

**NAPLES BAY SURFACE WATER IMPROVEMENT & MANAGEMENT PLAN**  
**RECONNAISSANCE REPORT**  
**APPENDIX A**

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**A1 FDEP (303)D IMPAIRED WATERS LISTINGS FOR WATERBODIES WITHIN NAPLES BAY BASIN**

**Amendments to 2002 Update (March 2003).**

**VERIFIED LIST OF IMPAIRED WATERS.**

BASIN	WBID <sup>1</sup>	WATER SEGMENT NAME	PARAMETERS IDENTIFIED USING THE IMPAIRED WATERS RULE	CONCENTRATIONS CAUSING IMPAIRMENT <sup>2</sup>	PRIORITY FOR TMDL DEVELOPMENT <sup>3</sup>	PROJECTED YEAR FOR TMDL DEVELOPMENT	COMMENTS
EVERGLADES WEST COAST	3259A	COCOHATCHEE RIVER	DO	DO	LOW	2007	DO MET VERIFICATION THRESHOLD PER IWR AND NITROGEN IS THE CAUSATIVE POLLUTANT.
EVERGLADES WEST COAST	3259B	COCOHATCHEE RIVER CANAL	DO	< 5.0 MG/L	MEDIUM	2007	THIS WBID IS BEING ADDED AS A RESULT OF DISCUSSIONS WITH THE CONSERVANCY OF SOUTHWEST FLORIDA, WHO REQUESTED AND RECEIVED AN EXTENSION FOR THE FILING OF A PETITION CHALLENGING THE AUGUST 28, 2002 ADOPTED LIST. THE DEPARTMENT RE-ASSESSED THIS WBID USING ADDITIONAL HISTORICAL DATA COLLECTED BY COLLIER COUNTY, AND THE RE-ASSESSMENT INDICATES THAT DO MET THE VERIFICATION THRESHOLD PER THE IWR. BOD IS INDICATED AS THE CAUSATIVE POLLUTANT.
EVERGLADES WEST COAST	3259B	COCOHATCHEE RIVER CANAL	IRON	> 1.0 MG/L	MEDIUM	2007	THIS WBID IS BEING ADDED AS A RESULT OF DISCUSSIONS WITH THE CONSERVANCY OF SOUTHWEST FLORIDA, WHO REQUESTED AND RECEIVED AN EXTENSION FOR THE FILING OF A PETITION CHALLENGING THE AUGUST 28, 2002 ADOPTED LIST. THE DEPARTMENT RE-ASSESSED THIS WBID USING ADDITIONAL HISTORICAL DATA COLLECTED BY COLLIER COUNTY, AND THE RE-ASSESSMENT INDICATES THAT DO MET THE VERIFICATION THRESHOLD PER THE IWR.
EVERGLADES WEST COAST	3259D	GORDON RIVER CANAL	DO	< 5.0 MG/L	MEDIUM	2007	THIS WBID IS BEING ADDED AS A RESULT OF DISCUSSIONS WITH THE CONSERVANCY OF SOUTHWEST FLORIDA, WHO REQUESTED AND RECEIVED AN EXTENSION FOR THE FILING OF A PETITION CHALLENGING THE AUGUST 28, 2002 ADOPTED LIST. THE DEPARTMENT RE-ASSESSED THIS WBID USING ADDITIONAL HISTORICAL DATA COLLECTED BY COLLIER COUNTY, AND THE RE-ASSESSMENT INDICATES THAT DO MET THE VERIFICATION THRESHOLD PER THE IWR. BOD IS INDICATED AS THE CAUSATIVE POLLUTANT.
EVERGLADES WEST COAST	3259E	HENDERSON CREEK CANAL	DO	< 5.0 MG/L	MEDIUM	2007	THIS WBID IS BEING ADDED AS A RESULT OF DISCUSSIONS WITH THE CONSERVANCY OF SOUTHWEST FLORIDA, WHO REQUESTED AND RECEIVED AN EXTENSION FOR THE FILING OF A PETITION CHALLENGING THE AUGUST 28, 2002 ADOPTED LIST. THE DEPARTMENT RE-ASSESSED THIS WBID USING ADDITIONAL HISTORICAL DATA COLLECTED BY COLLIER COUNTY, AND THE RE-ASSESSMENT INDICATES THAT DO MET THE VERIFICATION THRESHOLD PER THE IWR. BOD IS INDICATED AS THE CAUSATIVE POLLUTANT.
EVERGLADES WEST COAST	3259L	BLACKWATER RIVER	DO	< 5.0 MG/L	MEDIUM	2007	THIS WBID IS BEING ADDED AS A RESULT OF DISCUSSIONS WITH THE CONSERVANCY OF SOUTHWEST FLORIDA, WHO REQUESTED AND RECEIVED AN EXTENSION FOR THE FILING OF A PETITION CHALLENGING THE AUGUST 28, 2002 ADOPTED LIST. THE DEPARTMENT RE-ASSESSED THIS WBID USING ADDITIONAL HISTORICAL DATA COLLECTED BY COLLIER COUNTY, AND THE RE-ASSESSMENT INDICATES THAT DO MET THE VERIFICATION THRESHOLD PER THE IWR. PHOSPHORUS IS INDICATED AS THE CAUSATIVE POLLUTANT.

