address Planning List Waterbody Segments		
				Current Proposed Action	Additional Data Needs (Obs./ Time Period)	Sampling Frequency and Dates
8094B	Harrison Street		Mercury in Fish	Need to confirm 7.5 year age of data		
8094C	Minnesota Street					
8094D	North Beach Park Intracoastal		Mercury in Fish	Need to confirm 7.5 year age of data		
8094E	John Lloyd Park		Mercury in Fish	Need to confirm 7.5 year age of data		
8094F	Bahia Mar		Mercury in Fish	Need to confirm 7.5 year age of data		
8095	Miami-Dade County Ocean 4		Mercury in Fish	Need to confirm 7.5 year age of data		
8095A	Birch State Park		Mercury in Fish	Need to confirm 7.5 year age of data		
8095B	Oakland Park Blvd		Mercury in Fish	Need to confirm 7.5 year age of data		
8095C	Commercial Blvd Pier		Mercury in Fish	Need to confirm 7.5 year age of data		
8095D	Pompano Beach Pier		Mercury in Fish	Need to confirm 7.5 year age of data		
8089	Biscayne Bay Ocean 1		Mercury in Fish	Need to confirm 7.5 year age of data		
8090	Biscayne Bay Ocean 2		Mercury in Fish	Need to confirm 7.5 year age of data		

Notes:

- BOD = Biological oxygen demand
- DO = Dissolved oxygen
- Cu = Copper
- TN = Total nitrogen
- TP = Total phosphorus
- TSI = Trophic state index

Phase 2 Assessment: Data Collection and Database Management Leading to the Development of the 303(d) List of Impaired Waters

The Department has been working to update the database that will be used in the Phase 2 assessment, collecting its own data as well as working with the other key data providers to obtain the most current and comprehensive water quality data. The data to be used in evaluating waterbodies to be included on the Verified List include the following:

- Existing data in the database that were not collected during the Planning List period of record,
- Existing data that had not been imported into the IWR Database at the time of the Planning List evaluation, and
- Monitoring data that had not been collected or reported.

The database now includes monitoring data collected before and after the Planning List period of record that were not evaluated for the Planning List. The 10-year period of record for the data used to produce the Planning List for the Biscayne Bay–Southeast Coast Basins extends from January 1, 1993, to December 31, 2002. The 7.5-year period of record for the Verified List evaluation, from January 1, 1998, to June 30, 2005, will capture more recent data.

The IWR Database contains data that were uploaded since the Planning List evaluation was conducted. Over the past year, the Department has provided support to organizations that are interested in uploading their water quality data to the national **ST**orage and **RE**trieval (STORET) Database. Data uploaded since the Planning List evaluation will be included in the database.

A significant number of data records produced by the South Florida Water Management District that were not available for the Planning List evaluation are anticipated to be available via STORET and will be included in the Verified List evaluation. Additional data from other providers may also be included in the next download from STORET.

Based on preliminary data reviewed for the production of this Status Report, the Department developed a plan to address potential data gaps. The Water Quality Section of the Department's Southeast District began a strategic monitoring program in January 2004 to address TMDL Program data needs. The focus of this program is to collect additional data to verify conditions in many of the potentially impaired waterbody segments.





Verified List Development and Public Comment

The Verified List of impaired waters for the Biscayne Bay–Southeast Coast Basins will be produced by the Department in the early summer of 2005, and will be adopted by the Secretary of the Department and submitted to the EPA later in the year. The tentative submittal date to the EPA for the adopted Verified List is October 1, 2005.

Prior to the Secretary’s action, the Department will distribute the draft Verified List to the public. As part of the review process, public workshops will be advertised and held in each basin to help explain the process for developing the Verified List, exchange information, and encourage public involvement.

If additional information or data is provided during the public comment period or before, the Department will consider it before submitting the proposed list to the Secretary and EPA.

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Appendix A: Legislative and Regulatory Background on the Watershed Management Approach and the Implementation of TMDLs

Federal and State Legislation on Surface Water Quality and TMDLs

Clean Water Act

Congress enacted the Clean Water Act in 1972 with the goal of restoring and maintaining the “chemical, physical, and biological integrity of the nation’s waters” (33 U.S.C. § 1251[a]). The ultimate goal of the act is to eliminate the “discharge of [all] pollutants into navigable waters” (33 U.S.C. § 1251[a][1]).

Section 305(b) of the Clean Water Act requires states to report biennially to the EPA on their water quality. The 305(b) report provides information on the physical, chemical, biological, and cultural features of each river basin in Florida. This initial assessment provides a common factual basis for identifying information sources and major issues, and for determining the future changes, strategies, and actions needed to preserve, protect, and/or restore water quality. Understanding the physical framework of each basin allows the development of a science-based methodology for assessing water quality and an accurate picture of the waters that are most impaired or vulnerable to contamination.

Section 303(d) of the Clean Water Act requires states to submit to the EPA lists of surface waters that do not meet applicable water quality standards and establish total maximum daily loads (TMDLs) for each of these waters on a schedule. A pollution limit is then allocated to each pollutant source in an individual river basin.

A TMDL represents the maximum amount of a given pollutant that a waterbody can assimilate and meet all of its designated uses (see **Noteworthy** on Florida’s surface water quality classifications for a listing of these classifications). A waterbody that does not meet its designated use is defined as *impaired*.

NOTEWORTHY: FLORIDA’S SURFACE WATER QUALITY CLASSIFICATIONS

Florida’s water quality standards program, the foundation of the state’s program of water quality management, designates the “present and future most beneficial uses” of the waters of the state (Subsection 403.061[10], F.S.). Water quality criteria, expressed as numeric or narrative limits for specific parameters, describe the water quality necessary to maintain these uses for surface water and ground water. Florida’s surface water is protected for five designated use classifications, as follows:

- Class I Potable water supplies*
- Class II Shellfish propagation or harvesting*
- Class III Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife*
- Class IV Agricultural water supplies*
- Class V Navigation, utility, and industrial use (there are no state waters currently in this class)*

Florida Watershed Restoration Act

In 1998, the EPA settled a lawsuit with the environmental group Earthjustice over Florida's TMDL Program. The Consent Decree resulting from the lawsuit requires all TMDLs on the state's 1998 Section 303(d) list of impaired waters to be developed in thirteen years. If the state fails to develop the TMDLs, the EPA is required to do so.

In response to concerns about the TMDL lawsuit and in recognition of the important role that TMDLs play in restoring state waters, the 1999 Florida legislature enacted the Florida Watershed Restoration Act (Chapter 99-223, Laws of Florida). The act clarified the Department's statutory authority to establish TMDLs, required the Department to develop a methodology for identifying impaired waters, specified that the Department could develop TMDLs only for waters on a future state list of impaired waters developed using this new methodology, and directed the Department to establish an Allocation Technical Advisory Committee to address the allocation process for TMDLs. The act also declared Lake Okeechobee impaired and, as required under the TMDL Consent Decree, allowed the state to develop a TMDL for the lake (see **Noteworthy** for a description of the legislation's major provisions).

NOTEWORTHY: THE FLORIDA WATERSHED RESTORATION ACT

- *The Florida Watershed Restoration Act contains the following major provisions:*
- *Establishes that the 303(d) list submitted to the EPA in 1998 is for planning purposes only.*
- *Requires the Department to adopt 303(d) listing criteria (that is, the methodology used to define impaired waters) by rule.*
- *Requires the Department to verify impairment and then establish a Verified List for each basin. The Department must also evaluate whether proposed pollution control programs are sufficient to meet water quality standards, list the specific pollutant(s) and concentration(s) causing impairment, and adopt the basin-specific 303(d) list by Secretarial Order.*
- *Requires the Department's Secretary to adopt TMDL allocations by rule. The legislation requires the Department to establish "reasonable and equitable" allocations of TMDLs, but does not mandate how allocations will be made among individual sources.*
- *Requires that TMDL allocations consider existing treatment levels and management practices; the differing impacts that pollutant sources may have; the availability of treatment technologies, best management practices (BMPs), or other pollutant reduction measures; the feasibility, costs, and benefits of achieving the allocation; reasonable time frames for implementation; the potential applicability of moderating provisions; and the extent that nonattainment is caused by pollutants from outside Florida, discharges that have ceased, or alteration to a waterbody.*
- *Required a report to the legislature by February 2001 addressing the allocation process.*
- *Authorizes the Department to develop basin plans to implement TMDLs, coordinating with the water management districts, the Florida Department of Agriculture and Consumer Services (DACs), the Soil and Water Conservation Districts, regulated parties, and environmental groups in assessing waterbodies for impairment, collecting data for TMDLs, developing TMDLs, and conducting at least one public meeting in the watershed. Implementation is voluntary if not covered by regulatory programs.*

- *Authorizes the Department and DACS to develop interim measures and BMPs to address nonpoint sources. While BMPs would be adopted by rule, they will be voluntary if not covered by regulatory programs. If they are adopted by rule and the Department verifies their effectiveness, then implementation will provide a presumption of compliance with water quality standards.*
- *Directs the Department to document the effectiveness of the combined regulatory/voluntary approach and report to the legislature by January 1, 2005. The report will include participation rates and recommendations for statutory changes.*

Determining Impairment Based on the State’s Impaired Surface Waters Rule

Section 303(d) of the federal Clean Water Act and the Florida Watershed Restoration Act describe impaired waters as those waterbodies or waterbody segments that do not meet applicable water quality standards. “Impairment” is a broad term that includes designated uses, water quality criteria, the Florida antidegradation policy, and moderating provisions (see **Noteworthy** for explanations of these terms).

The state’s Identification of Impaired Surface Waters Rule (Rule 62-303, F.A.C.) was developed in cooperation with a Technical Advisory Committee and adopted by the Florida Environmental Regulation Commission on April 26, 2001. It provides a science-based methodology for evaluating water quality data in order to identify impaired waters, and it establishes specific criteria for impairment based on chemical parameters, the interpretation of narrative nutrient criteria, biological impairment, fish consumption advisories, and ecological impairment. The complete text of the rule is available at <http://www.dep.state.fl.us/water/tmdl/docs/AmendedIWR.pdf>.

The Impaired Surface Waters Rule also establishes thresholds for data sufficiency and data quality, including the minimum sample size required and the number of exceedances of the applicable water quality standard for a given sample size that identify a waterbody as impaired. The number of exceedances is based on a statistical approach designed to provide greater confidence that the outcome of the water quality assessment is correct. Waters that are identified as impaired through the Impaired Surface Waters Rule are prioritized for TMDL development and implementation.

NOTEWORTHY: EXPLANATION OF TERMS

- **Designated uses**, discussed in an earlier sidebar, comprise the five classifications applied to each of the state’s surface waterbodies.
- **Water quality criteria** comprise numeric or narrative limits of pollutants.
- **The Florida Antidegradation Policy** (Sections 62-302.300 and 62-4.242, F.A.C.) recognizes that pollution that causes or contributes to new violations of water quality standards or to the continuation of existing violations is harmful to the waters of the state. Under this policy, the permitting of new or previously unpermitted existing discharges is prohibited where the discharge is expected to reduce the quality of a receiving water below the **classification** established for it. Any lowering of water quality caused by a new or expanded discharge to surface waters must be in the public interest (that is, the benefits of the discharge to public health, safety, and welfare must outweigh any adverse impacts on fish and wildlife or

recreation). Further, the permittee must demonstrate that other disposal alternatives (for example, reuse) or pollution prevention are not economically and technologically reasonable alternatives to the surface water discharge.

- **Moderating provisions** (provided in Subsection 62-302.300[10] and Rules 62-4 and 62-6, F.A.C., and described in Sections 62-302.300, 62-4.244, 62-302.800, 62-4.243, F.A.C., and Sections 403.201 and 373.414, F.S.) include mixing zones, zones of discharge, site-specific alternative criteria, exemptions, and variances. These provisions are intended to moderate the **applicability** of water quality standards where it has been determined that, under certain special circumstances, the social, economic, and environmental costs of such **applicability** outweigh the benefits.

Determining impairment in individual waterbodies takes place in two phases. First, in each river basin the Department evaluates the existing water quality data, using the methodology prescribed in the Impaired Surface Waters Rule, to determine whether waters are potentially impaired. Waters found to be potentially impaired are included on a *Planning List* for further assessment under Subsections 403.067(2) and (3), F.S. As required by Subsection 403.067(2), F.S., the Planning List is not used to administer or implement any regulatory program. It is submitted to the EPA for informational purposes only.

The second step is to assess waters on the Planning List under Subsection 403.067(3), F.S., as part of the Department's watershed management approach (described in the following section). The Department carries out additional data gathering and strategic monitoring, focusing on these potentially impaired waters, and determines—using the methodology in Part III, Section 62-303.400, F.A.C.—if a waterbody is, in fact, impaired and if the impairment is caused by pollutant discharges.

An Assessment Report is produced containing the results of this updated evaluation and a *Verified List* of impaired waters. The criteria for the Verified List are more stringent than those for the Planning List. The Department is required to develop TMDLs for waters on the Verified List under Subsection 403.067(4), F.S. Furthermore, a watershed management plan (called a Basin Management Action Plan) to reduce the amount of pollutants that cause impairments must be produced and implemented.

The Verified List is adopted by Secretarial Order in accordance with the Florida Watershed Restoration Act. Once adopted, the list is submitted to the EPA for approval as the state's Section 303(d) list of impaired waters for the basin.

Implementing TMDLs

The Watershed Management Approach

The Department's statewide approach to water resource management, called the watershed management approach, is the framework for implementing TMDLs as required by the federal and state governments. The approach does not focus on individual causes of pollution. Instead, each basin is assessed as an entire functioning system, and aquatic resources are evaluated from a basinwide perspective that considers the cumulative effects of human activities. Water resources are managed on the basis of natural

boundaries, such as river basins, rather than political or regulatory boundaries. Federal, state, regional, tribal, and local governments identify watersheds not meeting clean water or other natural resource goals and work cooperatively to focus resources and implement effective strategies to restore water quality. Extensive public participation in the decision-making process is crucial.

The watershed management approach is not new, nor does it compete with or replace existing programs. Rather than relying on single solutions to water resource issues, it is intended to improve the health of surface water and ground water resources by strengthening coordination among such activities as monitoring, stormwater management, wastewater treatment, wetland restoration, land acquisition, and public involvement.

By promoting the management of entire natural systems and addressing the cumulative effects of human activities on a watershed basis, this approach is intended to protect and enhance the ecological structure, function, and integrity of Florida's watersheds. It provides a framework for setting priorities and focusing the Department's resources on protecting and restoring water quality, and aims to increase cooperation among state, regional, local, and federal interests. By emphasizing public involvement, the approach encourages stewardship by all Floridians to preserve water resources for future generations.

The watershed approach is intended to speed up projects by focusing funding and other resources on priority water quality problems, strengthening public support, establishing agreements, and funding multiagency projects. It avoids duplication by building on existing assessments and restoration activities and promotes cooperative monitoring programs. It encourages accountability for achieving water quality improvements through improved monitoring and the establishment of TMDLs.

The Watershed Management Cycle

As part of the Department's watershed management approach, TMDLs will be developed, and the corresponding pollutant loadings allocated, as part of a watershed management cycle that rotates through the state's fifty-two river basins over a nine-year period. The cycle's five phases are as follows:

Phase 1: Preliminary Watershed Evaluation. For each river basin, a **Basin Status Report** is developed, containing a *Planning List* of potentially impaired waters that may require the establishment of TMDLs. The report characterizes each basin's hydrologic, ecological, and socioeconomic setting as well as historical, current, and proposed watershed management issues and activities. It also contains a preliminary evaluation of major water quality parameters, water quality issues by planning unit, ecological resources, and basinwide pollutant loading trends related to land uses. At the end of Phase 1, a **Strategic Monitoring Plan** is developed.

Phase 2: Strategic Monitoring and Assessment. Additional data are collected through strategic monitoring and uploaded to STORET. The data are used to verify whether potentially impaired waters in each basin are impaired and to calibrate and verify

models for TMDL development. At the end of Phase 2, an **Assessment Report** is produced for each basin that contains a *Verified List* of impaired waters. The report also provides an updated and more thorough evaluation of water quality, associated biological resources, and current management plans. The Department will adopt the Verified List through a Secretarial Order and submit it to the EPA as the state’s Section 303(d) list of impaired waters.

Phase 3: Development and Adoption of TMDLs. TMDLs for priority impaired waters in the basin will be developed and adopted by rule. Because TMDLs cannot be developed for all listed waters during a single watershed management cycle due to fiscal and technical limitations, waterbodies will be prioritized using the criteria in the Identification of Impaired Surface Waters Rule (Rule 62-303, F.A.C.).

Phase 4: Development of a Basin Management Action Plan (B-MAP). A B-MAP will be developed for each basin to specify how pollutant loadings from point and nonpoint sources will be allocated and reduced in order to meet TMDL requirements. The plans will include regulatory and nonregulatory (i.e., voluntary) and structural and nonstructural strategies, and existing management plans will be used where feasible. The involvement and support of affected stakeholders in this phase will be especially critical.

Phase 5: Implementation of a Basin Management Action Plan. Implementation of the activities specified in the B-MAP will begin. This includes carrying out rule development as needed, securing funding, informing stakeholders and the public, and monitoring and evaluating the implementation of the plan.

To implement the watershed cycle, the state’s river basins have been divided into five groups within each of the Department’s six districts statewide, and each district will assess one basin each year. **Table A.1** shows the basin groups for implementing the cycle in the Department’s districts, and **Figure A.1** shows these groups and the rotating cycle in the districts. **Table A.2**, which lists the basin rotation schedule for TMDL development and implementation, shows that it will take nine years to complete one full cycle of the state.

The watershed management cycle is an iterative, or repeated, process. One of its key components is that the effectiveness of management activities (TMDL implementation) will be monitored in successive cycles. Monitoring conducted in Phase 2 of subsequent cycles will be targeted at evaluating whether water quality objectives are being met and whether individual waters are no longer impaired. The Department also will track the implementation of scheduled restoration activities, whether required or voluntary, to ensure continued progress towards meeting the TMDLs.

Table A.1: Basin Groups for Implementing the Watershed Management Cycle, by Department District Office

District	Group 1 Basins	Group 2 Basins	Group 3 Basins	Group 4 Basins	Group 5 Basins
Northwest	Ochlockonee—St. Marks Rivers	Apalachicola—Chipola Rivers	Choctawhatchee River and Bay and St. Andrews Bay	Pensacola Bay	Perdido River and Bay
Northeast	Suwannee River	Lower St. Johns River	Upper St. Johns River	St. Marys—Nassau Rivers	Northeast Coast Lagoons
Central	Ocklawaha River	Middle St. Johns River		Kissimmee River	Indian River Lagoon
Southwest	Tampa Bay	Tampa Bay Tributaries	Sarasota Bay and Peace—Myakka Rivers	Withlacoochee River	Springs Coast
South	Everglades West Coast	Charlotte Harbor	Caloosahatchee River	Fisheating Creek	Florida Keys
Southeast	Lake Okeechobee	St.Lucie—Loxahatchee Rivers	Lake Worth Lagoon/Palm Beach Coast	Southeast Urban Coast	Everglades

Table A.2: Basin Rotation Schedule for TMDL Development and Implementation

Phased Approach: 9 years to complete one full cycle of state

Year/Group	2000	2001	2002	2003	2004	2005	2006	2007	2008
Group 1	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 1	Phase 2	Phase 3	Phase 4
Group 2		Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 1	Phase 2	Phase 3
Group 3			Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 1	Phase 2
Group 4				Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 1
Group 5					Phase 1	Phase 2	Phase 3	Phase 4	Phase 5

1 2 3 4 5 6 7 8 9

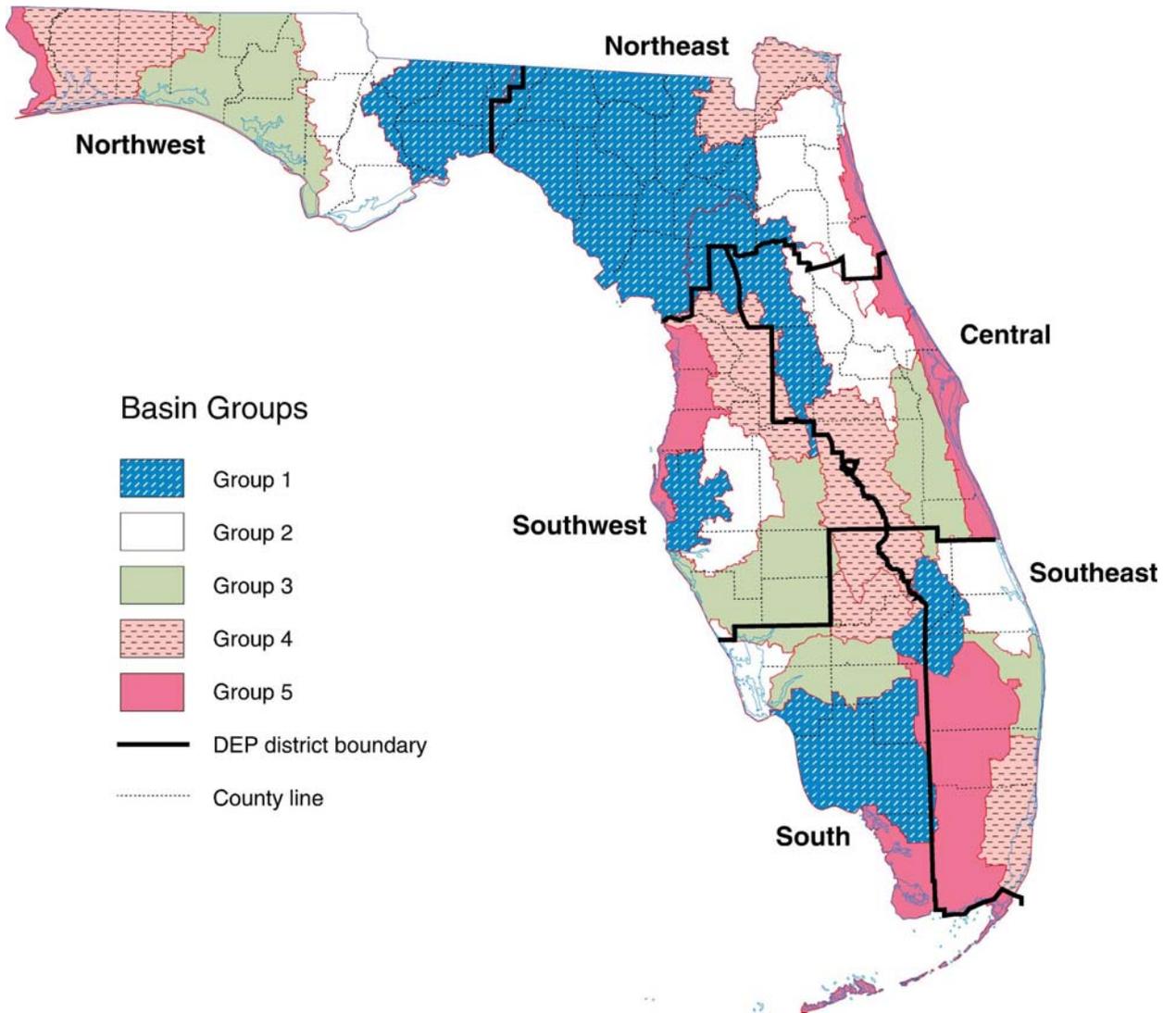


Figure A.1: Five-Year Rotating Basin Cycle in the Department's Six Districts

Pollutants can enter a waterbody through point source discharges (generally from a specific facility) or nonpoint discharges (e.g., stormwater runoff, septic tanks). Government agencies, businesses, organizations, and individuals who contribute to these discharges will be asked to share the responsibility of attaining TMDLs through load allocations (the amount of a specified pollutant allotted for discharge) that are based on an established TMDL. **Table A.3** summarizes these potentially affected stakeholders, and the actions they may be asked to take to help achieve a TMDL.

Table A.3: Potentially Affected Stakeholders and Actions To Achieve TMDLs

Potentially Affected Stakeholders	Actions To Achieve TMDL
Municipal stormwater/wastewater programs	Reduce and treat urban stormwater runoff through stormwater retrofits, replacement of septic tanks
Commercial developers, homebuilders, individual homeowners	Improve development design and construction, enhance best management practices, replace septic tanks
Municipal and industrial wastewater treatment facilities, National Pollutant Discharge Elimination System (NPDES) permitted facilities	Reduce pollutant loadings from permitted discharges
Farming and silviculture operations	Reduce and treat runoff through best management practices
Federal, regional, state agencies; regional and local water quality coalitions	Carry out waterbody restoration projects

Permitting and Other Approaches

NPDES PERMITS

All point sources that discharge to surface waterbodies require a NPDES permit. These permits can be classified into two types: domestic or industrial wastewater discharge permits, and stormwater permits. NPDES-permitted point sources may be affected by the development and implementation of a TMDL. All NPDES permits include “reopener clauses” that allow the Department to incorporate new discharge limits when a TMDL is established. These new limitations may be incorporated into a permit when a TMDL is implemented or at the next permit renewal, depending on the timing of the permit renewal and workload. For NPDES municipal stormwater permits, the department intends to insert the following statement once a B-MAP is completed:

“The permittee shall undertake those activities specified in the (Name of Waterbody) Basin Management Action Plan in accordance with the approved schedule set forth in the B-MAP.”

DOMESTIC AND INDUSTRIAL WASTEWATER PERMITS

In addition to NPDES-permitted facilities, all of which discharge to surface waters, Florida also regulates domestic and industrial wastewater discharges to ground water via land application. Since ground water and surface water are so intimately linked in much of the state, reductions in loadings from these facilities may be needed to meet TMDL limitations for pollutants in surface waters. If such reductions are identified in the B-MAP, they would be implemented through modifications of the existing state permits.

FLORIDA STORMWATER/ENVIRONMENTAL RESOURCE PERMITS

With the implementation of the state’s stormwater treatment rule in 1982, Florida became the first state to require the treatment of stormwater from all new development. Today, except in the area served by the Northwest Florida Water Management District, new development projects receive an Environmental Resource Permit that combines stormwater flood protection, stormwater treatment, and wetland protection/mitigation into a single permit. These permits are designed to obtain 80 percent average annual load reduction of total suspended solids. This level of treatment may need to be increased, depending on the allocation of load reductions, especially for nutrients. For example, the St. Johns River Water Management District recently adopted basin-specific criteria for the Lake Apopka Basin that require the phosphorus loading from new development not to exceed predevelopment phosphorus loading.

LOCAL LAND DEVELOPMENT CODES

Since structural stormwater treatment practices can only achieve certain levels of load reductions, and because the hydrologic changes accompanying urban development often cause ecological impacts to aquatic systems, local land development codes that promote “low-impact development” are an important component of restoring impaired waters. Local codes may need to be reviewed to determine how to promote developments that minimize impervious surfaces (such as reduced street widths or the use of pervious pavements), promote the protection of vegetation, promote the protection and restoration of riparian buffers along streams and lakes, and adopt the principles of the Florida Yards and Neighborhoods Program in local landscaping codes.

BEST MANAGEMENT PRACTICES (BMPs)

Typically, BMPs refer to a practice or combination of practices that, based on sound science and best professional judgment, are determined to be the most effective and practicable means of reducing nonpoint source pollutant discharges and improving water quality. Both economic and technological considerations are included in the evaluation of what is practicable. BMPs may include structural controls (such as retention areas or detention ponds) or nonstructural controls (such as street sweeping or public education). Many BMPs have been developed for urban stormwater to reduce pollutant loadings and peak flows. These BMPs accommodate site-specific conditions, including soil type, slope, depth to ground water, and the designation of receiving waters.

The passage of the Florida Watershed Restoration Act increased the emphasis on implementing BMPs to reduce nonpoint source pollutant discharges from agricultural operations. Recognizing that the development and adoption of BMPs might take several years, the legislature authorized the use of Interim Measures (IMs) during the BMP development process for agricultural operations. In essence, IMs are a set of logical conservation practices designed to reduce agricultural nonpoint pollutant discharges based on current knowledge and best professional judgment. These practices will evolve into more formal BMPs as better scientific data on their effectiveness is obtained.

Once the Florida Department of Agriculture and Consumer Services adopts BMPs, the Department is charged with verifying their effectiveness in reducing agricultural nonpoint sources. Once verified, agricultural operations that have implemented BMPs will receive a waiver of liability and presumption of compliance similar to that granted to a developer who obtains an Environmental Resource Permit.

OTHER STRATEGIES

The success of implementing nonpoint source TMDL load allocations will require variety, creativity, stakeholder commitment to watershed management, and personal stewardship. In addition to BMPs, other possible strategies for meeting TMDLs, restoring water quality, and preventing the further degradation of Florida's watersheds include cost sharing, waste minimization, pollution prevention, new approaches to land use design and development, and pollutant trading. The Department has assembled a Technical Advisory Committee to help develop a pollutant trading rule, which must be reviewed by the legislature prior to its adoption. The Department will also continue to work with local stakeholders on TMDL allocation issues and implementation plans.

Sources of Information

For additional information on the Department's Watershed Management Program and TMDLs, please contact the following basin coordinators:

- Southwest Florida and Lake Okeechobee, Pat Fricano (850) 245-8559
- Southeast Florida Basin, Kevin O'Donnell (850) 245-7607
- Northwest and Central Florida, Mary Paulic (850) 245-8560
- Northeast Florida and Suwannee Basin, John Abendroth (850) 245-8557
- West Central Florida and Tampa Bay Region, Tom Singleton (850) 245-8561

For information on establishing and implementing TMDLs, contact Jan Mandrup-Poulsen at (850) 245-8448. Additional information is available on the Department's Web site at www.dep.state.fl.us/water/watersheds/index.htm.

Appendix B: Methodology for Determining Impairment Based on the Impaired Surface Waters Rule

The Impaired Surface Waters Rule

To identify impaired waters in each of the state’s river basins, the Department evaluates water quality data using the science-based methodology in the Identification of Impaired Surface Waters Rule (Rule 62-303, F.A.C.). The rule establishes specific criteria and thresholds for impairment, in addition to data sufficiency and data quality requirements. The methodology described in the rule is based on a statistical approach designed to provide greater confidence that the outcome of the water quality assessment is correct. The complete text of the Impaired Surface Waters Rule is available at <http://www.dep.state.fl.us/water/tmdl/docs/AmendedIWR.pdf>

As part of the watershed management approach, for each river basin in the state the Department will follow the methodology in Section 62-303.300, F.A.C., to develop a Planning List of potentially impaired waters to be assessed under Subsections 403.067(2) and (3), F.S. The methodology for developing the Planning List includes an evaluation of aquatic life use support, primary contact and recreational use support, fish and shellfish consumption use support, drinking water use support, and protection of human health. Data older than ten years cannot be used to evaluate water quality criteria exceedances for the Planning List. As required by Subsection 403.067(2), F.S., the Planning List will not be used to administer or implement any regulatory program, and is submitted to the EPA for informational purposes only.

After further assessment, using the methodology in Part III, Section 62-303.400, F.A.C., the Department will determine if waters on the Planning List are, in fact, impaired and if the impairment is caused by pollutant discharges. These waters are placed on a Verified List. The criteria for the Verified List are more stringent than those for the Planning List. Data older than five years should not be used to verify impairment. The Verified List will be adopted by Secretarial Order and forwarded to the EPA for approval as Florida’s Section 303(d) list of impaired waters. The Department will develop TMDLs for these waters under Subsection 403.067(4), F.S.

Attainment of Designated Use(s)

While the designated uses of a given waterbody are established using the surface water quality classification system described previously, it is important to note that the EPA uses slightly different terminology in its description of designated uses. Because the Department is required to provide use attainment status for both the state’s 305(b) report and the state’s 303(d) list of impaired waters, the Department uses EPA terminology when assessing waters for use attainment. The water quality evaluations and decision processes for listing impaired waters that are defined in Florida’s Impaired Surface Waters Rule are based on the following designated use attainment categories:

Aquatic Life Use Support-Based Attainment
Primary Contact and Recreation Attainment
Fish and Shellfish Consumption Attainment
Drinking Water Use Attainment
Protection of Human Health

Table B.1 summarizes the designated uses assigned to Florida’s various surface water classifications.

Table B.1: Designated Use Attainment Categories for Surface Waters in Florida

Designated Use Attainment Category Used in Impaired Surface Waters Rule Evaluation	Applicable Florida Surface Water Classification
Aquatic Life Use Support-Based Attainment	Class I, II, and III
Primary Contact and Recreation Attainment	Class I, II, and III
Fish and Shellfish Consumption Attainment	Class II
Drinking Water Use Attainment	Class I
Protection of Human Health	Class I, II, and III

Sources of Data

The Department’s assessment of water quality for each basin statewide includes an analysis of quantitative data from a variety of sources, many of which are readily available to the public. These sources include the EPA’s Legacy and modernized **ST**orage and **RE**trieval (STORET) databases, the U.S. Geological Survey (USGS), the Department, the Florida Department of Health (DOH), the water management districts, local governments, and volunteer monitoring groups.

Historically, the Department carried out statewide water quality assessments using data available in the EPA’s Legacy STORET Database; STORET makes up approximately 60 percent of the statewide data used in the Impaired Surface Waters Rule assessment. The Legacy STORET Database is a repository of data collected and uploaded by numerous organizations through 1999. The Legacy STORET Database can be accessed at <http://www.dep.state.fl.us/water/storet/index.htm>

In 2000, the EPA created a modernized version of STORET that included new features designed to address data quality assurance/quality control concerns (see the new STORET Web site at www.epa.gov/storet/). However, because of software difficulties associated with batch uploading of data to the modernized STORET, the data being uploaded to the national repository decreased dramatically, and lingering problems have temporarily reduced STORET’s importance as a statewide data source. It houses only about 5 percent of the statewide Impaired Surface Waters Rule Database.

Approximately 35 percent of the data used in the assessment under the Impaired Surface Waters Rule was provided by individual organizations that for various reasons, such as time constraints or resource limitations, were not able to enter their data into the national database. The organizations providing the largest datasets include the South Florida, Southwest Florida, and St. Johns River Water Management Districts; the USGS; and the University of Florida LakeWatch volunteer monitoring group. Several of these

databases are readily available to the public via the Internet: the South Florida Water Management District at <http://www.envirobase.usgs.gov/>, the USGS at <http://water.usgs.gov/>, and LakeWatch at <http://lakewatch.ifas.ufl.edu/>.

The Department created the Impaired Surface Waters Rule Database in 2002 to evaluate data simultaneously in accordance with the Impaired Surface Waters Rule methodology for every basin in the state, based on the appropriate data “window.” For the Verified List assessment, the window is 7.5 years (for the Impaired Surface Waters Rule Database), and the Planning List assessment window is 10 years. **Table B.2** shows the periods of record for the Verified and Planning Lists for the five basin groups.

The evaluation of water quality in the state’s basins also includes some qualitative information. These sources are described in the Basin Status Reports and Assessment Reports for each basin.

Table B.2: Data Used in Developing the Planning and Verified Lists, First Basin Rotation Cycle

Basin Group	Reporting	Period of Data Record Used in Impaired Surface Waters Rule Evaluation
Group 1	Planning List	January 1, 1989 – December 31, 1998
	Verified List	January 1, 1995 – June 30, 2002
Group 2	Planning List	January 1, 1991 – December 31, 2000
	Verified List	January 1, 1996 – June 30 2003
Group 3	Planning List	January 1, 1992 – December 31, 2001
	Verified List	January 1, 1997 – June 30, 2004
Group 4	Planning List	January 1, 1993 – December 31, 2002
	Verified List	January 1, 1998 – June 30, 2005
Group 5	Planning List	January 1, 1994 – December 31, 2003
	Verified List	January 1, 1999 – June 30, 2006

Notes: Typically, a 10-year data record is used for the development of the Planning Lists, and a 7-year record is used for the Verified Lists. If necessary, however, the data record for the Verified listing can be extended by up to 6 months to complete a monitoring period that will provide sufficient information to make a listing determination. This 6-month extension applies to the development of the 2002 Impaired Surface Waters Rule Database.

Methodology

To determine the status of surface water quality in individual river basins in Florida, three categories of data—chemistry data, biological data, and fish consumption advisories—were evaluated to determine potential impairments for the four designated use attainment categories discussed earlier: aquatic life, primary contact and recreation, fish and shellfish consumption, and drinking water use and protection of human health.

Aquatic Life Based Attainment

The Impaired Surface Waters Rule follows the principle of independent applicability. A waterbody is listed for potential impairment of aquatic life use support based on exceedances of any one of four types of water quality indicators (numeric water quality criteria, nutrient thresholds, biological thresholds, and toxicity data).

EXCEEDANCES OF NUMERIC WATER QUALITY CRITERIA

The chemistry data from STORET used in evaluating impairment were also used for preparing the state's 2000 305(b) report. Only ambient surface water quality stations were included in the assessment of impairment. Water quality information from point sources or wells was excluded. Monitoring stations were classified as one of five waterbody types—spring, stream, lake, estuary, or blackwater—based on criteria described in the latest 305(b) report. The assessments included the following parameters:

Metals	Arsenic, aluminum, cadmium, chromium VI, chromium III, copper, iron, lead, mercury, nickel, selenium, silver, thallium, and zinc
Nutrients	Chlorophyll <i>a</i> for streams and estuaries, and Trophic State Index (TSI) (chlorophyll <i>a</i> , total nitrogen, and total phosphorus) for lakes
Conventionals	Dissolved oxygen (DO), fecal coliforms, total coliforms, pH, un-ionized ammonia

The requirements for placing waters on the Planning List included a minimum of 10 temporally independent samples from the ten-year period of record shown in **Table B.2**, unless there were 3 exceedances of water quality or 1 exceedance of an acute toxicity criterion in a three-year period. The screening methodology for the Verified List requires at least 20 samples from the last five years preceding the Planning List assessment. For most parameters, an exceedance is recorded any time the measured value is higher than the applicable water quality criterion by any amount. However, for the DO criterion, which is expressed as a minimum numeric value, an "exceedance" is recorded whenever the measured value is lower than the applicable DO criterion.

To determine if a water should be placed on the Planning List for each parameter, the chemical data were analyzed using a computer program written to assess the data, based on criteria established in the Impaired Surface Waters Rule, with two exceptions. First, un-ionized ammonia data were not analyzed by the program, but rather with an Excel spreadsheet. Second, because the full complexity of the pH criterion could not be programmed, the incomplete listings for pH are not included. They will be further examined while additional data are collected during Phase 2 of the watershed management cycle. Data analysis and statistical summaries of WBIDs, waterbody types, and parameters obtained from the STORET Database were conducted using Access, SAS statistical software, and ArcView GIS applications.

The data for metals and conventional parameters were compared with the state surface water quality criteria in Section 62-302.530, F.A.C. (Identification of Impaired Surface Waters Rule). The rule contains a table of sample numbers versus exceedances. A waterbody was placed on the Planning List if there was at least 80 percent confidence that the actual criteria exceedance rate was greater than or equal to 10 percent. To be placed on the Verified List, at least a 90 percent confidence rate was required.

EXCEEDANCES OF NUTRIENT THRESHOLDS

The state currently has a narrative nutrient criterion instead of a numeric value for nutrient thresholds. The narrative criterion states, “In no case shall nutrient concentrations of a body of water be altered so as to cause an imbalance in natural populations of aquatic flora or fauna.” The Impaired Surface Waters Rule provides an interpretation of the narrative nutrient criterion. In general, the Trophic State Index (TSI) and the annual mean chlorophyll *a* values are the primary means for assessing whether a waterbody should be assessed further for nutrient impairment.

The rule also considers other information that might indicate an imbalance in flora or fauna due to nutrient enrichment, such as algal blooms, excessive macrophyte growth, a decrease in the distribution (either in density or aerial coverage) of seagrasses or other submerged aquatic vegetation, changes in algal species richness, and excessive diel oxygen swings.

Potential nutrient impairment was evaluated by calculating annual mean chlorophyll *a* values for estuaries and streams and the TSI for lakes. For lakes, the TSI was calculated using chlorophyll *a*, total phosphorus, and total nitrogen measurements. Direct evidence of imbalances of flora and fauna in waterbodies was also considered in the evaluation of nutrient impairments.

In estuarine areas, a water was considered nutrient enriched if the annual mean chlorophyll *a* values were greater than 11 micrograms per liter ($\mu\text{g/L}$) or if annual mean chlorophyll *a* values increased by more than 50 percent over historical values for at least two consecutive years. For streams, a water was considered nutrient enriched if the annual mean chlorophyll *a* values were greater than 20 $\mu\text{g/L}$ or if the annual mean increased by more than 50 percent over historical values for at least two consecutive years.

A lake with a mean color greater than 40 platinum cobalt units (PCUs) was considered nutrient enriched if the annual mean TSI exceeded 60. A lake with a mean color less than or equal to 40 PCUs was considered nutrient enriched if the annual mean TSI exceeded 40. In addition, a lake was considered nutrient enriched if there was an increase in TSI over the 1989 to 2000 period or if TSI measurements were 10 units higher than historical values.

EXCEEDANCES OF BIOLOGICAL THRESHOLDS

Bioassessments were carried out for streams, lakes, canals, and rivers using the Impaired Surface Waters Rule as guidance and following the Department’s standard operating procedures, which provide definitions and specific methods for the generation and analysis of bioassessment data. These are referenced in the individual bioassessment data tables contained in the Basin Status Reports. The purpose behind using a bioassessment methodology in surface water characterizations is that biological components of the environment manifest long-term water quality conditions and thus provide a better indication of a waterbody’s true health than discrete chemical or physical measurements alone. Similar to water quality criteria, bioassessment methods involve the identification of a biological reference condition, based on data from unimpaired or least impacted waters in a given region.

For the Planning and Verified List assessments, the reference condition data were used to establish expected scores, ranging from best to worst, for various measures of community structure and function, such as numbers or percentages of particular species or feeding groups. Data on community structure and function from waters of unknown quality in the same region as reference waters were compared with the expected scores of metrics to evaluate their biological integrity.

Metrics (e.g., number of taxa, percent Diptera, percent filter feeders) were used independently and as an aggregated group called an index. Indices have advantages over individual metrics in that they can integrate several related metrics into one score that reflects a wider range of biological variables. A number of bioassessment metrics and indices exist for assessing populations of plant and animal life, including fish, diatoms (e.g., microscopic algae and unicellular plankton), and macroinvertebrates (e.g., insects, crayfish, snails, and mussels).

Only macroinvertebrate data from ambient sites in state surface waters were used in the bioassessments analyzed for the Planning and Verified Lists. The data included sites designated as test and background sites for National Pollutant Discharge Elimination System (NPDES) fifth-year inspections, but excluded data from effluent outfalls from discharging facilities or data from monitoring sites not clearly established to collect ambient water quality data. Because site-specific habitat and physicochemical assessment information (e.g., percent suitable macroinvertebrate habitat, water velocities, extent of sand or silt smothering, and riparian [*Definition: Of, on, or relating to the banks of a natural course of water.*]) buffer zone widths) was not available at the time of reporting, it was not included. However, this information is instrumental in pinpointing the causes for failed bioassessment metrics and will be included in future reporting.

The data used to develop the Planning and Verified Lists were obtained from the Department's Biological Database (SBIO) and the EPA's STORET Water Quality Database, where it could be substantiated that the data were generated in compliance with the bioassessment standard operating procedures referenced in the Impaired Surface Waters Rule (Section 62-303.330, F.A.C.).

The data from these databases are used without regard to the randomness of sample site selection. For the purposes of the Basin Status Reports, the seasons are defined as follows: winter (1/1–3/31), spring (4/1–6/30), summer (7/1–9/30), and fall (10/1–12/31). Wet seasons are generally spring and summer, and dry seasons are fall and winter, although conditions can vary in the state as a whole.

LAKE CONDITION INDEX

The scoring of the individual metrics of the Lake Condition Index (LCI), except percent Diptera, was performed according to the following formula:

100(B/A) where A = the 95 percentile of the reference population and B = observed value

For percent Diptera, the following formula was used:

$100(100-B)/(100-A)$ where A = the 95 percentile of the reference population and B = observed value

An average LCI score was calculated by averaging the scores of the six metrics in the method: total number of taxa; total number of taxa belonging to the orders Ephemeroptera, Odonata, and Trichoptera (EOT taxa); percent EOT taxa; Shannon-Wiener Diversity Index score; Hulbert Index score; and percent Dipteran individuals. LCI calculations were only provided for clear lakes (≤ 20 platinum cobalt units [PCUs]). As macroinvertebrate-based indices have not been shown to assess colored lakes in Florida accurately (> 20 PCUs), they have been excluded from bioassessments. A poor or very poor rating based on the average score constituted a failed bioassessment, based on the Impaired Surface Waters Rule.

STREAM CONDITION INDEX

A total Stream Condition Index (SCI) score was calculated by adding the scores of the seven metrics in the method: total number of taxa; total number of taxa belonging to the orders Ephemeroptera, Plecoptera, and Trichoptera (EPT taxa); percent Chironomid taxa; percent dominant taxa; percent Diptera; percent filter feeders; and Florida Index. A poor or very poor rating based on the total score constituted a failed bioassessment, based on the Impaired Surface Waters Rule. The Basin Status Reports contain definitions and specific methods for the generation and analysis of bioassessment data.

BIORECON

To establish an impairment rating based on BioRecon data, three metrics were used: the Florida Index score, total number of taxa, and total number of EPT taxa. If all three metrics failed to meet thresholds, the water was deemed “impaired” based on the Impaired Surface Waters Rule.

BIOLOGICAL INTEGRITY STANDARD

Quantitative data, generated through the use of Hester-Dendy artificial substrate samplers, were used to calculate Shannon-Wiener Diversity Index scores for paired background and test sites, as specified in the Biological Integrity Standard, Subsection 62-302.530(11), F.A.C. One failure of the standard meant that a waterbody segment was listed as potentially impaired.

EVALUATION OF TOXICITY DATA

Although the Impaired Surface Waters Rule describes the use of toxicity data for the assessment of aquatic life-based attainment, no ambient toxicity data are available for assessment and this metric was not used.

Primary Contact and Recreation Attainment

For Class I, II, or III waters, a waterbody was potentially impaired if the following criteria were met:

- The waterbody segment did not meet the applicable water quality criteria for bacteriological quality,
- The waterbody segment included a bathing area that was closed by a local health department or county government for more than one week or more than once during a calendar year based on bacteriological data,
- The waterbody segment included a bathing area for which a local health department or county government issued closures, advisories, or warnings totaling twenty-one days or more during a calendar year based on bacteriological data, or
- The waterbody segment included a bathing area that was closed or had advisories or warnings for more than twelve weeks during a calendar year based on previous bacteriological data or on derived relationships between bacteria levels and rainfall or flow.

Fish and Shellfish Consumption Attainment

For Class I, II, or III waters, a waterbody was potentially impaired if it did not meet the applicable Class II water quality criteria for bacteriological quality, or if a fish consumption advisory had been issued. Fish consumption advisories were based on the Florida Department of Health's "limited consumption" or "no consumption" advisories for surface waters because of high levels of mercury in fish tissue. In addition, for Class II waters, waterbody segments that had been approved for shellfish harvesting but were downgraded to a more restrictive classification were listed as potentially impaired.