Amendments to 2002 Update (March 2003) - Continued.

DE-LIST LIST OF IMPAIRED WATERS.

BASIN GROUP NAME	WBID	WATER SEGMENT NAME	1998 303(D) PARAMETERS OF CONCERN	PARAMETERS EVALUATED USING THE IWR	EPA'S INTEGRATED REPORT CATEGORY*	COMMENTS (WITH # OF EXCEEDANCES/# OF SAMPLES)
EVERGLADES WEST COAST	3259C	GORDON RIVER	NUTRIENTS			BASED ON NEWLY EVALUATED DATA FROM COLLIER COUNTY (EVALUATED AS PART OF MEDIATION DISCUSSIONS WITH THE CONSERVANCY OF SOUTHWEST FLORIDA), THIS WBID WAS INCORRECTLY LISTED FOR NUTRIENT IMPAIRMENT ON THE VERIFIED LIST ADOPTED AUGUST 28, 2002. THE SEGMENT IS BELOW THE CHLOROPHYLL A THRESHOLD FOR STREAMS AND SHOULD HAVE BEEN ASSESSED AS "MEETS STANDARDS." CHLOROPHYLL A DATA: RANGE = 8.0 34.96 ug/L, MEDIAN = 2.1 ug/L, MEAN = 1.39 ug/L.