Drinking Water Attainment and Protection of Human Health

For Class I waters, a waterbody was potentially impaired if it did not meet the applicable Class I water quality criteria.

Appendix C: Bioassessment Methodology

Methodology

An increasingly accepted tool for evaluating the biological integrity of surface water is bioassessment. The premise behind using bioassessment methodology in surface water characterizations is that biological components of the environment manifest long-term water quality conditions and can presumably give a better indication of the true health of the waters involved than discrete chemical or physical measurements alone.

Similar to water quality criteria, bioassessment methods involve the identification of a biological reference condition, based on data from unimpaired or least impacted waters in a given region. The reference condition data are used to establish expected scores, ranging from best to worst, for various measures of community structure and function, such as numbers or percentages of particular species or feeding groups. Data on community structure and function from waters of unknown quality in the same region as reference waters are compared with the expected scores of metrics to evaluate their biological integrities. Metrics may be used independently or as an aggregated group called an index. Indices have advantages over individual metrics in that they can integrate several related metrics into one score that reflects a wider range of biological variables. A number of bioassessment metrics and indices exist for assessing populations of plant and animal life, including fish, diatoms, and macroinvertebrates.

Only macroinvertebrate data are included in the following bioassessments. Because site-specific habitat and physicochemical assessment information (e.g., percent suitable macroinvertebrate habitat, water velocities, extent of sand or silt smothering, and riparian buffer zone widths) was not available at the time of reporting, it is not included here. However, habitat and physicochemical assessment information is instrumental in pinpointing the causes for failed bioassessment metrics and should be included in future reporting.

Data used in this report were obtained from the Department's Biological Database (SBIO) and the EPA's STORET Water Quality Database, where it could be substantiated that such data were generated in compliance with the bioassessment standard operating procedures referenced in the Impaired Surface Waters Rule (Section 62-303.330, F.A.C.). Bioassessments are provided from streams, canals, and rivers, with data generated according to Department standard operating procedures FS-7420 and FS-7430 and analyzed according to the Stream Condition Index (SCI) for Florida (Barbour *et al.*, 1996; FDEP SOP #LT-7200) and/or Subsection 62-302.530(11), F.A.C. (Biological Integrity Standard). Bioassessments are also provided for clear lakes (≤ 20 platinum cobalt units) with data generated according to Department standard operating procedure FS-6460 and analyzed according to the Lake Condition Index (LCI) for Florida (Gerritsen *et al.*, 2000; FDEP SOP #LT-7300). Since macroinvertebrate-based indices have not been shown to assess colored lakes in Florida accurately (>20 platinum cobalt units), they have been excluded from the following bioassessments.

Only ambient data from state surface waters were used in the following bioassessments, excluding data from effluent outfalls from discharging facilities or data from monitoring sites not clearly established to collect ambient water quality data. Data

were used from the databases noted above without regard to the randomness of sample site selection. For the purposes of this report, the seasons are defined as follows: winter (1/1-3/31), spring (4/1-6/30), summer (7/1-9/30), and fall (10/1-12/31). Wet seasons are generally spring and summer and dry seasons are fall and winter, although conditions can vary within the state as a whole.

Metric Definitions

of Taxa—This metric is otherwise known as taxa richness. In this report, it indicates the total number of macroinvertebrate taxa found in a sample of stream or lake bottom, other in-water substrate such as fallen branches or roots, or artificial surface in the waterbody for invertebrate colonization. A taxon (singular) is a group of organisms with common traits and characteristics, such as dragonflies (taxon Odonata). As the environment is stressed, the number of taxa generally decreases.

of Chironomid Taxa—Chironomids are larval flies that are prevalent in many surface waters. This metric is also a measure of taxa richness.

of EPT or EOT Taxa—Particular organisms or groups of organisms in a given surface water habitat are more sensitive to changes in the environment than others, making them good indicators of environmental stress. Mayflies (Ephemeroptera), stoneflies (Plecoptera), caddisflies (Trichoptera), and dragonflies and damselflies (Odonata) are four such taxa.

% Diptera—Dipterans are larval flies, many of which are tolerant of poor water quality conditions. This metric represents the fraction of the total number of dipteran organisms in a sample. A large fraction indicates an invertebrate community that is predominantly tolerant of low water quality.

Florida Index—The Florida Index is a weighted measurement of the numbers of Class I and Class II macroinvertebrate species known in Florida. It assigns points to stream-dwelling macroinvertebrates based on their sensitivities to pollution. It is an index in itself, but the results can be incorporated into other indices as measurements of biological integrity.

% Filter Feeders—Filter-feeding organisms indicate the flow regime in a waterbody. The larger the fraction of the total community consisting of filter feeders, the more likely it is that the waterbody has a good flow regime.

% Dominant Taxon—In all waterbodies, the taxon that exists in greater number than all others is known as the dominant taxon. A high percentage of the dominant taxon in a sample indicates lower diversity and poorer water quality.

Shannon-Wiener Diversity Index—This is a measurement of macroinvertebrate community health, which is specified in Rule 62-302, F.A.C. It incorporates level of taxa richness (how many taxa are present) within the distribution of individuals among taxa present (how evenly they are distributed). Like the Florida Index, it is an index in itself. However, the result is often included in other indices of biological integrity. Low diversity scores are indicative of conditions where only a few species are present to the exclusion of other taxa.

Hulbert Index—This index is also a weighted measurement of the numbers of Class A and Class B species of macroinvertebrates known in Florida lakes. It is also an index in itself, but the result is included in the calculation of the LCI as a separate metric value.

References

Barbour, M.T., J. Gerrisen, and J.S. White. 1996. *Development of the Stream Condition Index (SCI) for Florida*. Prepared for the Florida Department of Environmental Protection. Owings Mills, Maryland: Tetra Tech, Inc.

Gerritsen, J., B. Jessup, E. Leppo, and J. White. 2000. *Development of Lake Condition Indexes (LCI) for Florida*. Owings Mills, Maryland: Tetra Tech, Inc.

***Appendix D: Permitted Discharge Facilities, Superfund Sites,
and Landfills in the Biscayne Bay–Southeast Coast Basin, by
Planning Unit***

Table D.1: Permitted Facilities with Discharges to Surface Water and Ground Water, by Planning Unit

Facility ID	Name	Facility Type	Status	NPDES	Design Capacity (millions of gallons per day)
Broward Planning Unit					
FL0041289	MARGATE,CITY OF WEST WWTP	DW	A	Y	8
FLA187291	IMAGINATION FARMS	IW	X	N	0
FLA040401	PLANTATION REGIONAL WWTP	DW	A	N	15
FL0001503	FPL LAUDERDALE PLANT	IW	A	Y	1.4
FLG110155	CONTINENTAL CONCRETE - PEMBROKE PINES PLANT	CBP	A	Y	0
FL0040398	COOPER CITY WEST WWTP	DW	A	Y	2.5
FLA013600	BROWARD DISPOSAL CORP	IW	N	N	0
FL0187020	W & D DAIRY	IW	X	Y	0
FLA042641	SUNRISE NO 3 WWTP (SAWGRASS)	DW	A	N	13
FLA013567	PLANTATION,CITY OF/CENTRAL DIST WTP	OTH	A	N	0
FL0038539	HOLLYWOOD (INDUSTRIAL WASTE) RO/MS CONCENTRATE	IW	A	Y	2.2
FLA013580	SUNRISE SOUTHWEST WWTP	DW	A	N	0.99
FLA013583	FERNCREST UTILITIES	DW	A	N	0.6
FLA013589	POWERLINE AMOCO CARWASH RECYCLER (GP)	IW	A	N	0.005
FLA013592	SHERIDAN & UNIV. SHELL (FMR T&L SHELL; KAREN'S SHELL)	IW	A	N	0
FLA013595	DAYSTAR,INC	DW	A	N	0.015
FLRNEE049	HEICO AEROSPACE CORPORATION	NEX	A	Y	0
FLRNEE074	AAA COOPER TRANSPORTATION	NEX	A	Y	0

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Facility ID	Name	Facility Type	Status	NPDES	Design Capacity (millions of gallons per day)
FLRNEE087	DAVIE - REDDY PLANT # 341	NEX	A	Y	0
FLRNEE140	GUARDIAN INDUSTRIES CORP.	NEX	A	Y	0
FL0040541	TOWN OF DAVIE WWTP	DW	A	Y	3
FLA169617	MARGATE, CITY OF EAST WWTP	DW	A	N	2.2
FLA041947	SUNRISE NO 1 WWTP (SPRINGTREE)	DW	A	N	9
FLA042633	SUNRISE NO 2 WWTP (PARK CITY)	DW	A	N	3
FLA161268	FIVEASH WATER TREATMENT PLANT	IW	A	N	0
FLA041301	CORAL SPRINGS IMP DIST WWTF	DW	A	N	5.5
FL0031771	BROWARD CO NORTH REGIONAL WWTP	DW	A	Y	80
North Dade Planning Unit					
FLRNEE259	AVEVA DRUG DELIVERY SYSTEMS, INC.	NEX	A	Y	0
FLA013647	MILLER LAKES APARTMENTS	DW	A	N	0.04
FLG110156	CENTRAL CONCRETE SUPERMIX - MIAMI SPRINGS (FMR CONTINENTAL)	CBP	A	Y	0
FLA016949	PRO PLAYERS STADIUM (FORMER JOE ROBBIE) COOLING TOWER	IW	A	N	0.01
FLA013634	FLORIDA TRANSPORT 82 (FMR FL PROCESSING CO)	IW	A	N	0.025
FLA013629	BIG CHEESE PIZZA	DW	A	N	0.005
FLRNEE204	AERIAL SIGN CO., INC.	NEX	A	Y	0
FLA013631	FLEA MARKET USA	DW	A	N	0.04
FLA013570	CITY OF MIRAMAR	OTH	A	N	0
FLA013575	PEMBROKE PINES, CITY OF WWTP	DW	A	N	9.5
FLA013603	S MIAMI SENIOR HIGH SCHOOL	DW	A	N	0.075
FLA013613	LAKEVIEW GARDENS APARTMENTS	DW	A	N	0.03
FLA013614	SHORES VILLAS CONDOMINIUM ASSOICATION	DW	A	N	0.04
FLA136174	CITGO/MIA (NOW DCAD SITE, EPA SW ONLY)	IW	N	N	0

Facility ID	Name	Facility Type	Status	NPDES	Design Capacity (millions of gallons per day)
FLA013627	NATIONS CHOICE SUPERMARKET	DW	A	N	0.015
FLA013636	SPRINGTREE APARTMENTS	DW	A	N	0.02
FLRNEE029	SOUTHEAST ATLANTIC BEVERAGE CORPORATION	NEX	A	Y	0
FLRNEE047	AMSA 47 G	NEX	A	Y	0
FLRNEE053	SEASTRIKE BOATS DBA VIP MARINE	NEX	A	Y	0
FLRNEE066	ELAN TRANSDERMAL TECHNOLOGIES	NEX	A	Y	0
FLRNEE068	SAFETY-KLEEN	NEX	A	Y	0
FLRNEE073	EDRON FIXTURE CORP.	NEX	A	Y	0
FLRNEE107	SCHERING LABORATORIES	NEX	A	Y	0
FLRNEE130	PRIME ENTERPRISES, INC.	NEX	A	Y	0
FL0001481	FPL CUTLER PLANT	IW	A	Y	313
FLA013645	VILLAGE PROFESSIONAL BLDG	DW	A	N	0.003
FLA182389	UNITED RENTALS (FKA U S RENTALS)	IW	A	N	0
FL0036978	ELIZABETH ARDEN (FMR FRENCH FRAGRANCES; FMR SUAVE BLDG)	IW	A	Y	3.5568
FL0038954	TEXACO/MIA (EPA STORMWATER ONLY)	IW	N	Y	0.01
FLG110172	CONTINENTAL - BRWD/M-D COUNTY LINE (FMR. METROMIX #2)	CBP	A	Y	0
FLA017023	RINKER MATERIALS - FEC QUARRY (660 GP)	IW	A	N	0
FLA016975	DADE COUNTY MOSQUITO CONTROL TRUCK WASH (CLRS)	IW	A	N	0.001
FLRNEE000	REPUBLIC METALS CORPORATION	NEX	A	Y	0
FLRNEE002	WINGS AVIATION SERVICES INC	NEX	A	Y	0
FLRNEE005	REUTER RECYCLING FACILITY	NEX	A	Y	0
FLRNEE007	ROYAL CABINETRY & MILLWORK, INC	NEX	A	Y	0
FLRNEE009	MIAMI RETAIL DISTRIBUTION CENTER	NEX	A	Y	0

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Facility ID	Name	Facility Type	Status	NPDES	Design Capacity (millions of gallons per day)
FLRNEE010	SUPERBRAND DAIRY PRODUCTS INC	NEX	A	Y	0
FLRNEE012	UNI-TECH FINISHERS, INC	NEX	A	Y	0
FLRNEE023	QUALEX OSP	NEX	A	Y	0
FLA016831	FLORIDA ROCK INDUSTRIES, MIAMI QUARRY (GP)	IW	A	N	6
FLA017025	MIRAMAR, CITY OF WWTF	DW	A	N	8.9
FLA017030	PINECREST ELEMENTARY SCHOOL	DW	A	N	0.02
FLA176681	RINKER MATERIALS - MIAMI CEMENT MILL	IW	A	N	2.16
FLA016068	MIA/FUEL FACILITY DA #4 STORMWATER	IW	N	N	0
FL0040339	EVERGLADES PIPELINE COMPANY - MIAMI	IW	A	Y	0.288
FLG830286	MIA/CONCOURSES E & F CLEANUP (GP)	PET	A	Y	0
South Dade Planning Unit					
FLA042137	MDWASD SOUTH DISTRICT WWTF	DW	A	N	112.5
FL0002721	HOMESTEAD MUNICIPAL POWER PLANT	IW	A	Y	12
FLA013608	REDLANDS MHP	DW	A	N	0.015
FLA013609	HOMESTEAD, CITY OF	DW	A	N	2.0025
FLA013605	KROME SERVICE PROCESSING CENTER	DW	C	N	0.12
FLA013622	QUAIL ROOST MOBILE HOME PARK	DW	T	N	0.186
FLA013623	CASA GRANADA CONDOMINIUM ASSN	DW	A	N	0.02
FLA013630	MIAMI EVERGLADES CAMPGROUND	DW	A	N	0.05
FLA013641	AMERICANA VILLAGE CONDOMINIUM ASSOCIATION, INC.	DW	A	N	0.2
FLA013652	GULFSTREAM TOMATO GROWERS	IW	N	N	0.0046
FLA013654	IFAS-TREC	IW	N	N	0
FL0001562	FPL TURKEY POINT PLANT	IW	A	Y	0
FLA013625	BROOKS TROPICALS	DW	A	N	0.0075
FLA182036	ROKAVIAR, INC	IW	A	N	0.018

Facility ID	Name	Facility Type	Status	NPDES	Design Capacity (millions of gallons per day)
FLA013612	FLORIDA POWER&LIGHT-TURKEY POINT	DW	A	N	0.018
FLA013624	EVERGLADES ACADEMY	DW	A	N	0.035
FLA013633	SUNRISE COMMUNITY, INC	DW	A	N	0.024
FLA016812	REDLANDS SCHOOL WWTP - DCPS	DW	A	N	0.05
FLA016892	RINKER MATERIALS - KROME QUARRY (660 GP)	IW	A	N	0
Intracoastal Planning Unit					
FLRNEE243	ABB INC.	NEX	A	Y	0
FLRNEE267	POMPANO BEACH AUXILIARY VEHICLE MAINTENANCE FACILITY	NEX	A	Y	0
FLA013637	CRICKET CLUB CONDOMINIUM	DW	A	N	0.105
FLA185116	NATIONSRENT - HOLLYWOOD	IW	A	N	0.01
FLA014932	DANNY'S RESTAURANT	DW	A	N	0
FL0178870	FAU SEA-TECH FACILITY	IW	A	Y	0.15
FLA015001	ANCHORAGE RESORT & YACHT CLUB	DW	A	N	0
FL0036625	HALL OF FAME AQUATIC COMPLEX (AKA INT'L SWIMMING H.O.F)	IW	A	Y	0.475
FLA014995	FAMILY PARADISE ISLAND	DW	A	N	0
FL0001848	GARDEN POINT CONDOMINIUM, INC	IW	A	Y	0.31
FLA013642	MIAMI SHORES CONDOMINIUM	DW	A	N	0.032
FL0001538	FPL PORT EVERGLADES PLANT	IW	A	Y	6.624
FLA013581	POMPANO BEACH COMMUNITY PARK REUSE CITY	DW	A	N	2.5
FL0000582	MOTIVA/PE NORTH TERMINAL (FORMER SHELL FACILITY)	IW	A	Y	0

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Facility ID	Name	Facility Type	Status	NPDES	Design Capacity (millions of gallons per day)
FL0043460	EXXONMOBIL OIL CORP/PORT EVERGLADES TERMINAL FACILITY	IW	A	Y	0.5
FLA024805	MDWASA CENTRAL DISTRICT WWTF	DW	A	N	121
FL0032182	MDWASD N DISTRICT WWTP	DW	A	Y	112.5
FLA013648	KOVENS, KEITH	UIC	A	N	0
FLA013649	JACKSON MEMORIAL HOSPITAL	UIC	A	N	0
FLA013650	SOUTHERN BELL T & T CO	UIC	A	N	0
FLRNEE115	SEABULK INTERNATIONAL, INC.	NEX	A	Y	0
FL0026255	HOLLYWOOD SOUTHERN REGIONAL WWTF	DW	A	Y	42
FLA041378	FORT LAUDERDALE - G T LOHMEYER WWTP	DW	A	N	0
FL0043923	CHEVRON PRODUCTS CO /PORT EVERGLADES	IW	A	Y	0.5
FL0173975	MARATHON ASHLAND PETROLEUM/PORT EVERGLADES TERMINAL	IW	A	Y	0.75
FL0044148	BP PRODUCTS N AMERICA (FMR AMOCO)/PORT EVERGLADES	IW	A	Y	0.8
FL0044342	NAVAL SURFACE WARFARE CENTER (SFTF)	IW	A	Y	0.5
FL0169129	MIAMI SEAQUARIUM	IW	A	Y	8
FL0022543	TRANSMONTAIGNE PRODUCT SERVICES, INC./PORT EVERGLADES	IW	A	Y	0.5
FLA015009	NORTH KEY LARGO W W T P	DW	A	N	0.55
FL0002844	GRANADA HOUSE AT POMPANNO BEACH	IW	A	Y	0.048
FL0044130	AMOOCO OIL PETROLEUM BULK TERMINAL - 28TH STREET	IW	N	Y	0.5
FL0036064	COASTAL FUELS/FISHER ISLAND TERMINAL	IW	A	Y	0.5

Facility ID	Name	Facility Type	Status	NPDES	Design Capacity (millions of gallons per day)
FL0039969	COASTAL FUELS - PORT EVERGLADES TERMINAL	IW	A	Y	0
FL0035351	MOTIVA/PE EAST TERMINAL (FORMER GATX)	IW	A	Y	0.5
FLA013599	AMERADA HESS CORPORATION, FT LAUDERDALE TERMINAL	IW	A	N	0.5
FL0167720	MOTIVA/PE SOUTH TERMINAL (FORMER STAR ENTERPRISES FACILITY)	IW	A	Y	0
FLA014885	MANATEE BAY CLUB	DW	A	N	0

Table D.2: Superfund Sites, by Planning Unit

Name	Program	Status	Operation	Program Leader
Broward Planning Unit				
Wingate Road Incinerator Dump	Superfund	Active	Landfill/Dump	EPA PRP
Davie Landfill	Superfund	Active	Landfill/Dump	EPA PRP
Wilson Concepts	Superfund	Delisted	Steel/Metal/Electrical Processor	EPA PRP
Chemform	Superfund	Delisted	Steel/Metal/Electrical Processor	EPA PRP
Hollingsworth Solderless Terminal	Superfund	Active	Steel/Metal/Electrical Processor	EPA FUND LEAD
North Dade Planning Unit				
Biscayne Aquifer - NW 58th Street Landfill	Superfund	Delisted	Landfill/Dump	EPA PRP
Biscayne Aquifer - Varsol	Superfund	Delisted	Other	EPA PRP
Pepper's Steel and Alloys	Superfund	Active	Steel/Metal/Electrical Processor	EPA PRP
Petroleum Products	Superfund	Active	Waste Oil Disposal Site	EPA PRP
B & B Chemical	Superfund	Active	Chemical Manufacture/Processor	EPA PRP
Airco Plating	Superfund	Active	Electroplater	EPA PRP
Anaconda Aluminum/Milgo Electronics	Superfund	Delisted	Electroplater	EPA PRP
Standard Auto Bumper	Superfund	Active	Electroplater	EPA FUND LEAD
Anodyne	Superfund	Active	Electroplater	EPA PRP
Gold Coast Oil	Superfund	Delisted	Industrial Solvent Disposal Site	EPA PRP
Biscayne Aquifer - Miami Drum	Superfund	Active	Industrial Solvent Disposal Site	EPA PRP
South Dade Planning Unit				
Woodbury Chemical	Superfund	Delisted	Pesticide/Insecticide/Herbicide	EPA PRP
Intracoastal Planning Unit				
Munisport Landfill	Superfund	Delisted	Landfill/Dump	EPA PRP
Florida Petroleum Processors	Superfund	Active	Waste Oil Disposal Site	EPA PRP

Table D.3: Permitted Landfill Facilities, by Planning Unit

Facility ID	Name	Status*	Facility Type	Planning Unit
Broward Planning Unit				
53209	BROWARD CO.SOUTH RESOURCE RECOVERY	A	SOLID WASTE	Broward County
53353	COPANS RD DUMP	K	SOLID WASTE	Broward County
53788	CHEROKEE CRUSHED STONE	I	SOLID WASTE	Broward County
53217	CORAL SPRINGS DUMP	K	SOLID WASTE	Broward County
53301	NORTH REG WWTP SLUDGE LANDFILL	I	SOLID WASTE	Broward County
53328	BROWARD CNTY INTERIM CONTINGENCY LF	A	SOLID WASTE	Broward County
53764	CHAMPION MOTORS INCORPORATED	I	SOLID WASTE	Broward County
53347	CORAL SPRINGS DUMP	K	SOLID WASTE	Broward County
53304	DAVIE LF (BROWARD COUNTY LF #1)	K	SOLID WASTE	Broward County
North Dade County				
58629	DADE RECYCLING CENTER INC. (C&D) #1	I	SOLID WASTE	North Dade County
58551	DADE RECYCLING CENTER #5	I	SOLID WASTE	North Dade County
59976	A B MARTIN TRACT 22-23	I	SOLID WASTE	North Dade County
57136	TOWN OF SURFSIDE DUMP	K	SOLID WASTE	North Dade County
57134	CITY OF MIAMI BEACH OJUS LF	K	SOLID WASTE	North Dade County
53346	C B SMITH PARK DUMP	K	SOLID WASTE	North Dade County
59143	DADE RECYCLING CENTER 7	I	SOLID WASTE	North Dade County
59432	AB MARTIN #3 T36, 37, 44-46	I	SOLID WASTE	North Dade County
59969	DADE RECYCLING CENTER T 49-52	A	SOLID WASTE	North Dade County
59068	LOFRA LANDFILL	I	SOLID WASTE	North Dade County
59142	DADE RECYCLING CENTER #6	I	SOLID WASTE	North Dade County
60080	MEDLEY LANDFILL AND RECYCLING CENTER	A	SOLID WASTE	North Dade County
56823	NORTH DADE COUNTY CLASS III TRASH	A	SOLID WASTE	North Dade County
60081	MARKS BROTHERS CO TRASH DUMP	K	SOLID WASTE	North Dade County
85432	WASTE CORP OF FLORIDA	A	SOLID WASTE	North Dade County
59140	DADE RECYCLING CENTER 8	I	SOLID WASTE	North Dade County

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Facility ID	Name	Status*	Facility Type	Planning Unit
56822	NORTH DADE LF	A	SOLID WASTE	North Dade County
58722	CAPELETTI BROS., INC. (C & D)	A	SOLID WASTE	North Dade County
59141	DADE RECYCLING CENTER #10	I	SOLID WASTE	North Dade County
58874	ATLANTIC RECYCLING CORP	I	SOLID WASTE	North Dade County
60079	MEDLEY LANDFILL AND RECYCLING CENTER	A	SOLID WASTE	North Dade County
59262	A. B. MARTIN LAND DEV., INC T39	I	SOLID WASTE	North Dade County
59015	DADE RECYCLING CENTER, INC. #3	I	SOLID WASTE	North Dade County
56817	K-LAND	K	SOLID WASTE	North Dade County
59144	DADE RECYCLING CENTER 9	I	SOLID WASTE	North Dade County
60082	MINTON'S LANDFILL	I	SOLID WASTE	North Dade County
59442	DADE RECYCLING CENTER, INC. #12	I	SOLID WASTE	North Dade County
59388	DADE RECYCLING C. I. TRACT 55	A	SOLID WASTE	North Dade County
59443	C & C RECYCLING, INC.	A	SOLID WASTE	North Dade County
59985	ALL DADE RECYCLING CENTER, INC.	I	SOLID WASTE	North Dade County
59589	DADE RECYCLING CENTER	A	SOLID WASTE	North Dade County
58430	A B MARTIN #2 (PARCEL B) C&D FACIL	I	SOLID WASTE	North Dade County
56828	MIAMI INT. AIRPORT INCINERATOR	I	SOLID WASTE	North Dade County
56829	TRAIL GLADE RANGES	K	SOLID WASTE	North Dade County
58709	HARDTRACK ENTERPRISE (C & D)	I	SOLID WASTE	North Dade County
60042	DADE RECYCLING AND DISPOSAL	I	SOLID WASTE	North Dade County
59995	LOFRA RECYCLING	A	SOLID WASTE	North Dade County
56819	58TH ST LF (MAIN COUNTY LF)	K	SOLID WASTE	North Dade County
57870	TONY WAHER DUMP	I	SOLID WASTE	North Dade County
56827	MIAMI INTERNATIONAL AIRPORT ASH LF	K	SOLID WASTE	North Dade County
59776	DADE RECYCLING CENTER, INC.	I	SOLID WASTE	North Dade County
58628	DADE RECYCLING CENTER INC. (C&D) #2	I	SOLID WASTE	North Dade County

Facility ID	Name	Status*	Facility Type	Planning Unit
85315	ALL AB MARTIN TRACTS- NW 107 AVE & NW 166ST	A	SOLID WASTE	North Dade County
56825	DADE COUNTY RESOURCE RECOVERY	A	SOLID WASTE	North Dade County
South Dade Planning Unit				
59716	AMERICAN ENVIRONMENTAL RECYCLING	I	SOLID WASTE	South Dade County
56824	SOUTH DADE SHREDDED WASTE LF	A	SOLID WASTE	South Dade County
59260	H & H LAND CLEARING, INC.	I	SOLID WASTE	South Dade County
59449	SOUTH FLORIDA RECOVERY	I	SOLID WASTE	South Dade County
59292	C & D RECYCLING CORP.	I	SOLID WASTE	South Dade County
59586	C & D RECYCLING CORP	I	SOLID WASTE	South Dade County
59459	SOUTH FLORIDA RECOVERY	I	SOLID WASTE	South Dade County
58463	HOMESTEAD LANDFILL & RECYCLING CTR	A	SOLID WASTE	South Dade County
56831	SOUTH DADE SW REDUCT FACILITY	I	SOLID WASTE	South Dade County
56980	HOMESTEAD-FLORIDA CITY DUMP	K	SOLID WASTE	South Dade County
58371	HOMESTEAD PROPERTIES (C & D)	I	SOLID WASTE	South Dade County
56820	SOUTH DADE DUMP	K	SOLID WASTE	South Dade County
Intracoastal Planning Unit				
79544	KEY LARGO LANDFILL	I	SOLID WASTE	Biscayne Bay Intercoastal
55102	EAST MARSH NURSERY TRASH LF #1	I	SOLID WASTE	Biscayne Bay Intercoastal
60083	PACE DUMP	K	SOLID WASTE	Biscayne Bay Intercoastal
53352	ANSIN BLVD DUMP	K	SOLID WASTE	Biscayne Bay Intercoastal
55103	EAST MARSH NURSERY TRASH LF #2	I	SOLID WASTE	Biscayne Bay Intercoastal
79483	KEY LARGO DUMP (OLD)	I	SOLID WASTE	Biscayne Bay Intercoastal
56818	HAULOVER BCH PARK DUMP	K	SOLID WASTE	Biscayne Bay Intercoastal
57135	MUNISPORT-NORTH MIAMI LF	I	SOLID WASTE	Biscayne Bay Intercoastal
57137	VIRGINIA KEY RUBBISH DUMP	K	SOLID WASTE	Biscayne Bay Intercoastal
53540	PORT EVERGLADES CENTRAL DISPOSAL	K	SOLID WASTE	Biscayne Bay Intercoastal

Appendix E: Integrated Assessment (Master List) for the Biscayne Bay–Southeast Coast Basin

Table E.1: Integrated Assessment (Master List), by Planning Unit

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Broward County Planning Unit							
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Arsenic	Insufficient Data	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Chlorophyll	Not Impaired	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Conductance	Planning	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Chromium3	Insufficient Data	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Copper	Insufficient Data	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	Dissolved Oxygen	Dissolved Oxygen	Planning	2010
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Fluoride	Insufficient Data	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	Fecal Coliforms	Fecal Coliforms	Not Impaired	2010
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Iron	Insufficient Data	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Historic Chlorophyll	Not Impaired	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Nickel	Insufficient Data	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Total Coliform	Not impaired	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Turbidity	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Unionized Ammonia	Insufficient Data	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		Zinc	Insufficient Data	
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM		pH	Not impaired	
Broward County	3271	POMPANO CANAL	STREAM		Chlorophyll	Not impaired	
Broward County	3271	POMPANO CANAL	STREAM		Conductance	Not Impaired	
Broward County	3271	POMPANO CANAL	STREAM		Chromium3	Insufficient Data	
Broward County	3271	POMPANO CANAL	STREAM		Dissolved Oxygen	Impaired	
Broward County	3271	POMPANO CANAL	STREAM		Fecal Coliforms	Not Impaired	
Broward County	3271	POMPANO CANAL	STREAM		Iron	Insufficient Data	
Broward County	3271	POMPANO CANAL	STREAM		Historic Chlorophyll	Impaired	
Broward County	3271	POMPANO CANAL	STREAM		Nickel	Insufficient Data	
Broward County	3271	POMPANO CANAL	STREAM		Lead	Insufficient Data	
Broward County	3271	POMPANO CANAL	STREAM		Total Coliform	Not Impaired	
Broward County	3271	POMPANO CANAL	STREAM		Turbidity	Not Impaired	
Broward County	3271	POMPANO CANAL	STREAM		Unionized Ammonia	Insufficient Data	
Broward County	3271	POMPANO CANAL	STREAM		Zinc	Insufficient Data	
Broward County	3271	POMPANO CANAL	STREAM		pH	Not Impaired	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Arsenic	Insufficient Data	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Chlorophyll	Not Impaired	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Conductance	Not Impaired	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Chromium3	Insufficient Data	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2010
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Fluoride	Insufficient Data	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM	Fecal Coliforms	Fecal Coliforms	Not Impaired	2010

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Iron	Insufficient Data	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Historic Chlorophyll	Not Impaired	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Nickel	Insufficient Data	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Lead	Planning	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Total Coliform	Not Impaired	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Turbidity	Not Impaired	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Unionized Ammonia	Insufficient Data	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		Zinc	Insufficient Data	
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM		pH	Not Impaired	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Alkalinity	Insufficient Data	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Arsenic	Insufficient Data	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Chlorophyll	Impaired	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Conductance	Impaired	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Chromium3	Insufficient Data	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Dissolved Oxygen	Impaired	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Fecal Coliforms	Impaired	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Iron	Insufficient Data	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Historic Chlorophyll	Not Impaired	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Nickel	Insufficient Data	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Total Coliform	Not Impaired	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Turbidity	Not Impaired	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Unionized Ammonia	Insufficient Data	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		Zinc	Insufficient Data	
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY		pH	Not Impaired	
Broward County	3274A	LAKE MELVA	LAKE		Chlorophyll	Insufficient Data	
Broward County	3274A	LAKE MELVA	LAKE		TSI	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Broward County	3275	L-35A BORROW	STREAM		Chlorophyll	Insufficient Data	
Broward County	3275	L-35A BORROW	STREAM		Conductance	Insufficient Data	
Broward County	3275	L-35A BORROW	STREAM		Dissolved Oxygen	Insufficient Data	
Broward County	3275	L-35A BORROW	STREAM		Fluoride	Insufficient Data	
Broward County	3275	L-35A BORROW	STREAM		Fecal Coliforms	Insufficient Data	
Broward County	3275	L-35A BORROW	STREAM		Turbidity	Insufficient Data	
Broward County	3275	L-35A BORROW	STREAM		pH	Insufficient Data	
Broward County	3276	C-12	STREAM		Arsenic	Insufficient Data	
Broward County	3276	C-12	STREAM		Chlorophyll	Not Impaired	
Broward County	3276	C-12	STREAM		Conductance	Not Impaired	
Broward County	3276	C-12	STREAM		Chromium3	Insufficient Data	
Broward County	3276	C-12	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2010
Broward County	3276	C-12	STREAM		Fluoride	Insufficient Data	
Broward County	3276	C-12	STREAM	Fecal Coliforms	Fecal Coliforms	Not Impaired	2010
Broward County	3276	C-12	STREAM		Iron	Insufficient Data	
Broward County	3276	C-12	STREAM		Historic Chlorophyll	Not Impaired	
Broward County	3276	C-12	STREAM		Nickel	Insufficient Data	
Broward County	3276	C-12	STREAM		Lead	Insufficient Data	
Broward County	3276	C-12	STREAM		Total Coliform	Not Impaired	
Broward County	3276	C-12	STREAM		Turbidity	Not Impaired	
Broward County	3276	C-12	STREAM		Unionized Ammonia	Insufficient Data	
Broward County	3276	C-12	STREAM		Zinc	Insufficient Data	
Broward County	3276	C-12	STREAM		pH	Insufficient Data	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Arsenic	Insufficient Data	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Cadmium	Insufficient Data	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Chlorophyll	Impaired	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Copper	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Dissolved Oxygen	Impaired	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Fecal Coliforms	Impaired	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Iron	Insufficient Data	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Mercury	Impaired	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Historic Chlorophyll	Impaired	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Lead	Insufficient Data	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Selenium	Insufficient Data	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Total Coliform	Impaired	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		Turbidity	Not Impaired	
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY		pH	Not Impaired	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Alkalinity	Insufficient Data	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Arsenic	Insufficient Data	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Chlorophyll	Not Impaired	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Conductance	Not Impaired	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Chromium3	Insufficient Data	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Copper	Insufficient Data	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2010
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Fluoride	Insufficient Data	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	Fecal Coliforms	Fecal Coliforms	Not Impaired	2010
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Iron	Insufficient Data	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Historic Chlorophyll	Not Impaired	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Nickel	Insufficient Data	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Total Coliform	Not Impaired	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Turbidity	Not Impaired	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Unionized Ammonia	Insufficient Data	
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		Zinc	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Broward County	3277	NORTH NEW RIVER CANAL	STREAM		pH	Not Impaired	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Arsenic	Insufficient Data	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Chlorophyll	Not Impaired	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Copper	Planning	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY	Dissolved Oxygen	Dissolved Oxygen	Planning	2010
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Fluoride	Insufficient Data	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY	Fecal Coliforms	Fecal Coliforms	Not Impaired	2010
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Iron	Insufficient Data	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Historic Chlorophyll	Not Impaired	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Lead	Insufficient Data	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Total Coliform	Not Impaired	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		Turbidity	Not Impaired	
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY		pH	Not Impaired	
Broward County	3277E	DANIA CUTOFF CANAL	STREAM		Chlorophyll	Insufficient Data	
Broward County	3277E	DANIA CUTOFF CANAL	STREAM		Conductance	Insufficient Data	
Broward County	3277E	DANIA CUTOFF CANAL	STREAM		Dissolved Oxygen	Insufficient Data	
Broward County	3277E	DANIA CUTOFF CANAL	STREAM		Fluoride	Insufficient Data	
Broward County	3277E	DANIA CUTOFF CANAL	STREAM		Fecal Coliforms	Insufficient Data	
Broward County	3277E	DANIA CUTOFF CANAL	STREAM		Turbidity	Insufficient Data	
Broward County	3277E	DANIA CUTOFF CANAL	STREAM		pH	Insufficient Data	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Alkalinity	Not Impaired	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Arsenic	Insufficient Data	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Chlorophyll	Not Impaired	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Conductance	Not Impaired	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Chromium3	Insufficient Data	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Copper	Not Impaired	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2010

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Fluoride	Insufficient Data	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	Fecal Coliforms	Fecal Coliforms	Not Impaired	2010
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Iron	Insufficient Data	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Historic Chlorophyll	Not Impaired	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Nickel	Insufficient Data	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Total Coliform	Not Impaired	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Turbidity	Not Impaired	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Unionized Ammonia	Insufficient Data	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		Zinc	Insufficient Data	
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM		pH	Not Impaired	
Broward County	3281	C-11 EAST	STREAM		Chlorophyll	Not Impaired	
Broward County	3281	C-11 EAST	STREAM		Conductance	Not Impaired	
Broward County	3281	C-11 EAST	STREAM		Chromium3	Insufficient Data	
Broward County	3281	C-11 EAST	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2010
Broward County	3281	C-11 EAST	STREAM	Fecal Coliforms	Fecal Coliforms	Not Impaired	2010
Broward County	3281	C-11 EAST	STREAM		Iron	Insufficient Data	
Broward County	3281	C-11 EAST	STREAM		Historic Chlorophyll	Not Impaired	
Broward County	3281	C-11 EAST	STREAM		Nickel	Insufficient Data	
Broward County	3281	C-11 EAST	STREAM		Total Coliform	Insufficient Data	
Broward County	3281	C-11 EAST	STREAM		Turbidity	Not Impaired	
Broward County	3281	C-11 EAST	STREAM		Unionized Ammonia	Insufficient Data	
Broward County	3281	C-11 EAST	STREAM		Zinc	Insufficient Data	
Broward County	3281	C-11 EAST	STREAM		pH	Not Impaired	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Chlorophyll	Impaired	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Copper	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Dissolved Oxygen	Not Impaired	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Fecal Coliforms	Not Impaired	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Iron	Insufficient Data	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Historic Chlorophyll	Impaired	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Total Coliform	Insufficient Data	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Turbidity	Not Impaired	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		Zinc	Insufficient Data	
Broward County	3282	HOLLYWOOD CANAL	ESTUARY		pH	Not Impaired	
North Miami-Dade County							
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Silver	Planning	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Alkalinity	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Beta BHC	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Berylium	Planning	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Bromoform	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Cadmium	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Chlordane	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Chlorodibromomethane	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Methylene Chloride	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Chlorophyll	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Conductance	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Chromium3	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Copper	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Dichloroethylene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		2,4-Dichlorophenol	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		DDT	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Dieldrin	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		2,4-Dinitrophenol	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Dissolved Oxygen	Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Endosulfan	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Endrin	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Fecal Coliforms	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Fluoranthene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Fluorene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Guthion	Planning	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Heptachlor	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Mercury	Planning	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Lindane	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Malathion	Planning	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Methyl Chloride	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Mirex	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Methoxychlor	Planning	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Nickel	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Oil/Grease	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Lead	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Phenol	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Antimony	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Selenium	Planning	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Total Coliform	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Thallium	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Toxaphene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Turbidity	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Unionized Ammonia	Insufficient Data	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		Zinc	Not Impaired	
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM		pH	Not Impaired	
North Miami-Dade County	3283A	DESOTO LAKE	LAKE		Chlorophyll	Insufficient Data	
North Miami-Dade County	3283A	DESOTO LAKE	LAKE		TSI	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Silver	Planning	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Beryllium	Planning	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Bromoform	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Cadmium	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Chlorophyll	Not Impaired	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Conductance	Not Impaired	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Chromium3	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Copper	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		24Dichlorophenol	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		DDT	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Dieldrin	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		24Dinitrophenol	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2010
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Endrin	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Fecal Coliforms	Not Impaired	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Iron	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Fluoranthene	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Heptachlor	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Mercury	Planning	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Historic Chlorophyll	Not Impaired	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Lindane	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Methyl Chloride	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Nickel	Not Impaired	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Oil/Grease	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Lead	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Phenol	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Antimony	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Selenium	Planning	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Total Coliform	Not Impaired	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Thallium	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Turbidity	Not Impaired	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Unionized Ammonia	Insufficient Data	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		Zinc	Not Impaired	
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM		pH	Not Impaired	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		24Dinitrotoluene	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Silver	Planning	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Alkalinity	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Beta BHC	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Berylium	Planning	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Bromoform	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Cadmium	Not Impaired	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Chlordane	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Methylene Chloride	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Chlorophyll	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Conductance	Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Chromium3	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Copper	Not Impaired	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Dichloroethylene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		24Dichlorophenol	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		DDT	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Dieldrin	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		24Dinitrophenol	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2010
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Endosulfan	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Endrin	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	Fecal Coliforms	Fecal Coliforms	Impaired	2010
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Fluoranthene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Fluorene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Guthion	Planning	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Hexachlorobutadiene	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Heptachlor	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Mercury	Planning	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Lindane	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Malathion	Planning	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Methyl Chloride	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Methoxychlor	Planning	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Nickel	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Oil/Grease	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Lead	Not Impaired	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Phenol	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Antimony	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Selenium	Planning	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Total Coliform	Impaired	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Thallium	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Toxaphene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Turbidity	Not Impaired	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Unionized Ammonia	Not Impaired	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		Zinc	Not Impaired	
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM		pH	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Silver	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Beryllium	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Bromoform	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Cadmium	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Chlordane	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Chlorophyll	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Conductance	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Chromium3	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Copper	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		24Dichlorophenol	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		DDT	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Dieldrin	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		24Dinitrophenol	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Dissolved Oxygen	Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Endrin	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Fecal Coliforms	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Fluoranthene	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Guthion	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Heptachlor	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Mercury	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Lindane	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Malathion	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Methyl Chloride	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Methoxychlor	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Nickel	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Oil/Grease	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Lead	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Phenol	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Antimony	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Selenium	Planning	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Tetrachloroethylene	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Total Coliform	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Thallium	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Toxaphene	Insufficient Data	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Turbidity	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		Zinc	Not Impaired	
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM		pH	Not Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Silver	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Alkalinity	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Beta BHC	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Beryllium	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Bromoform	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Cadmium	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Chlordane	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Chlorodibromomethane	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Methylene Chloride	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Chlorophyll	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Conductance	Not Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Chromium3	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Copper	Not Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Dichloroethylene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		2,4-Dichlorophenol	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		DDT	Planning	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Dieldrin	Planning	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		2,4-Dinitrophenol	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Dissolved Oxygen	Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Endosulfan	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Endrin	Planning	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Fecal Coliforms	Not Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Fluoranthene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Fluorene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Guthion	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Heptachlor	Planning	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Mercury	Planning	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Lindane	Planning	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Malathion	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Methyl Chloride	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Methoxychlor	Planning	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Nickel	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Oil/Grease	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Lead	Not Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Phenol	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Antimony	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Selenium	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Total Coliform	Not Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Thallium	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Toxaphene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Turbidity	Not Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		Zinc	Not Impaired	
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM		pH	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Silver	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Alkalinity	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Beta BHC	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Berylium	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Bromoform	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Cadmium	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Chlordane	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Methylene Chloride	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Conductance	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Chromium3	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Copper	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Dichloroethylene	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		24Dichlorophenol	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		DDT	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Dieldrin	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		24Dinitrophenol	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Dissolved Oxygen	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Endosulfan	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Endrin	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Fecal Coliforms	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Fluoranthene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Fluorene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Guthion	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Heptachlor	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Mercury	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Lindane	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Malathion	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Methyl Chloride	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Methoxychlor	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Nickel	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Oil/Grease	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Lead	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Phenol	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Antimony	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Selenium	Planning	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Total Coliform	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Thallium	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Toxaphene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Turbidity	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		Zinc	Not Impaired	
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM		pH	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3286D	C-5/ Comfort Canal				No Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Silver	Planning	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Alkalinity	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Beta BHC	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Berylium	Planning	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Bromoform	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Cadmium	Not Impaired	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Chlordane	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Methylene Chloride	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Chlorophyll	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Conductance	Not Impaired	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Chromium3	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Copper	Not Impaired	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Dichloroethylene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		24Dichlorophenol	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		DDT	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Dieldrin	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		24Dinitrophenol	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2010
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Endosulfan	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Endrin	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM	Fecal Coliforms	Fecal Coliforms	Impaired	2010
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Fluoranthene	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Fluorene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Guthion	Planning	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Heptachlor	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Mercury	Planning	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Lindane	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Malathion	Planning	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Methyl Chloride	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Methoxychlor	Planning	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Nickel	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Oil/Grease	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Lead	Not Impaired	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Phenol	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Antimony	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Selenium	Planning	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		1122Tetrachloroethane	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Total Coliform	Impaired	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Thallium	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Toxaphene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Turbidity	Not Impaired	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Unionized Ammonia	Insufficient Data	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		Zinc	Not Impaired	
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM		pH	Not Impaired	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Anthracene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Aluminum	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Aldrin	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Acenaphthene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Arsenic	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Beta BHC	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Beryllium	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Bromoform	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Cadmium	Not Impaired	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Chloroform	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Methylene Chloride	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Chlorophyll	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Cyanide	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Chlorophenol	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Copper	Planning	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Dichloroethylene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		24Dichlorophenol	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		DDT	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Dieldrin	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		24Dinitrophenol	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	Dissolved Oxygen	Dissolved Oxygen	Planning	2010
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Endosulfan	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Endrin	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Fluoride	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	Fecal Coliforms	Fecal Coliforms	Planning	2010
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Iron	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Fluoranthene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Fluorene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Heptachlor	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Mercury	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Lindane	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Methyl Chloride	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Nickel	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Oil/Grease	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Lead	Not Impaired	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Phenol	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Pyrene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Antimony	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Selenium	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Total Coliform	Planning	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Thallium	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Turbidity	Not Impaired	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		Zinc	Not Impaired	
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY		pH	Not Impaired	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Anthracene	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Acenaphthene	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Arsenic	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Berylium	Planning	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Cadmium	Not Impaired	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Copper	Planning	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY	Dissolved Oxygen	Dissolved Oxygen	Planning	2005
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY	Fecal Coliforms	Fecal Coliforms	Planning	2005
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Iron	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Fluoranthene	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Mercury	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Nickel	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Lead	Not Impaired	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Pyrene	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Antimony	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Selenium	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Total Coliform	Planning	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Thallium	Insufficient Data	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Turbidity	Not Impaired	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		Zinc	Not Impaired	
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY		pH	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Anthracene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Silver	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Aldrin	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Alkalinity	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Acenaphthene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Arsenic	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Beta BHC	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Beryllium	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Bromoform	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Benzene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Cadmium	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Chlordane	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Chloroform	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Methylene Chloride	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Chlorophyll	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Cyanide	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Conductance	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Chlorophenol	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Chromium3	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Copper	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Dichloroethylene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		24Dichlorophenol	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		DDT	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Dieldrin	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		24Dinitrophenol	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Dissolved Oxygen	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Endosulfan	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Endrin	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Fluoride	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Fecal Coliforms	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Fluoranthene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Fluorene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Guthion	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Heptachlor	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Mercury	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Historic Chlorophyll	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Lindane	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Malathion	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Methyl Chloride	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Methoxychlor	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Nickel	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Oil/Grease	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Lead	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Phenol	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Pyrene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Antimony	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Selenium	Planning	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Total Coliform	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Thallium	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Toxaphene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Turbidity	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		Zinc	Not Impaired	
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY		pH	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Silver	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Alkalinity	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Beta BHC	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Berylium	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Bromoform	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Cadmium	Not Impaired	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Chlordane	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Methylene Chloride	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Chlorophyll	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Conductance	Not Impaired	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Chromium3	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Copper	Not Impaired	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Dichloroethylene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		24Dichlorophenol	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		DDT	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Dieldrin	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		24Dinitrophenol	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Dissolved Oxygen	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Endosulfan	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Endrin	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Fecal Coliforms	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Fluoranthene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Fluorene	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Guthion	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Heptachlor	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Mercury	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Lindane	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Malathion	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Methyl Chloride	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Methoxychlor	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Nickel	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Oil/Grease	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Lead	Not Impaired	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Phenol	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Antimony	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Selenium	Planning	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Tetrachloroethylene	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Total Coliform	Impaired	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Thallium	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Toxaphene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Turbidity	Not Impaired	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Unionized Ammonia	Insufficient Data	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		Zinc	Not Impaired	
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM		pH	Not Impaired	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		246 Trichlorophenol	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		24Dinitrotoluene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Anthracene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Silver	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Aldrin	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Alkalinity	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Acenaphthene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Arsenic	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Beta BHC	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Beryllium	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Bromoform	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Benzene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Cadmium	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Chlorodibromomet hane	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Chloroform	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Methylene Chloride	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Chlorophyll	Not Impaired	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Cyanide	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Conductance	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Chlorophenol	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Chromium3	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Carbon Tetrachloride	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Copper	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Dichloroethylene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		24Dichlorophenol	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		DDT	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Dieldrin	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		24Dinitrophenol	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Dissolved Oxygen	Planning	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Endosulfan	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Endrin	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Fluoride	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Fluoranthene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Fluorene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Hexachlorobutadiene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Heptachlor	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Mercury	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Lindane	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Methyl Chloride	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Nickel	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Oil/Grease	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Lead	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Pentachlorophenol	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Phenol	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Pyrene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Antimony	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Selenium	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		1122Tetrachloroethane	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Tetrachloroethylene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Thallium	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Trichlorethylene	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Turbidity	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Unionized Ammonia	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		Zinc	Insufficient Data	
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM		pH	Insufficient Data	
North Miami-Dade County	3293A	HAMMOCK LAKE WEST	LAKE		Chlorophyll	Insufficient Data	
North Miami-Dade County	3293A	HAMMOCK LAKE WEST	LAKE		TSI	Insufficient Data	
North Miami-Dade County	3293A1	HAMMOCK LAKE EAST	LAKE		Chlorophyll	Insufficient Data	
North Miami-Dade County	3293A1	HAMMOCK LAKE EAST	LAKE		TSI	Not Impaired	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Cadmium	Insufficient Data	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Chlorophyll	Not Impaired	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Copper	Insufficient Data	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Dissolved Oxygen	Planning	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Fecal Coliforms	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Historic Chlorophyll	Not Impaired	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Lead	Insufficient Data	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Total Coliform	Not Impaired	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Turbidity	Not Impaired	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		Zinc	Insufficient Data	
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY		pH	Not Impaired	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Chlorophyll	Not Impaired	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Copper	Insufficient Data	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Dissolved Oxygen	Not Impaired	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Fecal Coliforms	Not Impaired	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Mercury - Fish	Impaired	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Historic Chlorophyll	Not Impaired	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Lead	Insufficient Data	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Total Coliform	Not Impaired	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Turbidity	Insufficient Data	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		Zinc	Insufficient Data	
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL		pH	Insufficient Data	
South Miami-Dade County							