2002 Update Master List (October 2002).

Planning Unit Name	WBID	Waterbody Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Identified Using the IWR	Proposed Status (Meets Standards, No Data, Insufficient Data, Planning List, Verified List)	EPA's Integrated Report Category *	Priority for TMDL Development **	Projected Year for TMDL Development	Comments
Inner Drainage Area	3261C	Barron River Canal (north)	STREAM		DO	PL	3c			DO met verification threshold per IWR, however neither nutrients nor BOD were indicated as causative pollutants based upon available data. Further data needed to identify specific causative pollutant.
Inner Drainage Area	3261C	Barron River Canal (north)	STREAM		mercury (in fish tissue)	PL	3c			Need to confirm 7.5 year age of data.
Inner Drainage Area	3261C	Barron River Canal (north)	STREAM		fluoride	MS	2			
Inner Drainage Area	3261C	Barron River Canal (north)	STREAM		total coliforms	MS	2			
Inner Drainage Area	3261C	Barron River Canal (north)	STREAM		fecal coliforms	MS	2			
Inner Drainage Area	3261C	Barron River Canal (north)	STREAM		turbidity	MS	2			
Inner Drainage Area	3261D	Tamiami Canal	STREAM			ND	3a			No data are currently available for assessment.
Inner Drainage Area	3266	L-28 Interceptor	STREAM	DO	DO	PL	3c	(Low)	(2011)	DO met verification threshold per IWR, however neither nutrients nor BOD were indicated as causative pollutants based upon available data. Further data needed to identify specific causative pollutant.
Inner Drainage Area	3266	L-28 Interceptor	STREAM	nutrients		ID	3c	(Low)	(2011)	Moved to planning list per 62-303.300(2). Further data needed for assessment (insufficient chlorophyll data currently available).
Inner Drainage Area	3266	L-28 Interceptor	STREAM	mercury (in fish tissue)		ND	3c	(Low)	(2011)	Moved to planning list per 62-303.300(2). Further data needed for assessment (no mercury in fish tissue data currently available).
Inner Drainage Area	3266	L-28 Interceptor	STREAM		turbidity	MS	2			
Inner Drainage Area	3266	L-28 Interceptor	STREAM		un-NH3	MS	2			
Inner Drainage Area	3267	Feeder Canal	STREAM			ND	3a			No data are currently available for assessment.
Inner Drainage Area	3269	L-28 Gap	STREAM	DO	DO	PL	3c	(Low)	(2011)	DO met verification threshold per IWR, however neither nutrients nor BOD were indicated as causative pollutants based upon available data. Further data needed to identify specific causative pollutant.
Inner Drainage Area	3269	L-28 Gap	STREAM		mercury (in fish tissue)	PL	3c			Need to confirm 7.5 year age of data.
Inner Drainage Area	3269	L-28 Gap	STREAM		turbidity	MS	2			
Inner Drainage Area	3269	L-28 Gap	STREAM		un-NH3	MS	2			
Southwest Coast	3259A	Cocohatchee River	STREAM	DO	DO	VL	5	Low	2007	DO met verification threshold per IWR and nitrogen is the causative pollutant.
Southwest Coast	3259A	Cocohatchee River	STREAM	BOD		ND	3c	(Low)	(2007)	Moved to planning list per 62-303.300(2). Further data needed for assessment (no BOD data are currently available, DO data are insufficient to verify DO impairment).
Southwest Coast	3259A	Cocohatchee River	STREAM	coliforms		ID	3c	(Low)	(2007)	Moved to planning list per 62-303.300(2). Further data needed for assessment (insufficient total and fecal coliform data currently available).
Southwest Coast	3259A	Cocohatchee River	STREAM		mercury (in fish tissue)	PL	3c			Need to confirm 7.5 year age of data.
Southwest Coast	3259A	Cocohatchee River	STREAM		turbidity	MS	2			
Southwest Coast	3259B	Cocohatchee River Canal	STREAM		DO	PL	3c			Further DO data needed for verification.