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Silver	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Alkalinity	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Arsenic	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Beta BHC	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Berylium	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Cadmium	Not Impaired	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Chlordane	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Chlorodibromomet hane	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Cyanide	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Conductance	Not Impaired	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Copper	Not Impaired	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		DDT	Planning	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Dieldrin	Planning	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM	Dissolved Oxygen	Dissolved Oxygen	Planning	2010
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Endosulfan	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Endrin	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Fluoride	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Iron	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Fluorene	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Guthion	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Heptachlor	Planning	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Mercury	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Lindane	Planning	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Malathion	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Methoxychlor	Planning	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Lead	Not Impaired	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Selenium	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Tetrachloroethylene	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Total Coliform	Not Impaired	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Toxaphene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Unionized Ammonia	Insufficient Data	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM		pH	Not Impaired	
South Miami-Dade County	3295	C-100	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Silver	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Alkalinity	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Arsenic	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Beta BHC	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Beryllium	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3295	C-100	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Cadmium	Not Impaired	
South Miami-Dade County	3295	C-100	STREAM		Chlorodibromomet hane	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Chlorophyll	Not Impaired	
South Miami-Dade County	3295	C-100	STREAM		Cyanide	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Conductance	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Copper	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		DDT	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Dieldrin	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Dissolved Oxygen	Planning	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3295	C-100	STREAM		Endosulfan	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Endrin	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Fluoride	Not Impaired	
South Miami-Dade County	3295	C-100	STREAM		Fecal Coliforms	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Fluorene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Heptachlor	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Mercury	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Lindane	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Lead	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Antimony	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3295	C-100	STREAM		Selenium	Planning	
South Miami-Dade County	3295	C-100	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Total Coliform	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Turbidity	Insufficient Data	
South Miami-Dade County	3295	C-100	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3295	C-100	STREAM		pH	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Anthracene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Silver	Planning	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Aldrin	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Acenaphthene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Arsenic	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Beryllium	Planning	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Bromoform	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Benzene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Cadmium	Not Impaired	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Chlordane	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Chlorodibromomethane	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Chloroform	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Cyanide	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Conductance	Not Impaired	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Chlorophenol	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Chromium3	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Copper	Not Impaired	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		2,4-Dichlorophenol	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		DDT	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Dieldrin	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		2,4-Dinitrophenol	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Dissolved Oxygen	Planning	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Endrin	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Fluoride	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Fluoranthene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Guthion	Planning	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Heptachlor	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Mercury	Planning	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Lindane	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Malathion	Planning	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Methoxychlor	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Nickel	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Oil/Grease	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Lead	Not Impaired	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Phenol	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Pyrene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Antimony	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Selenium	Planning	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Total Coliform	Not Impaired	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Thallium	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Toxaphene	Insufficient Data	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Turbidity	Not Impaired	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		Zinc	Not Impaired	
South Miami-Dade County	3295A	CROSSING LAKE	LAKE		pH	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Silver	Planning	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Alkalinity	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Arsenic	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Beta BHC	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Beryllium	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Cadmium	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Chlordane	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Chlorodibromomet hane	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Chlorophyll	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Cyanide	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Conductance	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Copper	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		DDT	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Dieldrin	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Dissolved Oxygen	Planning	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Endosulfan	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Endrin	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Fluoride	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Iron	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Fluorene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Guthion	Planning	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Heptachlor	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Mercury	Planning	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Historic Chlorophyll	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Lindane	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Malathion	Planning	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Methoxychlor	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Lead	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Selenium	Planning	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Total Coliform	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Toxaphene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Unionized Ammonia	Insufficient Data	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM		pH	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		Cadmium	Insufficient Data	
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		Copper	Insufficient Data	
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		Dissolved Oxygen	Impaired	
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		Lead	Insufficient Data	
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		Total Coliform	Not Impaired	
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		Turbidity	Not Impaired	
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		Zinc	Insufficient Data	
South Miami-Dade County	3298	BLACK CREEK	ESTUARY		pH	Not Impaired	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Silver	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Alkalinity	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Arsenic	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Beryllium	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Cadmium	Not Impaired	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Chlordane	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Chlorodibromomet hane	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Cyanide	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Conductance	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Copper	Not Impaired	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		DDT	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Dieldrin	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		24Dinitrophenol	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Dissolved Oxygen	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Endrin	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Fluoride	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Fecal Coliforms	Impaired	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Fluorene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Guthion	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Heptachlor	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Mercury	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Lindane	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Malathion	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Methoxychlor	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Lead	Not Impaired	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Pentachlorophenol	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Selenium	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Total Coliform	Not Impaired	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Toxaphene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Unionized Ammonia	Planning	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3298A	GOULDS CANAL	STREAM		pH	Not Impaired	
South Miami-Dade County	3298B	DA-4	ESTUARY		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Anthracene	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Aldrin	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3298B	DA-4	ESTUARY		Acenaphthene	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Arsenic	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Beryllium	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Bromoform	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Benzene	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Cadmium	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Chlorodibromomet hane	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Chloroform	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Chlorophyll	Not Impaired	
South Miami-Dade County	3298B	DA-4	ESTUARY		Cyanide	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Chlorophenol	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Copper	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		DDT	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Dieldrin	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Dissolved Oxygen	Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3298B	DA-4	ESTUARY		Endrin	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Fluoride	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3298B	DA-4	ESTUARY		Fluoranthene	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Heptachlor	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Mercury	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Lindane	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Nickel	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Oil/Grease	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Lead	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Phenol	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Pyrene	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Antimony	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Selenium	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		1122Tetrachloroethane	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3298B	DA-4	ESTUARY		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Total Coliform	Not Impaired	
South Miami-Dade County	3298B	DA-4	ESTUARY		Thallium	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		Turbidity	Not Impaired	
South Miami-Dade County	3298B	DA-4	ESTUARY		Zinc	Insufficient Data	
South Miami-Dade County	3298B	DA-4	ESTUARY		pH	Not Impaired	
South Miami-Dade County	3299	C-111	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Silver	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Arsenic	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Beryllium	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Cadmium	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Chlorodibromomethane	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Chloroform	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3299	C-111	STREAM		Cyanide	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Conductance	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Copper	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Dissolved Oxygen	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Fluoride	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Mercury	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Lead	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Pentachlorophenol	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3299	C-111	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Selenium	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		Zinc	Insufficient Data	
South Miami-Dade County	3299	C-111	STREAM		pH	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Silver	Planning	
South Miami-Dade County	3300	C-102	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Alkalinity	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Arsenic	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Beta BHC	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3300	C-102	STREAM		Beryllium	Planning	
South Miami-Dade County	3300	C-102	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Cadmium	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Chlordane	Planning	
South Miami-Dade County	3300	C-102	STREAM		Chlorodibromomethane	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Chlorophyll	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Cyanide	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Conductance	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Copper	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		2,4-Dichlorophenol	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		DDT	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3300	C-102	STREAM		Dieldrin	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Dissolved Oxygen	Impaired	
South Miami-Dade County	3300	C-102	STREAM		Endosulfan	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Endrin	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Fluoride	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Fluorene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Guthion	Planning	
South Miami-Dade County	3300	C-102	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Heptachlor	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Mercury	Planning	
South Miami-Dade County	3300	C-102	STREAM		Lindane	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Malathion	Planning	
South Miami-Dade County	3300	C-102	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Methoxychlor	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Nickel	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3300	C-102	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Lead	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Selenium	Planning	
South Miami-Dade County	3300	C-102	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Total Coliform	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Toxaphene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3300	C-102	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3300	C-102	STREAM		pH	Not Impaired	
South Miami-Dade County	3301	C-111	STREAM			No Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		246 Trichlorophenol	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Silver	Planning	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Alkalinity	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Arsenic	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Beta BHC	Planning	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Berylium	Planning	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Cadmium	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Chlordane	Planning	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Chlorodibromomet hane	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Chlorophyll	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Cyanide	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Conductance	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Copper	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		DDT	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Dieldrin	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Dissolved Oxygen	Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Endosulfan	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Endrin	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Fluoride	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Fluorene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Guthion	Planning	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Heptachlor	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Mercury	Planning	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Lindane	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Malathion	Planning	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Methoxychlor	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Lead	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Selenium	Planning	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Total Coliform	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Toxaphene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM		pH	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Anthracene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Silver	Planning	
South Miami-Dade County	3303	C-111 Canal	CANAL		Aldrin	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Alkalinity	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Acenaphthene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Arsenic	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Beta BHC	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Beryllium	Planning	
South Miami-Dade County	3303	C-111 Canal	CANAL		Bromoform	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Cadmium	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Chlordane	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3303	C-111 Canal	CANAL		Chloroform	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Chlorophyll	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Conductance	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Chlorophenol	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Chromium3	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Copper	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Demeton	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Dieldrin	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL	Dissolved Oxygen	Dissolved Oxygen	Planning	2011
South Miami-Dade County	3303	C-111 Canal	CANAL		Endosulfan	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Endrin	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Iron	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3303	C-111 Canal	CANAL		Fluoranthene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Fluorene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Guthion	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Heptachlor	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Mercury	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Historic Chlorophyll	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Lindane	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Malathion	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Mirex	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Methoxychlor	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Nickel	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Lead	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Phenol	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Pyrene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Antimony	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3303	C-111 Canal	CANAL		Selenium	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Total Coliform	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Thallium	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Toxaphene	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3303	C-111 Canal	CANAL		Turbidity	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Unionized Ammonia	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		Zinc	Not Impaired	
South Miami-Dade County	3303	C-111 Canal	CANAL		pH	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Aldrin	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Alkalinity	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Arsenic	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3303A	C-113	STREAM		Beta BHC	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Cadmium	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Chlordane	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Chlorophyll	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Conductance	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Copper	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Demeton	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Dieldrin	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM	Dissolved Oxygen	Dissolved Oxygen	Impaired	2011
South Miami-Dade County	3303A	C-113	STREAM		Endosulfan	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3303A	C-113	STREAM		Endrin	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Iron	Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Fluorene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Guthion	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Heptachlor	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Mercury	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Historic Chlorophyll	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Lindane	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Malathion	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Mirex	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Methoxychlor	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Lead	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Pyrene	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3303A	C-113	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Toxaphene	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3303A	C-113	STREAM		Unionized Ammonia	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		Zinc	Insufficient Data	
South Miami-Dade County	3303A	C-113	STREAM		pH	Not Impaired	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Chlorophyll	Not Impaired	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Conductance	Planning	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Copper	Insufficient Data	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Dissolved Oxygen	Impaired	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Historic Chlorophyll	Not Impaired	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Lead	Insufficient Data	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Total Coliform	Not Impaired	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Turbidity	Not Impaired	
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		Zinc	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY		pH	Not Impaired	
South Miami-Dade County	3304	HOMESTEAD	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Silver	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Alkalinity	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Arsenic	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Beryllium	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM	Cadmium	Cadmium	Not Impaired	2010
South Miami-Dade County	3304	HOMESTEAD	STREAM		Chlordane	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Chlorodibromomethane	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Methylene Chloride	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Cyanide	Planning	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3304	HOMESTEAD	STREAM		Conductance	Not Impaired	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM	Copper	Copper	Not Impaired	2010
South Miami-Dade County	3304	HOMESTEAD	STREAM		Dichloroethylene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		DDT	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Dieldrin	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Dissolved Oxygen	Impaired	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Endrin	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Fluoride	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Fluorene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Guthion	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Hexachlorobutadiene	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3304	HOMESTEAD	STREAM		Heptachlor	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Mercury	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Lindane	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Malathion	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Methoxychlor	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM	Lead	Lead	Not Impaired	2010
South Miami-Dade County	3304	HOMESTEAD	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Selenium	Planning	
South Miami-Dade County	3304	HOMESTEAD	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Total Coliform	Not Impaired	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Thallium	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3304	HOMESTEAD	STREAM		Toxaphene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Trichlorethylene	Insufficient Data	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3304	HOMESTEAD	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3304	HOMESTEAD	STREAM		pH	Not Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Silver	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Arsenic	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Beryllium	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Cadmium	Not Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Chlordane	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Chlorodibromomet hane	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3305	NORTH CANAL	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Chlorophyll	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Cyanide	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Conductance	Not Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Copper	Not Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		DDT	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Dieldrin	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Dissolved Oxygen	Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Endrin	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Fluoride	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Guthion	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3305	NORTH CANAL	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Heptachlor	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Mercury	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Lindane	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Malathion	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Methoxychlor	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Lead	Not Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Selenium	Planning	
South Miami-Dade County	3305	NORTH CANAL	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Total Coliform	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3305	NORTH CANAL	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Toxaphene	Insufficient Data	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3305	NORTH CANAL	STREAM		pH	Not Impaired	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		246 Trichlorophenol	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		24Dinitrotoluene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Anthracene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Silver	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Aldrin	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Acenaphthene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Arsenic	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Beryllium	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Bromoform	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Benzene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Cadmium	Not Impaired	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Chlordane	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Chlorodibromomethane	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Chloroform	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Chlorophyll	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Cyanide	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Conductance	Not Impaired	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Chlorophenol	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Chromium3	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Carbon Tetrachloride	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Copper	Not Impaired	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		24Dichlorophenol	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		DDT	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Dieldrin	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		24Dinitrophenol	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Dissolved Oxygen	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Endrin	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Fluoride	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Fecal Coliforms	Not Impaired	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Fluoranthene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Guthion	Planning	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Hexachlorobutadiene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Heptachlor	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Mercury	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Lindane	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Malathion	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Methyl Chloride	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Methoxychlor	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Nickel	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Oil/Grease	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Lead	Not Impaired	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Pentachlorophenol	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Phenol	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Pyrene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Antimony	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Selenium	Planning	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		1122Tetrachloroethane	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Tetrachloroethylene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Total Coliform	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Thallium	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Toxaphene	Insufficient Data	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Turbidity	Not Impaired	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		Zinc	Not Impaired	
South Miami-Dade County	3306	FLORIDA CITY	STREAM		pH	Not Impaired	
South Miami-Dade County	3307	Model LAND	STREAM			No Data	
Biscayne Bay Intercoastal							
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		Arsenic	Insufficient Data	
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		Copper	Insufficient Data	
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	Dissolved Oxygen	Dissolved Oxygen	Not Impaired	2010
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	Fecal Coliforms	Fecal Coliforms	Not Impaired	2010
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		Iron	Insufficient Data	
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		Historic Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		Total Coliform	Not Impaired	
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		Zinc	Not Impaired	
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY		pH	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	3226GB	GEORGE ENGLISH PARK	COASTAL		Fecal Coliforms	Impaired	
Biscayne Bay Intercoastal	3226GB	GEORGE ENGLISH PARK	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		246 Trichlorophenol	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		24Dinitrotoluene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Anthracene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Aldrin	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Acenaphthene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Arsenic	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Berylium	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Bromoform	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Benzene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Cadmium	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Chlordane	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Chlorodibromomet hane	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Chloroform	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Cyanide	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Chlorophenol	Insufficient Data	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Carbon Tetrachloride	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Copper	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		24Dichlorophenol	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		DDT	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Dieldrin	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		24Dinitrophenol	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Dissolved Oxygen	Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Endrin	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Fluoride	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Fecal Coliforms	Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Fluoranthene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Guthion	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Hexachlorobutadiene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Heptachlor	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Mercury	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Historic Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Lindane	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Malathion	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Methyl Chloride	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Methoxychlor	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Nickel	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Oil/Grease	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Lead	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Pentachlorophenol	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Phenol	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Pyrene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Antimony	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Selenium	Planning	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		1122Tetrachloroethane	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Tetrachloroethylene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Total Coliform	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Thallium	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Toxaphene	Insufficient Data	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		Zinc	Not Impaired	
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY		pH	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Arsenic	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Berylium	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Cadmium	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Cyanide	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Copper	Planning	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Dissolved Oxygen	Not Impaired	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Fluoride	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Mercury	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Historic Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Nickel	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Lead	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Antimony	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Selenium	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Total Coliform	Not Impaired	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Thallium	Not Impaired	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Turbidity	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		Zinc	Insufficient Data	
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY		pH	Not Impaired	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Cadmium	Insufficient Data	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Copper	Insufficient Data	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Dissolved Oxygen	Not Impaired	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Historic Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Lead	Insufficient Data	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Total Coliform	Not Impaired	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		Zinc	Insufficient Data	
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY		pH	Not Impaired	
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		Cadmium	Insufficient Data	
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		Copper	Not Impaired	
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		Dissolved Oxygen	Not Impaired	
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		Fecal Coliforms	Impaired	
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		Lead	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		Total Coliform	Not Impaired	
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		Zinc	Not Impaired	
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY		pH	Not Impaired	
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL		Arsenic	Insufficient Data	
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL		Dissolved Oxygen	Not Impaired	
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL		Historic Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	3226I	CULVERT IN WEST LAKE V	LAKE		Conductance	Insufficient Data	
Biscayne Bay Intercoastal	3226I	CULVERT IN WEST LAKE V	LAKE		Dissolved Oxygen	Insufficient Data	
Biscayne Bay Intercoastal	3226I	CULVERT IN WEST LAKE V	LAKE		Turbidity	Insufficient Data	
Biscayne Bay Intercoastal	3226I	CULVERT IN WEST LAKE V	LAKE		pH	Insufficient Data	
Biscayne Bay Intercoastal	3226J	HIGHLANDS LAKE	LAKE		Chlorophyll	Insufficient Data	
Biscayne Bay Intercoastal	3226J	HIGHLANDS LAKE	LAKE		TSI	Not Impaired	
Biscayne Bay Intercoastal	3226K	SKY LAKE	LAKE		Chlorophyll	Insufficient Data	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	3226K	SKY LAKE	LAKE		TSI	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		246 Trichlorophenol	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		24Dinitrotoluene	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Anthracene	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Aldrin	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Acenaphthene	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Arsenic	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Berylium	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Bromoform	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Benzene	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Cadmium	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Chlorodibromomet hane	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Chloroform	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Cyanide	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Chlorophenol	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Carbon Tetrachloride	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Copper	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		24Dichlorophenol	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		DDT	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Dieldrin	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		24Dinitrophenol	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Dissolved Oxygen	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Endrin	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Fluoride	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Fluoranthene	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Hexachlorobutadiene	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Heptachlor	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Mercury	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Historic Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Lindane	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Methyl Chloride	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Nickel	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Oil/Grease	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Lead	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Pentachlorophenol	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Phenol	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Pyrene	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Antimony	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Selenium	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		1122Tetrachloroethane	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Tetrachloroethylene	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Total Coliform	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Thallium	Insufficient Data	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		Zinc	Not Impaired	
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY		pH	Not Impaired	
Biscayne Bay Intercoastal	6001B	HOBE BEACH	COASTAL		Fecal Coliforms	Insufficient Data	
Biscayne Bay Intercoastal	6001B	HOBE BEACH	COASTAL		Mercury - Fish	Planning	
Biscayne Bay Intercoastal	8089	BISCAYNE BAY OCEAN 1	COASTAL		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	8089	BISCAYNE BAY OCEAN 1	COASTAL		Dissolved Oxygen	Not Impaired	
Biscayne Bay Intercoastal	8089	BISCAYNE BAY OCEAN 1	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8089	BISCAYNE BAY OCEAN 1	COASTAL		Turbidity	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	8090	BISCAYNE BAY OCEAN 2	COASTAL		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	8090	BISCAYNE BAY OCEAN 2	COASTAL		Dissolved Oxygen	Not Impaired	
Biscayne Bay Intercoastal	8090	BISCAYNE BAY OCEAN 2	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8090	BISCAYNE BAY OCEAN 2	COASTAL		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	8091	BISCAYNE BAY OCEAN 3	COASTAL		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	8091	BISCAYNE BAY OCEAN 3	COASTAL		Dissolved Oxygen	Not Impaired	
Biscayne Bay Intercoastal	8091	BISCAYNE BAY OCEAN 3	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8091	BISCAYNE BAY OCEAN 3	COASTAL		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	8091A	CAPE FLORIDA PARK	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8091A	CAPE FLORIDA PARK	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8091B	KEY BISCAYNE BEACH	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8091C	CRANDON PARK - KEY BISCAYNE	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8091C	CRANDON PARK - KEY BISCAYNE	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8091D	VIRGINIA BEACH	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8091D	VIRGINIA BEACH	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL		Chlorophyll	Insufficient Data	
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8092A	SOUTH BEACH PARK	COASTAL		Fecal Coliforms	Not Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	8092A	SOUTH BEACH PARK	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8092B	COLLINS PARK - 21ST ST	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8092B	COLLINS PARK - 21ST ST	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8092C	53RD ST - MIAMI BEACH	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8092C	53RD ST - MIAMI BEACH	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8092D	NORTH SHORE OCEAN TERRACE	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8092D	NORTH SHORE OCEAN TERRACE	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8093	MIAMI-DADE COUNTY OCEAN 2	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8093A	SURFSIDE BEACH - 93RD ST	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8093A	SURFSIDE BEACH - 93RD ST	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8093B	HAULOVER BEACH	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8093B	HAULOVER BEACH	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8093C	GILBERT SAMPSON PARK - 163RD ST	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8093D	GOLDEN BEACH	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8093D	GOLDEN BEACH	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Copper	Insufficient Data	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Dissolved Oxygen	Not Impaired	

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Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Iron	Insufficient Data	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Historic Chlorophyll	Not Impaired	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Total Coliform	Not Impaired	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Turbidity	Not Impaired	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		Zinc	Insufficient Data	
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL		pH	Not Impaired	
Biscayne Bay Intercoastal	8094	MIAMI-DADE COUNTY OCEAN 3	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8094A	VAN BUREN ST	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8094A	VAN BUREN ST	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8094B	HARRISON STREET	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8094C	MINNESOTA STREET	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8094C	MINNESOTA STREET	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8094D	NORTH BEACH PARK INTRACOASTAL	COASTAL		Chlorophyll	Insufficient Data	
Biscayne Bay Intercoastal	8094D	NORTH BEACH PARK INTRACOASTAL	COASTAL		Dissolved Oxygen	Insufficient Data	
Biscayne Bay Intercoastal	8094D	NORTH BEACH PARK INTRACOASTAL	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8094D	NORTH BEACH PARK INTRACOASTAL	COASTAL		Mercury - Fish	Impaired	

Planning Unit	WBID	Water Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Projected Year for TMDL Development
Biscayne Bay Intercoastal	8094D	NORTH BEACH PARK INTRACOASTAL	COASTAL		Turbidity	Insufficient Data	
Biscayne Bay Intercoastal	8094D	NORTH BEACH PARK INTRACOASTAL	COASTAL		pH	Insufficient Data	
Biscayne Bay Intercoastal	8094E	JOHN LLOYD PARK	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8094E	JOHN LLOYD PARK	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8094F	BAHIA MAR	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8094F	BAHIA MAR	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8095	MIAMI-DADE COUNTY OCEAN 4	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8095A	BIRCH STATE PARK	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8095A	BIRCH STATE PARK	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8095B	OAKLAND PARK BLVD	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8095B	OAKLAND PARK BLVD	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8095C	COMMERCIAL BLVD PIER	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8095C	COMMERCIAL BLVD PIER	COASTAL		Mercury - Fish	Impaired	
Biscayne Bay Intercoastal	8095D	POMPANO BEACH PIER	COASTAL		Fecal Coliforms	Not Impaired	
Biscayne Bay Intercoastal	8095D	POMPANO BEACH PIER	COASTAL		Mercury - Fish	Impaired	

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Table E.2: Water Quality Monitoring Stations, by Planning Unit

Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY	3M	21FLDADESK01		1998	2003	1309
Biscayne Bay Intercoastal	3226H1	NORTH DADE ICWW	ESTUARY	3M	21FLDADEBB02	Oleta River. Mouth of Oleata River at Intracoastal Waterway	1998	2003	1475
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY	3M	21FLDADEBB04	Biscayne Bay. Intracoastal waterway at red marker No. 4	1998	2003	1299
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY	3M	21FLDADEBB07	Biscayne Bay. Intracoastal Waterway at red marker No. 8	1998	2003	1229
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY	3M	21FLDADEBB06	Biscayne Bay. Intracoastal Waterway at red marker No. 8	1998	2003	1346
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY	3M	21FLDADEBB05A	Biscayne Bay. Biscayne Bay adjacent of Munisport landfill	1998	2003	1085
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY	3M	21FLDADEBB03	Oleta River. Mouth of Oleta River at ICCW	1998	2003	1197
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY	3M	21FLDADEAC01	Arch Creek. NE 26 Ave./NE 125 St. Mouth of New Arch Creek	1998	2003	1330
Biscayne Bay Intercoastal	3226H2	HAULOVER INLET/ARCH CREEK	ESTUARY	3M	21FLDADEAC02	Arch Creek. NE 26 Ave./NE 125 St. Mouth of New Arch Creek	1998	2003	1336
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY	3M	21FLDADEM01	Military Canal.	1998	2003	1390
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY	3M	21FLDADEBB22	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1382
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY	3M	21FLDADEBB23	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1211
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY	3M	21FLDADEBB19	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1215
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY	3M	21FLDADEBB24	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1207

Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY	3M	21FLDADEBB25	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1206
Biscayne Bay Intercoastal	3226H3	PORT OF MIAMI	ESTUARY	3M	21FLDADEBB26	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1198
Biscayne Bay Intercoastal	8091B	KEY BISCAYNE BEACH	COASTAL	3M	21FLDOH DADE73	KEY BISCAYNE BEACH	2000	2003	127
Biscayne Bay Intercoastal	8094B	HARRISON STREET	COASTAL	3M	21FLDOH BROWARD37	HARRISON STREET	2000	2003	129
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW108	CENTER OF SOUTH HALF OF RIO GRANDE	1998	1998	6
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW107	CENTER OF NORTH HALF OF RIO GRANDE	1998	1998	6
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW10	E SUNRISE BLVD - MIDDLE RIVER	1998	2003	379
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW40	SHERIDAN STREET AT ICW	1998	2003	377
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW47	200' W OF ICW ON THE DANIA CUTOFF CANAL	1998	2003	362
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW38	17TH STREET AT ICW	1998	2003	360
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW24	US 1 BRIDGE OVER DANIA CUTOFF CANAL	1998	2003	368
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW15	ANDREWS AVE BRIDGE - NEW RIVER	1998	2003	371
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLSFWMBB01	BISCAYNE WATER QUALITY STATIONS	1998	2001	486
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW35	NE 14TH STREET; POMPARO; AT ICW	1998	2003	365
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW36	COMMERCIAL BLVD AT ICW	1998	2003	372
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLDOH BROWARD375	DANIA BEACH	2003	2003	13
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW39	100 YDS N OF MARKER #35 ON ICW	1998	2003	362

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Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW37	SUNRISE BLVD AT ICW	1998	2003	370
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW49	LAS OLAS ISLE BRIDGE OVER SOSPIRO CANAL	1998	2003	374
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLWPB 28030501	CYPRS CR CNL US1 POMPANO BEACH	2001	2002	41
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW87	RIO GRANDE AT LAS OLAS BLVD.	1998	1998	6
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW91	CENTER AND MID-POINT OF LAKE KAREN; LAS OLAS	1998	1998	8
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW55	RIO BARCELONA AT MIDDLE RIVER	1998	1998	8
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW5	FEDERAL HIGHWAY (US 1) - POMPANO CANAL	1998	2003	386
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW57	CENTER AND MIDPOINT OF GLABREA VILLEA	1998	1998	8
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW71	RIO GRANDE AND RIO BARCELONA	1998	1998	6
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW60	CENTER AND MIDPOINT OF RIO GRANDE	1998	1998	17
Biscayne Bay Intercoastal	3226G	ICCW AB DADE CO.	ESTUARY	3M	21FLBROW62	RIO NAVARRO AT LAKE STRANHAN	1998	1998	8
Biscayne Bay Intercoastal	3226GB	GEORGE ENGLISH PARK	COASTAL	3M	21FLDOH BROWARD31	GEORGE ENGLISH PARK	2000	2003	123
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD1-276	Miami-Dade-DAD1-276	2001	2001	3
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD1-212	Miami-Dade-DAD1-212	2001	2001	3
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB14	Biscayne Bay. Biscayne Bay in ICWW at red marker No. 18	1998	2003	1375
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLFMRILKW200027	Lake Worth - Biscayne Creek	2000	2000	13
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD1-192	Miami-Dade-DAD1-192	2001	2001	4
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLFMRILKW200026	Lake Worth - ICW #3	2000	2000	13

Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB10	Biscayne Bay. Biscayne Bay in ICWW at red marker No. 18	1998	2003	1293
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEOL03	Oleta River. NW 26 Ave./NE 203 St.	1998	2003	1702
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEL05	Little River Canal (C-7). NW 22 Ave./NW 105 Terr.	2000	2003	785
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEL03		1998	2003	1325
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEL01		1998	2003	1411
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBS01	Black Creek Canal (C-1).	1998	2003	1413
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB28	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 71	1998	2003	1237
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB18	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1201
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB17	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1456
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB15	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 39	1998	2003	1233
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB16	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 45	1998	2003	1195
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB11	Biscayne Bay. Biscayne Bay in ICWW at red marker No. 18	1998	2003	1236
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLDADEBB09	Biscayne Bay. Biscayne Bay in ICWW at red marker No. 18	1998	2003	1449
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD2-053	Miami-Dade-DAD2-053	2001	2001	3
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB24	BISCAYNE WATER QUALITY STATIONS	1998	2001	499
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB10	BISCAYNE WATER QUALITY STATIONS	1998	2001	535
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB16	BISCAYNE WATER QUALITY STATIONS	1998	2001	514

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Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD2-049	Miami-Dade-DAD2-049	2001	2001	3
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMAC01	BISCAYNE WATER QUALITY STATIONS	1998	2001	603
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD2-050	Miami-Dade-DAD2-050	2001	2001	3
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB15	BISCAYNE WATER QUALITY STATIONS	1998	2001	511
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB14	BISCAYNE WATER QUALITY STATIONS	1998	2001	570
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB18	BISCAYNE WATER QUALITY STATIONS	1998	2001	509
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMB01	BISCAYNE WATER QUALITY STATIONS	1998	2001	607
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB02	BISCAYNE WATER QUALITY STATIONS	1998	2001	611
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMAC02	BISCAYNE WATER QUALITY STATIONS	1998	2001	606
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMSK01	BISCAYNE WATER QUALITY STATIONS	1998	2001	543
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	112WRD 254943080121501	F - 45	1998	2002	108
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB11	BISCAYNE WATER QUALITY STATIONS	1998	2001	499
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBISC131	BISCAYNE BAY N. Venetian Basi	1998	2001	769
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBISC132	BISCAYNE BAY N. I-195 Basin	1998	2001	763
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB09	BISCAYNE WATER QUALITY STATIONS	1998	2001	603
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB25	BISCAYNE WATER QUALITY STATIONS	1998	2001	514
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBISC133	BISCAYNE BAY N. Normandy Isle	1998	2001	771
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD3-269	Miami-Dade-DAD3-269	2001	2001	4

Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD3-310	Miami-Dade-DAD3-310	2001	2001	3
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLKWATMIA-DAD3-483	Miami-Dade-DAD3-483	2001	2001	3
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB03	BISCAYNE WATER QUALITY STATIONS	1998	2001	478
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB04	BISCAYNE WATER QUALITY STATIONS	1998	2001	532
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB05A	BISCAYNE WATER QUALITY STATIONS	2000	2001	205
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB23	BISCAYNE WATER QUALITY STATIONS	1998	2001	499
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB17	BISCAYNE WATER QUALITY STATIONS	1998	2001	620
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMLR01	BISCAYNE WATER QUALITY STATIONS	1998	2001	604
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMOL03	BISCAYNE WATER QUALITY STATIONS	2000	2001	249
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB06	BISCAYNE WATER QUALITY STATIONS	1998	2001	548
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB07	BISCAYNE WATER QUALITY STATIONS	1998	2001	509
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB19	BISCAYNE WATER QUALITY STATIONS	1998	2001	507
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMLR03	BISCAYNE WATER QUALITY STATIONS	1998	2001	574
Biscayne Bay Intercoastal	3226H	ICCW DADE CO.	ESTUARY	3M	21FLSFWMBB28	BISCAYNE WATER QUALITY STATIONS	1998	2001	515
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL	3M	21FLSFWMBISC134	BISCAYNE BAY Oleta River Par	1998	2001	782
Biscayne Bay Intercoastal	3226HB	OLETA STATE PARK	COASTAL	3M	21FLDOH DADE63	OLETA STATE PARK	2000	2003	129
Biscayne Bay Intercoastal	3226I	CULVERT IN WEST LAKE V	LAKE	3F	21FLFMRILKW200024	Lake Worth - West Lake	2000	2000	18
Biscayne Bay Intercoastal	3226J	HIGHLANDS LAKE	LAKE	3F	21FLKWATMIA-HIGHLAND-1	Miami-Dade-Highland-1	2000	2002	109

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Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Biscayne Bay Intercoastal	3226J	HIGHLANDS LAKE	LAKE	3F	21FLKWATMIA-HIGHLAND-2	Miami-Dade-Highland-2	2000	2002	107
Biscayne Bay Intercoastal	3226J	HIGHLANDS LAKE	LAKE	3F	21FLKWATMIA-HIGHLAND-3	Miami-Dade-Highland-3	2000	2002	105
Biscayne Bay Intercoastal	3226K	SKY LAKE	LAKE	3F	21FLKWATMIA-SKY-1	Miami-Dade-Sky-1	2000	2002	105
Biscayne Bay Intercoastal	3226K	SKY LAKE	LAKE	3F	21FLKWATMIA-SKY-2	Miami-Dade-Sky-2	2000	2002	105
Biscayne Bay Intercoastal	3226K	SKY LAKE	LAKE	3F	21FLKWATMIA-SKY-3	Miami-Dade-Sky-3	2000	2002	105
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB27	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 71	1998	2003	1346
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC130	BISCAYNE BAY S. Dodge Island	1998	2001	771
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB29	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 71	1998	2003	1289
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBL01	BISCAYNE WATER QUALITY STATIONS	1998	2001	620
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB31	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 71	1998	2003	1294
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB41	Biscayne Bay.	1998	2003	1227
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEMI01	Military Canal.	1998	2003	1519
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEPR01	Oleta River. NW 26 Ave./NE 203 St.	1998	2003	1356
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC116	DERM-BB44 FIU-44 R 8 LIGHT	1998	2001	778
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB34	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 71	1998	2003	1224
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB35	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 71	1998	2003	1222
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB36	Biscayne Bay. Biscayne Bay at mid bay red marker No. 2	1998	2003	1227

Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB37	Biscayne Bay. Biscayne Bay at mid bay red marker No. 2	1998	2003	1216
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB38	Biscayne Bay. Biscayne Bay at mid bay red marker No. 2	1998	2003	1340
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB42	Biscayne Bay.	1998	1998	216
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB44	Biscayne Bay. Biscayne Bay in ICWW at red marker No. 8	1998	2003	1218
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB45	Biscayne Bay. Biscayne Bay in ICWW at red marker No. 8	1998	2003	1108
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC123	G 1 LIGHT	1998	2001	776
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC127	BISCAYNE BAY Shoal Point	1998	2001	776
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADEBB32	Biscayne Bay. Biscayne Bay in ICWW at green marker No. 71	1998	2003	1294
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC126	BISCAYNE BAY BNP Marker	1998	2001	776
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADECD01A	Cutler Drain Canal.	1998	2003	1222
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLDADECG01	Cutler Drain (C-100).	1998	2003	1408
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC128	BISCAYNE BAY Matheson Beach	1998	2001	777
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040415	BISCAYNE BAY STATION MW2.4	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040414	BISCAYNE BAY STATION MW2.3	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040413	BISCAYNE BAY STATION MW2.2	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040412	Biscayne Bay Station MW2.1	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMMI01	BISCAYNE WATER QUALITY STATIONS	2000	2001	300
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040418	BISCAYNE BAY STATION MW2.7	2003	2003	12

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Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040429	BISCAYNE BAY STATION CTRL2.6	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040434	BISCAYNE BAY STATION SC9	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040433	BISCAYNE BAY STATION SC7	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040432	BISCAYNE BAY STATION SC5	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040416	BISCAYNE BAY STAION MW2.5	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040430	BISCAYNE BAY STATION SC1	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040417	BISCAYNE BAY STATION MW2.6	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040428	BISCAYNE BAY STATION CTRL2.5	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040427	BISCAYNE BAY STATION CTRL2.4	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040426	BISCAYNE BAY STATION CTRL2.3	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040425	BISCANYE BNAY STATION CTRL2.2	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040424	BISCAYEN BAY STATION CTRL2.1	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040423	BISCAYNE BAY STATION MW2.12	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040422	BISCAYNE BAY STATION MW 2.11	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040421	BISCAYNE BAY STATION MW2.10	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040420	BISCAYNE BAY STATION 2.9	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040419	BISCAYNE BAY STATIONMW2.8	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040431	BISCAYNE BAY STATION SC3	2003	2003	12

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Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMMR01	BISCAYNE WATER QUALITY STATIONS	1998	2001	612
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMR01	BISCAYNE WATER QUALITY STATIONS	1998	2001	584
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC108	DERM-BB37 G 1B	1998	2001	764
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMCG01	BISCAYNE WATER QUALITY STATIONS	1998	2001	612
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMCD05	BISCAYNE WATER QUALITY STATIONS	2000	2001	335
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMCD01A	BISCAYNE WATER QUALITY STATIONS	2000	2001	250
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLWPB 28040435	BISCAYNE BAY STATION SC11	2003	2003	12
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLFMRISTR200021	StateNonTrend - Biscayne Bay	2000	2000	27
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-RI-SOUTH-3	Miami-Dade-Rickenbacker Causeway South-3	2000	2000	6
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-RI-SOUTH-2	Miami-Dade-Rickenbacker Causeway South-2	2000	2000	7
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-RI-SOUTH-1	Miami-Dade-Rickenbacker Causeway South-1	2000	2000	6
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLFMRISTR200117	StateNonTrend - Biscayne Bay	2001	2001	29
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-DAD9-554	Miami-Dade-DAD9-554	2001	2001	3
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-BI-ERRINE-1	Miami-Dade-Biscayne Perrine-1	2000	2000	6
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-BI-ERRINE-2	Miami-Dade-Biscayne Perrine-2	2000	2000	6
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-BI-ERRINE-3	Miami-Dade-Biscayne Perrine-3	2000	2000	6
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-BI-SCAYNE-1	Miami-Dade-Biscayne-1	2000	2002	50
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-BI-SCAYNE-2	Miami-Dade-Biscayne-2	2000	2002	50

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Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-BI-SCAYNE-3	Miami-Dade-Biscayne-3	2000	2002	50
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-DAD8-102	Miami-Dade-DAD8-102	2001	2001	3
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLFMRISTR200218	StateNonTrend - Biscayne Bay	2002	2002	13
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLFMRISTR200219	StateNonTrend - Biscayne Bay	2002	2002	13
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-DAD9-550	Miami-Dade-DAD9-550	2001	2001	3
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-DAD9-532	Miami-Dade-DAD9-532	2001	2001	3
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-DAD8-104	Miami-Dade-DAD8-104	2001	2001	3
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-DAD8-103	Miami-Dade-DAD8-103	2001	2001	3
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-DAD7-767	Miami-Dade-DAD7-767	2001	2001	3
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLKWATMIA-DAD7-766	Miami-Dade-DAD7-766	2001	2001	6
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC111	DERM-BB38 R 6 LIGHT	1998	2001	774
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC112	MARKER	1998	2001	764
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC102	BNP-15 FIU-15	1998	2001	780
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB35	BISCAYNE WATER QUALITY STATIONS	1998	2001	522
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB52	BISCAYNE WATER QUALITY STATIONS	2000	2001	228
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB39A	BISCAYNE WATER QUALITY STATIONS	2000	2001	294
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB53	BISCAYNE WATER QUALITY STATIONS	2000	2001	245
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB48	BISCAYNE WATER QUALITY STATIONS	1998	2001	452

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Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB47	BISCAYNE WATER QUALITY STATIONS	1998	2001	581
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB46	BISCAYNE WATER QUALITY STATIONS	1998	1998	108
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB45	BISCAYNE WATER QUALITY STATIONS	1998	2001	454
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB44	BISCAYNE WATER QUALITY STATIONS	1998	2001	516
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB43	BISCAYNE WATER QUALITY STATIONS	1998	1998	108
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB41	BISCAYNE WATER QUALITY STATIONS	1998	2001	501
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBISC104	DERM-BB36 Y LIGHT	1998	2001	772
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB38	BISCAYNE WATER QUALITY STATIONS	1998	2001	568
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB37	BISCAYNE WATER QUALITY STATIONS	1998	2001	510
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB36	BISCAYNE WATER QUALITY STATIONS	1998	2001	521
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB42	BISCAYNE WATER QUALITY STATIONS	1998	1998	108
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB34	BISCAYNE WATER QUALITY STATIONS	1998	2001	505
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB31	BISCAYNE WATER QUALITY STATIONS	1998	2001	550
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB29	BISCAYNE WATER QUALITY STATIONS	1998	2001	526
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB27	BISCAYNE WATER QUALITY STATIONS	1998	2001	555
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB26	BISCAYNE WATER QUALITY STATIONS	1998	2001	502
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB22	BISCAYNE WATER QUALITY STATIONS	1998	2001	594
Biscayne Bay Intercoastal	6001	BISCAYNE BAY	ESTUARY	3M	21FLSFWMBB32	BISCAYNE WATER QUALITY STATIONS	1998	2001	546

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Biscayne Bay Intercoastal	6001B	HOBE BEACH	COASTAL	3M	21FLDOH DADE71	HOBIE BEACH	2000	2003	134
Biscayne Bay Intercoastal	8091A	CAPE FLORIDA PARK	COASTAL	3M	21FLDOH DADE74	CAPE FLORIDA PARK	2000	2003	129
Biscayne Bay Intercoastal	8091C	CRANDON PARK - KEY BISCAYNE	COASTAL	3M	21FLDOH DADE72	CRANDON PARK - KEY BISCAYNE	2000	2003	131
Biscayne Bay Intercoastal	8091D	VIRGINIA BEACH	COASTAL	3M	21FLDOH DADE70	VIRGINIA BEACH	2000	2003	126
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD6-122	Miami-Dade-DAD6-122	2001	2001	3
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD6-130	Miami-Dade-DAD6-130	2001	2001	3
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD4-258	Miami-Dade-DAD4-258	2001	2001	4
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD5-049	Miami-Dade-DAD5-049	2001	2001	3
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD4-261	Miami-Dade-DAD4-261	2001	2001	3
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD6-083	Miami-Dade-DAD6-083	2001	2001	4
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD5-018	Miami-Dade-DAD5-018	2001	2001	3
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD5-048	Miami-Dade-DAD5-048	2001	2001	3
Biscayne Bay Intercoastal	8092	MIAMI-DADE COUNTY OCEAN 1	COASTAL	3M	21FLKWATMIA-DAD4-289	Miami-Dade-DAD4-289	2001	2001	3
Biscayne Bay Intercoastal	8092A	SOUTH BEACH PARK	COASTAL	3M	21FLDOH DADE69	SOUTH BEACH PARK	2000	2003	128
Biscayne Bay Intercoastal	8092B	COLLINS PARK - 21ST ST	COASTAL	3M	21FLDOH DADE68	COLLINS PARK - 21ST ST	2000	2003	130
Biscayne Bay Intercoastal	8092C	53RD ST - MIAMI BEACH	COASTAL	3M	21FLDOH DADE67	53RD ST - MIAMI BEACH	2000	2003	134