Planning Unit Name	WBID	Waterbody Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Identified Using the IWR	Proposed Status (Meets Standards, No Data, Insufficient Data, Planning List, Verified List)	EPA's Integrated Report Category *	Priority for TMDL Development **	Projected Year for TMDL Development	Comments
Southwest Coast	3259C	Gordon River	STREAM	DO	DO	PL	3c	(Low)	(2007)	DO met verification threshold per IWR, however neither nutrients nor BOD were indicated as causative pollutants based upon available data. Further data needed to identify specific causative pollutant.
Southwest Coast	3259C	Gordon River	STREAM	BOD		ND	3c	(Low)	(2007)	Moved to planning list per 62-303.300(2). Further data needed for assessment (no BOD data are currently available, DO data are insufficient to verify DO impairment).
Southwest Coast	3259C	Gordon River	STREAM	coliforms	total coliforms	PL	3c	(Low)	(2007)	Further DO data needed for verification.
Southwest Coast	3259C	Gordon River	STREAM	coliforms	fecal coliforms	ID	3c	(Low)	(2007)	Moved to planning list per 62-303.300(2). Further data needed for assessment (insufficient fecal coliform data currently available).
Southwest Coast	3259C	Gordon River	STREAM	nutrients		ID	3c	(Low)	(2007)	Moved to planning list per 62-303.300(2). Further data needed for assessment (insufficient chlorophyll data currently available).
Southwest Coast	3259D	Gordon River Canal	STREAM			ID	3b			Some chlorophyll, DO, fecal coliform, iron, manganese and turbidity data available, but are insufficient for assessment under IWR.
Southwest Coast	3259E	Henderson Creek Canal	STREAM		DO	PL	3c			Further data needed for verification.
Southwest Coast	3259F	Golden Gate Canal	ESTUARY		DO	PL	3c			DO met verification threshold per IWR, however neither nutrients nor BOD were indicated as causative pollutants based upon available data. Further data needed to identify specific causative pollutant.
Southwest Coast	3259F	Golden Gate Canal	ESTUARY		turbidity	MS	2			
Southwest Coast	3259G	Naples Bay	ESTUARY	nutrients	nutrients (chlorophyll)	PL	3c	(Low)	(2007)	Further data needed for verification.
Southwest Coast	3259G	Naples Bay	ESTUARY		DO	PL	3c	(Low)	(2007)	Further data needed for verification.
Southwest Coast	3259H	Henderson Creek Canal	STREAM		DO	PL	3c			Further data needed for verification.
Southwest Coast	3259I	West Collier	STREAM			ID	3b			Some DO, chlorophyll and turbidity data but they are insufficient for assessment under the IWR.
Southwest Coast	3259J	Rookery Bay	ESTUARY			ID	3b			Some DO, chlorophyll and turbidity data but they are insufficient for assessment under the IWR.
Southwest Coast	3259K	Runoff to Gulf	STREAM			ID	3b			Some DO, chlorophyll and turbidity data but they are insufficient for assessment under the IWR.
Southwest Coast	3259L	Blackwater River	STREAM		DO	MS	2			
Southwest Coast	3259L	Blackwater River	STREAM		fecal coliforms	MS	2			
Southwest Coast	3259L	Blackwater River	STREAM		turbidity	MS	2			
Southwest Coast	3259M	Runoff to Gulf	ESTUARY		DO	MS	2			
Southwest Coast	3259M	Runoff to Gulf	ESTUARY		fecal coliforms	MS	2			
Southwest Coast	3259M	Runoff to Gulf	ESTUARY		turbidity	MS	2			
Southwest Coast	3259N	Runoff to Gulf	ESTUARY		DO	MS	2			
Southwest Coast	3259N	Runoff to Gulf	ESTUARY		fecal coliforms	MS	2			
Southwest Coast	3259N	Runoff to Gulf	ESTUARY		turbidity	MS	2			
Southwest Coast	3259O	Faka Union Canal	STREAM		DO	MS	2			
Southwest Coast	3259O	Faka Union Canal	STREAM		fecal coliforms	MS	2			
Southwest Coast	3259O	Faka Union Canal	STREAM		turbidity	MS	2			
Southwest Coast	3259P	Ferguson River	ESTUARY		DO	MS	2			
Southwest Coast	3259P	Ferguson River	ESTUARY		fecal coliforms	MS	2			
Southwest Coast	3259P	Ferguson River	ESTUARY		turbidity	MS	2			
Southwest Coast	3259Q	Center of Outer Clam B	ESTUARY			ND	3a			No data are currently available for assessment.
Southwest Coast	3259R	Runoff to Gulf	ESTUARY		DO	MS	2			
Southwest Coast	3259R	Runoff to Gulf	ESTUARY		fecal coliforms	MS	2			
Southwest Coast	3259R	Runoff to Gulf	ESTUARY		turbidity	MS	2			
Southwest Coast	3259S	Runoff to Gulf	ESTUARY			ID	3b			Some DO data but they are insufficient for assessment under the IWR.
Southwest Coast	3259T	Lake Avalon, Mid-Lake	LAKE			ID	3b			Some DO, fecal and total coliform, turbidity and unionized ammonia data available, but are insufficient for assessment under the IWR.