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Biscayne Bay Intercoastal	8092D	NORTH SHORE OCEAN TERRACE	COASTAL	3M	21FLDOH DADE66	NORTH SHORE OCEAN TERRACE	2000	2003	130
Biscayne Bay Intercoastal	8093A	SURFSIDE BEACH - 93RD ST	COASTAL	3M	21FLDOH DADE65	SURFSIDE BEACH - 93RD ST	2000	2003	130
Biscayne Bay Intercoastal	8093B	HAULOVER BEACH	COASTAL	3M	21FLDOH DADE64	HAULOVER BEACH	2000	2003	129
Biscayne Bay Intercoastal	8093D	GOLDEN BEACH	COASTAL	3M	21FLDOH DADE61	GOLDEN BEACH	2000	2003	128
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL	3M	21FLDOH BROWARD38	HALLANDALE BEACH BLVD	2000	2003	132
Biscayne Bay Intercoastal	8093E	HALLANDALE BEACH BLVD	COASTAL	3M	21FLBROW41	HALLANDALE BEACH BLVD AT ICW	1998	2003	383
Biscayne Bay Intercoastal	8094A	VAN BUREN ST	COASTAL	3M	21FLDOH BROWARD36	VAN BUREN ST	2000	2003	118
Biscayne Bay Intercoastal	8094C	MINNESOTA STREET	COASTAL	3M	21FLDOH BROWARD35	MINNESOTA STREET	2000	2003	130
Biscayne Bay Intercoastal	8094D	NORTH BEACH PARK INTRACOASTAL	COASTAL	3M	21FLFMRILKW200030	Lake Worth - Hollywood ICW	2000	2000	13
Biscayne Bay Intercoastal	8094D	NORTH BEACH PARK INTRACOASTAL	COASTAL	3M	21FLDOH BROWARD34	NORTH BEACH PARK INTRACOASTAL	2000	2003	119
Biscayne Bay Intercoastal	8094E	JOHN LLOYD PARK	COASTAL	3M	21FLDOH BROWARD33	JOHN LLOYD PARK	2000	2003	128
Biscayne Bay Intercoastal	8094F	BAHIA MAR	COASTAL	3M	21FLDOH BROWARD32	BAHIA MAR	2000	2003	129
Biscayne Bay Intercoastal	8095A	BIRCH STATE PARK	COASTAL	3M	21FLDOH BROWARD30	BIRCH STATE PARK	2000	2003	130
Biscayne Bay Intercoastal	8095B	OAKLAND PARK BLVD	COASTAL	3M	21FLDOH BROWARD29	OAKLAND PARK BLVD	2000	2003	130
Biscayne Bay Intercoastal	8095C	COMMERCIAL BLVD PIER	COASTAL	3M	21FLDOH BROWARD28	COMMERCIAL BLVD PIER	2000	2003	130
Biscayne Bay Intercoastal	8095D	POMPANO BEACH PIER	COASTAL	3M	21FLDOH BROWARD27	POMPANO BEACH PIER	2000	2003	132
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	21FLBROW109	Pompano Canal at Rock Island Road	1998	2003	281

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Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	21FLBROW6	DIXIE HIGHWAY BRIDGE - CYPRESS CREEK CANAL	1998	2003	358
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	112WRD 02282100	CYPRESS CREEK C AT S-37A, NR POMPANO BEACH, FLA	1998	2002	38
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	112WRD 02282101	10B CYPRESS CR CA BL S-37A NR POMPANO BCH	1998	2002	38
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	21FLWPB 28030504	CYPRS CR CNL ANDREWS AV POMP BCH	2002	2002	24
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	21FLBROW7	SOUTH PALMAIRE DRIVE - CYPRESS CREEK CANAL	1998	2003	415
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	21FLBROW8	STATE RD 7 - POMPANO CANAL	1998	1998	58
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	21FLWPB 28030503	CYPRS CR CNL-CYP CR RD POMPANO B	2001	2001	26
Broward County	3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	21FLBROW9	UNIVERSITY DRIVE - POMPANO CANAL	1998	1998	78
Broward County	3271	POMPANO CANAL	STREAM	3F	21FLWPB 28030506	POMP CNL .2 MI W POWRLN RD POMP	2002	2002	39
Broward County	3271	POMPANO CANAL	STREAM	3F	21FLBROW110	Pompano Canal at Dixie Highway	1999	2003	273
Broward County	3271	POMPANO CANAL	STREAM	3F	21FLBROW89	POMPANO CANAL @ NOB HILL ROAD	1998	2003	345
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM	3F	112WRD 02282700	MIDDLE RIVER CANAL AT S-36 NR FT LAUDERDALE, FL	1998	2002	40

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Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM	3F	21FLBROW12	NW 31ST AVE - MIDDLE RIVER	1998	2003	372
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM	3F	21FLWPB 28030585	MIDDLE RIVER CANAL AT US 441, TAMARAC	2002	2002	25
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM	3F	21FLWPB 28030631	MIDDLE RIVER CANAL @ TURNPIKE BRIDGE	2001	2001	26
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM	3F	21FLBROW13	ROCK ISLAND RD - MIDDLE RIVER	1998	2003	417
Broward County	3273	C-13 WEST/MIDDLE RIVER	STREAM	3F	21FLBROW14	UNIVERSITY DRIVE - MIDDLE RIVER	1998	2003	360
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	21FLWPB 28030632	MIDDLE RIVER CANAL @ OAKLAND PARK RD	2002	2002	23
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	21FLWPB 28030515	N FRK MIDL R ANDRW AV FT LAUDERD	2002	2002	16
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	21FLWPB 28030514	S FRK MIDL R ANDRW AV FT LAUDERD	2002	2002	20
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	21FLBROW111	S. Fork Middle River at NE 15th Ave.	2001	2003	171
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	21FLBROW112	N. Fork Middle River at NE 16th Ave.	2001	2003	170
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	112WRD 261020080091700	N FORK MIDDLE R AT NW 9 AVE (C-13F#3)	1998	2002	38
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	112WRD 261019080100600	ROYAL PALM ISLES CA (C-13F#5) SW OF 18AVE & 37ST	1998	2002	38
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	112WRD 261010080090400	N FORK MIDDLE R AT NW 34 ST (C-13F#2)	1998	2002	38
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	112WRD 261000080084900	N FORK MIDDLE RIVER AT ANDREWS AVE (C-13F#1)	1998	2002	38

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Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	112WRD 260956080094200	MIDDLE RIVER CA AT OAKLAND PK BLVD	1998	2002	38
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	21FLWPB 28030510	MIDDLE R AT SUNRISE BLV. FT LAUD	2001	2002	39
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	112WRD 02282701	MIDDLE RIVER CANAL BL S-36 NR FT LAUDERDALE, FL	1998	2002	39
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	112WRD 261019080100300	ROYAL PALM ISLES CA (C-13F#6) SE OF 18AVE & 37ST	1998	2002	38
Broward County	3274	C-13 EAST/MIDDLE RIVER	ESTUARY	3F	21FLBROW11	NW 21ST AVE BRIDGE - MIDDLE RIVER	1998	2003	353
Broward County	3276	C-12	STREAM	3F	21FLBROW17	W SIDE OF SALINITY STRUCTURE - PLANTATION CANAL	1998	2003	336
Broward County	3276	C-12	STREAM	3F	21FLBROW18	NW 9TH DRIVE - PLANTATION CANAL	1998	2003	333
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY	3M	21FLBROW20	BRADFORD MARINA DOCK - NORTH FORK NEW RIVER	1998	2003	371
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY	3M	21FLBROW16	BROWARD BLVD - NORTH FORK NEW RIVER	1998	2003	447
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY	3M	21FLBROW100	N FORK NEW RIVER AT NW 27TH AVENUE	1998	1998	391
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY	3M	21FLBROW64	NORTH NEW RIVER AT SISTRUNK BLVD	1998	2003	434
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY	3M	21FLWPB 28030582	NEW RIVER NORTH FORK AT NW 31 AVE,FT LAUDERDALE	2002	2002	24
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY	3M	21FLWPB 28030524	N FORK NEW R AT W BROW BL. FT. L	2002	2002	24
Broward County	3276A	NORTH FORK NEW RIVER	ESTUARY	3M	21FLBROW51	11TH AVE BRIDGE OVER NORTH FORK: NEW RIVER	1998	1998	8
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	112WRD 02285000	NORTH NEW RIVER CANAL NEAR FT LAUDERDALE, FL	1998	2002	38
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	112WRD 02285001	NORTH NEW RIVER CANAL BL CONTROL NR FT LAUD, FL	1998	2002	38

Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	112WRD 02285101	NORTH NEW RIVER CA AT SR7 NR FT LAUDERDALE, FL	1998	2002	38
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	21FLWPB 28030531	N NEW R CNL AT UNIV DR. PLANTATI	2001	2001	26
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	21FLSFWMNNROUTF4	OPEN CHANNEL CONNECTION INTO THE NORTH NEW RIVER C	2001	2003	95
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	21FLSFWMNNROPLA3	OLD PLANTATION WCD PUMP STATION 3 JUST NORTH OF TH	2001	2003	70
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	21FLSFWMNNROPLA2	OLD PLANTATION WCD PUMP STA. NORTH OF THE NNR ON P	2001	2003	69
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	21FLBROW21	SEWALL LOCK - NORTH NEW RIVER CANAL	1998	2003	348
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	21FLBROW22	SW 125TH AVE BRIDGE OVER NORTH NEW RIVER CANAL	1998	2003	354
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	21FLWPB 28030532	N NEW R CNL AT PINE IS RD PLNTAT	2002	2002	22
Broward County	3277	NORTH NEW RIVER CANAL	STREAM	3F	21FLBROW23	US 27 AT NORTH NEW RIVER CANAL	1998	2003	341
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY	3M	21FLBROW19	RIVER REACH CONDO - S FORK NEW RIVER	1998	2003	383
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY	3M	21FLBROW90	S FORK NEW RIVER @ FPL PLANT	1998	2003	369
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY	3M	21FLWPB 28030543	S NEW R CNL-UNIV DR. DAVIE	2002	2002	25
Broward County	3277A	SOUTH NEW RIVER CANAL	ESTUARY	3M	21FLWPB 28030521	NEW R AT ANDREWS AVE,FT LAUD.	2001	2002	47
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC11S9P3	PUMP STATION S9 REFRIGERATED AUTOSAMPLER, COLLECTE	2000	2000	24
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC11S9P2	PUMP STATION S9 REFRIGERATED AUTOSAMPLER, COLLECTE	2000	2000	149

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Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1101.0TN	UPSTREAM OF CULVERT 1.0 MILES FROM S-9 WITHIN CITY	2001	2003	116
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1101.0TS	UPSTREAM FROM CULVERT, 1.0 MILES FROM S-9 IN SOUTH	2001	2001	5
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1101.3TS	UPSTREAM FROM CULVERT, 1.3 MILES FROM S-9 IN SOUTH	2000	2001	59
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1101.5TN	UPSTREAM OF CULVERT 1.5 MILES FROM S-9 WITHIN CITY	2001	2003	116
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1100.8TS	UPSTREAM FROM CULVERT, 0.8 MILES FROM S-9 IN SOUTH	2000	2001	59
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1102.1TN	UPSTREAM OF CULVERT 2.1 MILES FROM S-9 WITHIN CITY	2000	2003	128
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1102.1TS	UPSTREAM FROM CULVERT, 2.1 MILES FROM S-9 IN SOUTH	2000	2001	19
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1105.40TN	UPSTREAM FROM CULVERT, 5.4 MILES FROM S-9 IN WCD.	2000	2001	49
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1109.00TS	UPSTREAM FROM CULVERT, 9.0 MILES FROM S-9 IN WCD.	2000	2001	49
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLBROW28	FLAMINGO ROAD AT SOUTH NEW RIVER CANAL	1998	2003	352
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLBROW29	US 27 AT SOUTH NEW RIVER CANAL	1998	2003	358
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1102.0TS	UPSTREAM FROM CULVERT, 2.0 MILES FROM S-9 IN SOUTH	2000	2001	76
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1109.00TN	UPSTREAM FROM CULVERT, 9.0 MILES FROM S-9 IN WCD.	2000	2001	49
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1107.50TS	UPSTREAM FROM CULVERT, 7.5 MILES FROM S-9 IN WCD.	2000	2001	37

Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1107.50TN	UPSTREAM FROM CULVERT 7.5 MILES FROM S-9 IN WCD. N	2000	2001	68
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1108.50TN	UPSTREAM FROM CULVERT, 8.5 MILES FROM S-9 IN WCD.	2000	2001	49
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1106.30TN	UPSTREAM FROM CULVERT, 6.3 MILES FROM S-9 IN WCD.	2000	2001	68
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1110.60TS	UPSTREAM FROM CULVERT,10.6 MILES FROM S-9 IN WCD.	2000	2001	49
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1102.8TS	UPSTREAM FROM CULVERT, 2.8 MILES FROM S-9 IN SOUTH BRO	2000	2001	94
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1103.3TS	UPSTREAM FROM CULVERT, 3.3 MILES FROM S-9 IN SOUTH	2000	2001	59
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC11S9P1	PUMP STATION S9 REFRIGERATED AUTOSAMPLER, COLLECTE	2000	2000	59
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1110.10TN	UPSTREAM FROM CULVERT,10.1 MILES FROM S-9 IN WCD.	2000	2001	56
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC111.7TN1	AT LAKE SHORE BY BUILDING NO. 9 OF FLORIDA NATURE	2001	2003	92
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1109.60TN	UPSTREAM FROM CULVERT, 9.6 MILES FROM S-9 IN WCD.	2000	2001	37
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1109.30TS	UPSTREAM FROM CULVERT, 9.3 MILES FROM S-9 IN WCD.	2000	2001	37
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1104.6TS	UPSTREAM FROM CULVERT, 4.6 MILES FROM S-9 IN SOUTH	2000	2001	40
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1104.9TS	UPSTREAM FROM CULVERT, 4.9 MILES FROM S-9 IN SOUTH	2000	2001	40
Broward County	3279	SOUTH NEW RIVER CANAL	STREAM	3F	21FLSFWMC1104.3TS	UPSTREAM FROM CULVERT, 4.3 MILES FROM S-9 IN SOUTH	2000	2001	40

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Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
Broward County	3281	C-11 EAST	STREAM	3F	21FLBROW27	FLOOD STRUCTURE @ SOUTH NEW RIVER CANAL	1998	2003	368
Broward County	3282	HOLLYWOOD CANAL	ESTUARY	3M	112WRD 260225080095800	HOLLYWOOD CANAL AT N29 AVE, HOLLYWOOD, FL	1998	2002	40
Broward County	3282	HOLLYWOOD CANAL	ESTUARY	3M	112WRD 260132080094900	HOLLYWOOD CANAL AT TAFT ST, HOLLYWOOD, FL	1998	2002	40
Broward County	3282	HOLLYWOOD CANAL	ESTUARY	3M	112WRD 260037080100700	HOLLYWOOD CANAL AT HOLLYWOOD BLVD, HOLLYWOOD, FL	1998	2002	40
Broward County	3282	HOLLYWOOD CANAL	ESTUARY	3M	112WRD 260212080112500	HOLLYWOOD CANAL AT N46 AVE, HOLLYWOOD, FL	1998	2002	40
Broward County	3282	HOLLYWOOD CANAL	ESTUARY	3M	112WRD 260104080101300	HOLLYWOOD CANAL AT JOHNSON ST, HOLLYWOOD, FL	1998	2002	40
Broward County	3282	HOLLYWOOD CANAL	ESTUARY	3M	21FLBROW25	STIRLING ROAD BRIDGE OVER HOLLYWOOD CANAL	1998	2003	388
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM	3F	21FLSFWMSK02	BISCAYNE WATER QUALITY STATIONS	1998	2001	749
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM	3F	21FLDADESK02		1998	2003	2065
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM	3F	21FLDADESK09	Snake Creek Canal (C-9).	1998	2003	2057
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM	3F	21FLWPB 28040112	SNAKE C RT 441 AND 201 ST	2001	2002	140
North Miami-Dade County	3283	SNAKE CREEK CANAL EAST	STREAM	3F	21FLWPB 28040109	SNAKE C W SALIN DAM US 1 NE 166	2001	2002	165
North Miami-Dade County	3283A	DESOTO LAKE	LAKE	3F	21FLKWATBRO-DESOTO-1	Broward-Desoto-1	2001	2001	29
North Miami-Dade County	3283A	DESOTO LAKE	LAKE	3F	21FLKWATBRO-DESOTO-2	Broward-Desoto-2	2001	2001	27
North Miami-Dade County	3283A	DESOTO LAKE	LAKE	3F	21FLKWATBRO-DESOTO-3	Broward-Desoto-3	2001	2001	28
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM	3F	21FLBROW32	US 27 BRIDGE OVER THE SNAKE CREEK CANAL	1998	2003	336
North Miami-Dade County	3284	SNAKE CREEK CANAL WEST	STREAM	3F	21FLBROW31	FLAMINGO ROAD BRIDGE OVER SNAKE CREEK CANAL	1998	2003	378

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North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	3F	21FLDADEBB54	Biscayne Bay.	2001	2003	527
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	3F	21FLDADEBS10	Biscayne Canal (C-8).	1998	2003	2092
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	3F	21FLDADEBS04	Biscayne Canal (C-8).	1998	2003	2046
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	3F	21FLDADEAC03	Arch Creek. NE 26 Ave./NE 125 St. Mouth of New Arch Creek	1998	2003	1522
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	3F	21FLWPB 28040073	C8 canal at 27th avenue.	2002	2002	5
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	3F	21FLWPB 28040072	C8 canal at 107th street (not structure)	2002	2002	5
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	3F	21FLSFWMAC03	BISCAYNE WATER QUALITY STATIONS	1998	2001	655
North Miami-Dade County	3285	C-8/BISCAYNE CANAL	STREAM	3F	21FLWPB 28040074	C8 Canal at 57th avenue	2002	2002	5
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM	3F	21FLDADETM03		1998	2003	2175
North Miami-Dade County	3286	C-4/Tamiami Canal	STREAM	3F	21FLDADETM07	Tamiami Canal (C-4).	2003	2003	28
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM	3F	21FLDADEM15	Miami Canal (C-6).	1998	2003	2293
North Miami-Dade County	3286A	C-6/Miami Canal West	STREAM	3F	21FLWPB 28040396	MIAMI CANAL AT NW116 WAY, DADE	2001	2002	157
North Miami-Dade County	3286C	SNAPPER CREEK	STREAM	3F	21FLDADESP08	Snapper Creek (C-2).	1998	2003	2194
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM	3F	21FLWPB 28040062	C7 CANAL @ E 4TH AVE AND 106TH ST	2001	2002	138
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM	3F	21FLSFWMG72	G-72 ON CANAL C-7 AT N.W. 87TH AVENUE	2000	2001	5
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM	3F	21FLDADEL10	Little River Canal (C-7). NW 72 Ave./NW 106 St.	1998	2003	2083
North Miami-Dade County	3287	C-7/LITTLE RIVER	STREAM	3F	21FLDADEL06	Little River Canal (C-7). NE 2 Ave./NE 86 St.	1998	2003	2068
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	112WRD 02288600	MIAMI CANAL AT NW36 ST, MIAMI,FL	1999	1999	33

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North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	21FLWPB 28040067	MIAMI RIVER @ MOUTH OF COMFORT CANAL	2001	2002	158
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	21FLWPB 28040066	MIAMI RIVER @US 1	2001	2001	19
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	21FLDADEM07	Military Canal.	1998	2003	1321
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	21FLDADETM02		1998	2003	1325
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	21FLDADEM06	Military Canal.	1998	2003	1387
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	21FLDADEM04	Military Canal.	1998	2003	1317
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	21FLDADEM03	Military Canal.	1998	2003	1406
North Miami-Dade County	3288	C-6/MIAMI RIVER	ESTUARY	3M	21FLDADEM02	Military Canal.	1998	2003	1332
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY	3M	21FLDADEWC04	Wagner Creek. NW 9 Ct./NW 11 St. Mouth of Seybold Canal	1998	2003	1363
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY	3M	21FLDADEWC03	Wagner Creek. NW 9 Ct./NW 11 St. Mouth of Seybold Canal	1998	2003	1295
North Miami-Dade County	3288A	WAGNER CREEK	ESTUARY	3M	21FLDADEWC02	Wagner Creek. NW 9 Ct./NW 11 St. Mouth of Seybold Canal	1998	2003	1674
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY	3F	21FLGW 3572	MR08	1998	2003	1910
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY	3F	21FLDADEM08	Military Canal.	1998	2003	2187
North Miami-Dade County	3290	C-6/Miami Canal	ESTUARY	3F	21FLWPB 28040185	COMFORT C NW 27 AV DAM W & 11 ST	2001	2001	21
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM	3F	21FLKWATMIA-PAVILLION-1	Miami-Dade-Pavillion 12-1	2001	2001	3
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM	3F	21FLWPB 28040231	CORAL GAB WW SW 67 AV APPROX 36 S	2001	2002	138
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM	3F	21FLDADECG07	Coral Gables Canal (C-3).	1998	2003	2185
North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM	3F	21FLKWATMIA-PAVILLION-2	Miami-Dade-Pavillion 12-2	2001	2001	3

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North Miami-Dade County	3292	CORAL GABLES CANAL	STREAM	3F	21FLKWATMIA-PAVILLION-3	Miami-Dade-Pavillion 12-3	2001	2001	3
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM	3F	21FLKWATMIA-SNAPPERC-1	Miami-Dade-Snapper Creek Park-1	2000	2001	31
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM	3F	21FLWPB 28040212	SNAPPER CR C 85 ST & SW 97 AVE	2001	2002	155
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM	3F	21FLKWATMIA-SNAPPERC-3	Miami-Dade-Snapper Creek Park-3	2000	2001	30
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM	3F	21FLKWATMIA-SNAPPERC-2	Miami-Dade-Snapper Creek Park-2	2000	2001	29
North Miami-Dade County	3293	C-2/SNAPPER CREEK	STREAM	3F	21FLWPB 28040207	SNAPPER CREEK C SALANITY DAM N	2001	2002	104
North Miami-Dade County	3293A	HAMMOCK LAKE WEST	LAKE	3F	21FLKWATMIA-HAMMOCK2-3	Miami-Dade-Hammock 2-3	1999	1999	4
North Miami-Dade County	3293A	HAMMOCK LAKE WEST	LAKE	3F	21FLKWATMIA-HAMMOCK2-2	Miami-Dade-Hammock 2-2	1999	1999	4
North Miami-Dade County	3293A1	HAMMOCK LAKE EAST	LAKE	3F	21FLKWATMIA-HAMMOCK1-3	Miami-Dade-Hammock 1-3	2000	2002	66
North Miami-Dade County	3293A1	HAMMOCK LAKE EAST	LAKE	3F	21FLKWATMIA-HAMMOCK2-1	Miami-Dade-Hammock 2-1	1999	1999	4
North Miami-Dade County	3293A1	HAMMOCK LAKE EAST	LAKE	3F	21FLKWATMIA-HAMMOCK1-2	Miami-Dade-Hammock 1-2	2000	2002	66
North Miami-Dade County	3293A1	HAMMOCK LAKE EAST	LAKE	3F	21FLKWATMIA-HAMMOCK1-1	Miami-Dade-Hammock 1-1	2000	2002	66
North Miami-Dade County	3293B	C2/SNAPPER CREEK EAST	ESTUARY	3M	21FLDADESP01	Snake Creek Canal (C-9).	1998	2003	1545
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL	3M	21FLDOH DADE75	MATHESON HAMMOCK	2000	2003	131
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL	3M	21FLDADEBB46	Biscayne Bay.	1998	1998	206
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL	3M	21FLDADEBB47	Biscayne Bay.	1998	2003	1363
North Miami-Dade County	6001A	MATHESON HAMMOCK	COASTAL	3M	21FLDADEBB48	Biscayne Bay.	1998	2003	1115
North Miami-Dade County	3286B	C-4/Tamiami Canal West	STREAM	3F	21FLDADETM08	Tamiami Canal (C-4).	1998	2003	2213

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Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
South Miami-Dade County	3303	C-111 Canal	CANAL	3F	21FLWPB 28040064	C111E CANAL @ INGRAHAM WAY.	2001	2002	123
South Miami-Dade County	3303	C-111 Canal	CANAL	3F	21FLSFWMS177	S-177 SPILLWAY ON CANAL C-111 NEAR FLA. HIGHWAY	1998	2003	4264
South Miami-Dade County	3303	C-111 Canal	CANAL	3F	21FLDADEAR03	Arch Creek.	1998	2003	1662
South Miami-Dade County	3303	C-111 Canal	CANAL	3F	21FLSFWMS178	S-178 CULVERT ON CANAL C-111E AT FLORIDA HIGHWAY	1998	2003	3051
South Miami-Dade County	3303	C-111 Canal	CANAL	3F	21FLWPB 28040063	C111 CANAL @INGRAHAM WAY	2001	2002	152
South Miami-Dade County	3303	C-111 Canal	CANAL	3F	21FLWPB 28040407	C-111 CANAL AT U.S.1,SOUTH DADE	2001	2002	115
South Miami-Dade County	3303A	C-113	STREAM	3F	21FLSFWMS176	FLOODGATE AT HEAD OF C113 ON C111 6 MILES WNW O	1998	2003	4949
South Miami-Dade County	3303B	C-111 Coastal	ESTUARY	3F	21FLDADEAR01	Arch Creek.	1998	2003	1511
South Miami-Dade County	3306	FLORIDA CITY	STREAM	3F	21FLDADEF03	Florida City Canal.	1998	2003	2102
South Miami-Dade County	3306	FLORIDA CITY	STREAM	3F	21FLDADEF015	Florida City Canal. SW 167 Ave./SW 344 St.	1998	2003	2233
South Miami-Dade County	3306	FLORIDA CITY	STREAM	3F	21FLWPB 28040077	Florida City Canal @ 344th Street	2002	2002	5
South Miami-Dade County	3306	FLORIDA CITY	STREAM	3F	21FLWPB 28040076	Florida City Canal at 117th ave and 344 street	2002	2002	5
South Miami-Dade County	3295	C-100	STREAM	3F	21FLWPB 28040240	C-100 A C SW 124 ST & SW 73 AV	2001	2002	175
South Miami-Dade County	3295	C-100	STREAM	3F	21FLWPB 28040243	C-100B C 186 ST & SW 92 AVE	2001	2001	21
South Miami-Dade County	3295	C-100	STREAM	3F	21FLWPB 28040248	C-100C C US 1 & SW 138 ST	2001	2002	116
South Miami-Dade County	3295	C-100	STREAM	3F	21FLWPB 28040235	C-100 C US 1 & SW 158 ST	2001	2001	24
South Miami-Dade County	3295A	CROSSING LAKE	LAKE	3F	21FLDADECD09	Cutler Drain (C-100).	1998	2003	2182

Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
South Miami-Dade County	3295A	CROSSING LAKE	LAKE	3F	21FLDADECD05	Cutler Drain (C-100). US 1/SW 158 St.	1999	2003	1865
South Miami-Dade County	3295A	CROSSING LAKE	LAKE	3F	21FLDADECD02	Cutler Drain Canal.	1998	2003	2164
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM	3F	21FLWPB 28040259	BLACK CR C 84 AV SALIN DAM WEST	2001	2002	110
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM	3F	21FLDADEBL12	Black Creek Canal (C-1).	1998	2003	2045
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM	3F	21FLDADEBL03	Black Creek Canal (C-1).	1998	2003	2165
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM	3F	21FLWPB 28040411	BLACK CREEK @ SW184 ST SOUTH MIAMI	2001	2002	153
South Miami-Dade County	3297	C-1/BLACK CREEK	STREAM	3F	21FLGW 3571	BL03	1998	2003	1884
South Miami-Dade County	3298	BLACK CREEK	ESTUARY	3M	21FLDADEBL01	Arch Creek.	1998	2003	1392
South Miami-Dade County	3298	BLACK CREEK	ESTUARY	3M	21FLDADEBL02	Black Creek Canal (C-1).	1998	2003	1349
South Miami-Dade County	3298A	GOULDS CANAL	STREAM	3F	21FLDADEGL02	Goulds Canal. Goulds Canal just east of earthen plug	1998	2003	1204
South Miami-Dade County	3298A	GOULDS CANAL	STREAM	3F	21FLDADEGL03	Goulds Canal. SW 94 Ave./SW 248 St.	1998	2003	2181
South Miami-Dade County	3298B	DA-4	ESTUARY	3M	21FLDADEMW01	Mowry Canal (C-103). Mouth of Mowry Canal	1998	2003	1368
South Miami-Dade County	3300	C-102	STREAM	3F	21FLDADEPR03	Princeton Canal (C-102). SW 107 Ave./SW 268 St.	1998	2003	2166
South Miami-Dade County	3300	C-102	STREAM	3F	21FLDADEPR04A	Princeton Canal (C-102). SW 122 Ave./SW 248 St.	1998	2003	2187
South Miami-Dade County	3300	C-102	STREAM	3F	21FLWPB 28040403	C-102 CANAL @ SW107 AVE,SOUTH DADE CO.	2001	2003	165
South Miami-Dade County	3300	C-102	STREAM	3F	21FLWPB 28040410	C102 CANAL @ SW147 AVE SOUTH MIAMI	2001	2002	128
South Miami-Dade County	3300	C-102	STREAM	3F	21FLDADEPR08	Princeton Canal (C-102).	1998	2003	2186
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM	3F	21FLDADEMW13	Mowry Canal (C-103).	1998	2003	2187

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Planning Unit	WBID	Waterbody Segment	Waterbody Type	Waterbody Class	StoRet Station ID	Station Description	BD	ED	# of Obs
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM	3F	21FLDADEMW05	Mowry Canal (C-103). SW 155 Ave./SW 264 St.	1998	2003	2161
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM	3F	21FLDADEMW04	Mowry Canal (C-103).	1998	2003	2052
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM	3F	21FLWPB 28040269	C-103 C SAL DAM W SW 320 ST	2001	2002	151
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM	3F	21FLWPB 28040277	C-103 C 177 AV & SW 276 ST	2001	2002	126
South Miami-Dade County	3302	C-103/MOWRY CANAL	STREAM	3F	21FLWPB 28040279	C-103 N SW 288 ST & SW 142 AV	2001	2001	23
South Miami-Dade County	3304	HOMESTEAD	STREAM	3F	21FLDADEMI03	Military Canal.	1998	2003	2292
South Miami-Dade County	3304	HOMESTEAD	STREAM	3F	21FLDADEMI02	Military Canal.	1998	2003	2105
South Miami-Dade County	3305	NORTH CANAL	STREAM	3F	21FLDADENO07	North Canal. SW 137 Ave./SW 328 St.	1998	2003	2047
South Miami-Dade County	3305	NORTH CANAL	STREAM	3F	21FLWPB 28040075	Canal @ 117th avenue in WBID 3305	2002	2002	5
South Miami-Dade County	3305	NORTH CANAL	STREAM	3F	21FLWPB 28040065	L31E CANAL @ 34TH STREET	2001	2002	155

Appendix F: Level 1 Land Use by Planning Unit for the Biscayne Bay–Southeast Coast Basin

Broward County Planning Unit						
LEVEL1	COUNT	ATTRIBUTE	SUM AREA	SUM ACRES	SUM SQ MIL	SUM PERCENT
1000	1975	Urban and Built Up	483960921.0483	119588.8581	186.8584	68.7709
2000	272	Agriculture	60280992.6244	14895.6967	23.2746	8.5659
3000	42	Rangeland	2578374.4085	637.1276	0.9955	0.3664
4000	291	Upland Forests	27710548.7985	6847.3977	10.6991	3.9377
5000	829	Water	44050832.9511	10885.1533	17.0081	6.2596
6000	164	Wetlands	18299793.3127	4521.9589	7.0656	2.6004
7000	105	Barren Land	14643336.2723	3618.4324	5.6538	2.0808
8000	112	Transportation, Communication and Utilities	52204033.3071	12899.8447	20.1561	7.4182
Total	3790		703728832.7229	173894.4694	271.7112	99.9999
North Dade Planning Unit						
LEVEL1	COUNT	ATTRIBUTE	SUM AREA	SUM ACRES	SUM SQ MIL	SUM PERCENT
1000	1859	Urban and Built Up	616588590.5647	152361.7347	238.0662	59.2469
2000	152	Agriculture	73382015.0212	18133.0165	28.3330	7.0511
3000	52	Rangeland	4632470.0976	1144.7036	1.7886	0.4451
4000	326	Upland Forests	143680716.4935	35504.1328	55.4754	13.8060
5000	580	Water	49078105.8259	12127.4144	18.9492	4.7158
6000	188	Wetlands	70314139.6762	17374.9311	27.1484	6.7564
7000	57	Barren Land	12789674.2463	3160.3844	4.9381	1.2289
8000	125	Transportation, Communication and Utilities	70245180.1316	17357.8909	27.1218	6.7497
Total	3339		1040710892.0570	257164.2084	401.8207	99.9999
South Dade Planning Unit						
LEVEL1	COUNT	ATTRIBUTE	SUM AREA	SUM ACRES	SUM SQ MIL	SUM PERCENT
1000	906	Urban and Built Up	248802003.1011	61480.0620	96.0630	23.2154
2000	836	Agriculture	289166335.5425	71454.2649	111.6477	26.9818
3000	88	Rangeland	5659809.6555	1398.5637	2.1853	0.5281
4000	230	Upland Forests	48671524.3250	12026.9463	18.7922	4.5415
5000	209	Water	22564339.0010	5575.7468	8.7121	2.1055
6000	1642	Wetlands	395013194.5452	97609.4863	152.5154	36.8582
7000	45	Barren Land	4124238.6349	1019.1174	1.5924	0.3848
8000	47	Transportation, Communication and Utilities	57709217.7201	14260.1998	22.2817	5.3848
Total	4003		1071710662.5253	264824.3872	413.7898	100.0001
Biscayne Bay Intercoastal Planning Unit						
LEVEL1	COUNT	ATTRIBUTE	SUM AREA	SUM ACRES	SUM SQ MIL	SUM PERCENT
1000	695	Urban and Built Up	166520721.2712	41147.9978	64.2940	61.0142
2000	5	Agriculture	392498.1734	96.9880	0.1515	0.1438
3000	7	Rangeland	827128.3471	204.3870	0.3194	0.3031
4000	101	Upland Forests	17317877.1299	4279.3231	6.6865	6.3454
5000	116	Water	5942330.7121	1468.3759	2.2943	2.1773
6000	242	Wetlands	54212864.9993	13396.2358	20.9317	19.8639
7000	47	Barren Land	1993478.8141	492.5973	0.7697	0.7304
8000	129	Transportation, Communication and Utilities	25714455.4385	6354.1543	9.9284	9.4219
Total	1342		272921354.8856	67440.0592	105.3755	100.0000

Appendix G: Potentially Impaired Waterbody Segments in the Biscayne Bay–Southeast Coast Basin, by Parameter (Based on the Impaired Surface Waters Rule)

WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3283	SNAKE CREEK CANAL EAST	STREAM	3F		Beryllium	Potentially Impaired	Medium	2009	PP - 4/4 Potentially Impaired; VP - No Data
3285	C-8/BISCAYNE CANAL	STREAM	3F		Beryllium	Potentially Impaired	Medium	2009	PP - 4/4 Potentially Impaired; VP - No Data
3286A	C-4/MIAMI CANAL WEST	STREAM	3F		Beryllium	Potentially Impaired	Medium	2009	PP - 4/4 Potentially Impaired; VP - No Data
3290	C-6/MIAMI CANAL	ESTUARY	3M		Beryllium	Potentially Impaired	Medium	2009	PP - 4/4 Potentially Impaired; VP - No Data
3295	C-100	STREAM	3F		Beryllium	Potentially Impaired	Medium	2009	PP - 4/4 Potentially Impaired; VP - No Data
3297	C-1/BLACK CREEK	STREAM	3F		Beryllium	Potentially Impaired	Medium	2009	PP - 4/4 Potentially Impaired; VP - No Data
3274	C-13 EAST/MIDDLE RIVER	STREAM	3F		Conductance	Potentially Impaired	Medium	2009	PP - 29/75 Potentially Impaired; VP - 32/47 Potentially Impaired
3288	C-6/MIAMI RIVER	ESTUARY	3M		Copper	Potentially Impaired	Low	2010	PP - 6/9 Potentially Impaired; VP - 1/3 Insufficient Data
3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 39/147 Potentially Impaired; VP - 14/72 Potentially Impaired No causative pollutant has been determined.
3271	POMPANO CANAL	STREAM	3F		Dissolved Oxygen	Potentially Impaired	High	2005	PP - 15/50 Potentially Impaired; VP - 11/42 Potentially Impaired No causative pollutant has been determined.

WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3273	C-13 WEST/MIDDLE RIVER	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 65/123 Potentially Impaired; VP - 23/68 Potentially Impaired No causative pollutant has been determined.
3274	C-13 EAST/MIDDLE RIVER	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 34/74 Potentially Impaired; VP - 18/47 Potentially Impaired Colimitation of nitrogen and phosphorous based on TN median = 0.963 mg/L and TP median = 0.064 mg/L
3276	C-12	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 24/78 Potentially Impaired; VP - 9/44 Potentially Impaired No causative pollutant has been determined.
3276A	NORTH FORK NEW RIVER	ESTUARY	3M		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 35/112 Potentially Impaired; VP - 23/75 Potentially Impaired Linked to elevated TN level. TN above screening level for PP and VP at (PP median = 1.2135, VP = 1.8435 mg/L).
3277	NORTH NEW RIVER CANAL	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 81/127 Potentially Impaired; VP - 48/78 Potentially Impaired No causative pollutant has been determined.
3279	SOUTH NEW RIVER CANAL	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 126/173 Potentially Impaired; VP - 103/140 Potentially Impaired No causative pollutant has been determined.

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WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3281	C-11 EAST	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 26/40 Potentially Impaired; VP - 11/22 Potentially Impaired Linked to elevated TN level. TN above the screening level for both the PP and VP. (PP median 1.82 mg/l and; VP median 1.84 mg/l).
3283	SNAKE CREEK CANAL EAST	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 70/120 Potentially Impaired; VP - 27/47 Potentially Impaired No causative pollutant has been determined.
3284	SNAKE CREEK CANAL WEST	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 72/ 79 Potentially Impaired; VP - 37/44 Potentially Impaired No causative pollutant has been determined.
3285	C-8/BISCAYNE CANAL	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 91/112 Potentially Impaired; VP - 29/38 Potentially Impaired No causative pollutant has been determined.
3286	C-4/TAMIAMI CANAL	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 7/12 Potentially Impaired; VP - No Data
3286A	C-4/MIAMI CANAL WEST	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 36/36 Potentially Impaired; VP - 9/9 Insufficient Data
3286C	SNAPPER CREEK	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 11/11 Potentially Impaired; VP - 1/13 Insufficient Data
3287	C-7/LITTLE RIVER	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 29/30 Potentially Impaired; VP - 10/11 Insufficient Data

WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3288	C-6/MIAMI RIVER	ESTUARY	3M	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 28/48 Potentially Impaired; VP - 15/26 Potentially Impaired No causative pollutant has been determined.
3288A	WAGNER CREEK	ESTUARY	3M	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	High	2005	PP - 9/12 Insufficient Data; VP - 9/13 Insufficient Data
3290	C-6/MIAMI CANAL	ESTUARY	3M		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 52/69 Potentially Impaired; VP - 47/60 Potentially Impaired Linked to elevated TN level. TN above the screening level for both the PP and VP. (PP median = 1.28 mg/l and VP median = 1.46 mg/l).
3292	CORAL GABLES CANAL	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 14/20 Potentially Impaired; VP - 6/9 Insufficient Data
3286B	C-4/TAMIAMI CANAL WEST	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Low	2010	PP - 19/20 Potentially Impaired; VP - 3/4 Insufficient Data
3297	C-1/BLACK CREEK	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 73/136 Potentially Impaired; VP - 38/72 Potentially Impaired No causative pollutant has been determined.
3298	BLACK CREEK	ESTUARY	3M		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 6/32 Potentially Impaired; VP - 0/7 Insufficient Data
3298A	GOULDS CANAL	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 26/38 Potentially Impaired; VP - 4/6 Insufficient Data

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WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3300	C-102	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 30/47 Potentially Impaired; VP - 16/24 Potentially Impaired Linked to elevated TN level. TN above the screening level for both the PP and VP. (PP median = 3.0 mg/l and VP median = 2.9 mg/l).
3302	C-103/MOWRY CANAL	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 30/55 Potentially Impaired; VP - 11/22 Potentially Impaired Linked to elevated TN level. TN above the screening level for both the PP and VP. (PP median = 1.762 mg/l and VP median = 2.2195 mg/l).
3303	C-111 CANAL	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 228/291 Potentially Impaired; VP - 156/194 Potentially Impaired No causative pollutant has been determined.
3303A	C-113	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 152/161 Potentially Impaired; VP - 101/105 Potentially Impaired No causative pollutant has been determined.
3304	HOMESTEAD	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 5/18 Potentially Impaired; VP - 0/6 Insufficient Data
3305	NORTH CANAL	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 3/10 Potentially Impaired; VP - 3/10 Insufficient Data
3306	FLORIDA CITY (canals)	STREAM	3F		Dissolved Oxygen	Potentially Impaired	Medium	2009	PP - 4/6 Potentially Impaired; VP - 4/6 Insufficient Data

WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3276A	NORTH FORK NEW RIVER	ESTUARY	3M		Fecal Coliforms	Potentially Impaired	Medium	2009	PP - 144/248 Potentially Impaired; VP - 33/72 Potentially Impaired
3285	C-8/BISCAYNE CANAL	STREAM	3F	Coliforms	Fecal Coliforms	Potentially Impaired	Low	2010	PP - 74/84 Potentially Impaired; VP - 27/27 Potentially Impaired
3288A	WAGNER CREEK	ESTUARY	3M	Coliforms	Fecal Coliforms	Potentially Impaired	High	2005	PP - 8/11 Insufficient Data; VP - 8/11 Insufficient Data
3290	C-6/MIAMI CANAL	ESTUARY	3M	Coliforms	Fecal Coliforms	Potentially Impaired	Medium	2009	PP - 6/31 Potentially Impaired; VP - No Data
3270	C-14/CYPRESS CREEK CANAL (POMPANO CANAL)	STREAM	3F		Fish	Potentially Impaired	Low	2010	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3275	L-35A BORROW	STREAM	3F		Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3277	NORTH NEW RIVER CANAL	STREAM	3F		Fish	Potentially Impaired	Low	2010	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3277A	SOUTH NEW RIVER CANAL	ESTUARY	3M		Fish	Potentially Impaired	Low	2010	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3277C	CANALS	STREAM	3F		Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.

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WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3284	SNAKE CREEK CANAL WEST	STREAM	3F	Fish	Fish	Potentially Impaired	Low	2010	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3290	C-6/MIAMI CANAL	ESTUARY	3M		Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3297	C-1/BLACK CREEK	STREAM	3F		Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3300	C-102	STREAM	3F		Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3302	C-103/MOWRY CANAL	STREAM	3F		Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3303	C-111 CANAL	STREAM	3F	Fish	Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3303A	C-113	STREAM	3F	Fish	Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.

WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3303B	C-113 Coastal	ESTUARY	3M		Fish	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Need to check age of fish tissue data is within 7.5 years.
3303	C-111 CANAL	STREAM	3F		Iron	Potentially Impaired	Medium	2009	PP - 140/223 Potentially Impaired; VP - 33/114 - Potentially Impaired
3276A	NORTH FORK NEW RIVER	ESTUARY	3M		Mercury	Potentially Impaired	Medium	2009	PP - 23/23 Potentially Impaired; VP - 23/23 Potentially Impaired
3288A	WAGNER CREEK	ESTUARY	3M	Nutrients	Narrative Criteria	Potentially Impaired	High	2006	PP - No Data; VP - No Data Moved to Category 3C per Rule 62-303.300(2).
3274	C-13 EAST/MIDDLE RIVER	STREAM	3F		Nutrients (Chl-a)	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired with one annual mean chl a value above 20 ug/L. Colimiting of nitrogen and phosphorus based upon TN/TP ratios [TN median = 0.963 mg/L and TP median = 0.064 mg/L. PP median TN/TP ratio = 24.37 (43 values), VP median TN/TP ratio = 13.04 (27 values).

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WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3276A	NORTH FORK NEW RIVER	ESTUARY	3M		Nutrients (Chl-a)	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Two annual mean chl a value above 20 ug/l. Nitrogen limiting nutrient for both PP and VP based on TN/TP ratios (PP TN median = 1.2135 mg/L, VP TN median = 1.339 mg/L. PP median TN/TP ratio = 13.85 mg/L (113 values), VP median TN/TP ratio = 14.35 (68 values).
3282	HOLLYWOOD CANAL	ESTUARY	3M	Nutrients	Nutrients (Chl-a)	Potentially Impaired	Low	2010	PP - Potentially Impaired; VP - Potentially Impaired Have not identified a limiting nutrient at this time.
3226G	ICCW AB DADE CO.	ESTUARY	3M	Nutrients	Nutrients (HistChl-a)	Potentially Impaired	Low	2010	PP - Potentially Impaired; VP - Potentially Impaired Have not identified a limiting nutrient at this time.
6001	BISCAYNE BAY	ESTUARY	3M		Nutrients (HistChl-a)	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired Have not identified a limiting nutrient at this time.
3271	POMPANO CANAL	STREAM	3F	Nutrients	Nutrients (HistChl-a)	Potentially Impaired	High	2005	PP - Potentially Impaired; VP - Potentially Impaired Have not identified a limiting nutrient at this time.
3276A	NORTH FORK NEW RIVER	ESTUARY	3M		Nutrients (HistChl-a)	Potentially Impaired	Medium	2009	PP - Potentially Impaired; VP - Potentially Impaired
3276A	NORTH FORK NEW RIVER	ESTUARY	3M		Total Coliform	Potentially Impaired	Medium	2009	PP - 54/137 Potentially Impaired; VP - 9/29 Potentially Impaired

WBID	Water Segment Name	Waterbody Type	Waterbody Class ¹	1998 303(d) Parameters of Concern	Parameters Assessed Using the 2001 Impaired Surface Waters Rule (IWR)	Assessment Status (Not Impaired, No Data, Insufficient Data, Planning list, Verified list)	Priority for TMDL Development ³	Projected Year for TMDL Development	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period ⁴
3285	C-8/BISCAYNE CANAL	STREAM	3F	Coliforms	Total Coliform	Potentially Impaired	Low	2010	PP - 58/84 Potentially Impaired; VP - 24/27 Potentially Impaired
3288A	WAGNER CREEK	ESTUARY	3M	Coliforms	Total Coliform	Potentially Impaired	High	2005	PP - 7/11 Insufficient Data;VP - 7/11 Insufficient Data







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