Planning Unit Name	WBD	Waterbody Segment Name	Waterbody Type	1998 303(d) Parameters of Concern	Parameters Identified Using the IWR	Proposed Status (Meets Standards, No Data, Insufficient Data, Planning List, Verified List)	EPA's Integrated Report Category*	Priority for TMDL Development**	Projected Year for TMDL Development	Comments
Southwest Coast	3259W	Lake Trafford	LAKE	nutrients	nutrients (TSI)	VL	5	Low	2007	TSI met verification threshold per IWR. Nitrogen and phosphorus are both causative and limiting pollutants.
Southwest Coast	3259W	Lake Trafford	LAKE		turbidity	PL	3c			Turbidity met verification threshold per IWR. Need to assess natural background levels and identify causative pollutant. Algae blooms suspected, but needs to be confirmed.
Southwest Coast	3259W	Lake Trafford	LAKE		fluoride	MS	2			
Southwest Coast	3259W	Lake Trafford	LAKE		mercury (in fish tissue)	MS	2			
Southwest Coast	3259W	Lake Trafford	LAKE		fecal coliforms	MS	2			
Southwest Coast	3259W	Lake Trafford	LAKE		total coliforms	MS	2			
Southwest Coast	3259W	Lake Trafford	LAKE		fluoride	MS	2			
Southwest Coast	3259X	Drainage to Corkscrew	STREAM		DO	PL	3c			Further data needed for verification.
Southwest Coast	3259Y	Vanderbilt Wway	ESTUARY			ID	3b			Some chlorophyll, DO, fecal coliform and turbidity data available, but are insufficient for assessment under IWR.
Southwest Coast	3258Z	Little Hickory Bay	ESTUARY			ID	3b			Some chlorophyll, DO, fecal coliform and turbidity data available, but are insufficient for assessment under IWR.
Southwest Coast	8064	Southwest Coast Gulf 4	ESTUARY		DO	MS	2			
Southwest Coast	8064	Southwest Coast Gulf 4	ESTUARY		turbidity	MS	2			
Southwest Coast	8064	Southwest Coast Gulf 4	ESTUARY		fecal coliforms	MS	2			
Southwest Coast	8065	Southwest Coast Gulf 5	ESTUARY		bacteria (in shellfish)	VL	5	Medium	2007	Listed based on change in shellfish harvesting classification (downgraded from approved to conditional).
Southwest Coast	8065	Southwest Coast Gulf 5	ESTUARY		arsenic	MS	2			
Southwest Coast	8065	Southwest Coast Gulf 5	ESTUARY		DO	MS	2			
Southwest Coast	8065	Southwest Coast Gulf 5	ESTUARY		fecal coliforms	MS	2			
Southwest Coast	8065	Southwest Coast Gulf 5	ESTUARY		turbidity	MS	2			
Southwest Coast	8999	Florida Gulf Coast	ESTUARY		mercury (in fish tissue)	VL	5	Medium	2011	Age of data verified to be within last 7.5 years. Confirmed recent data for coastal fish advisory for mackerel. Includes nearshore areas in WBDs 8060, 8061, 8062, 8063, 8064 and 8065.

\* 1 - Attains all designated uses, 2 - Attains some designated uses, 3a - No data and information available to determine if any designated use is attained, 3b - Some data and information available but they are insufficient for determining if any designated use is attained, 3c - Meets planning list criteria and is potentially impaired for one or more designated uses, 4a - Impaired for one or more designated uses and the TMDL is complete, 4b - Impaired for one or more designated uses but no TMDL will be developed because the impairment is not caused by a pollutant, 4c - Impaired for one or more designated uses, but no TMDL is required because a proposed pollution control measure provides reasonable assurance that the water will attain standards in the future, 5 - Water quality standards are not attained and a TMDL is required.

\*\* Priorities were retained from the 1998 303(d) list (i.e., High or Low), but High, Medium and Low are used for newly listed waters identified under the IWR.

## A2 CLAM BAY/MANGROVE DIE-OFF RELATED INFORMATION

### Field Studies Parkshore and Clam Bay Systems Naples, Florida

USEPA. 1975. *Field Studies Parkshore and Clam Bay Systems Naples, Florida. November 10-18, 1975. USEPA Region IV Surveillance and Analysis Division. Athens, GA.*

Water quality, sediment, biological and hydrographic studies of Doctors Bay were conducted during November 11-17, 1975. The stated objectives were to characterize current conditions of water quality, hydraulic and circulation patterns, identify physical factors controlling flushing rates, and develop a hydrographic-mathematical model for assessing the proposed action (a structure at the northern extreme of Parkshore development to provide water circulation). Summary and conclusions listed are:

No DO violations were experienced

Nutrient concentrations represent reasonably pollution-free levels

Sediment chemical composition were in the range of similar canal systems

A connection between Parkshore and Clam Bay would be beneficial. Specifications to prevent regular exposure of Clam Bay substrate were made.

The most beneficial interconnection scheme modeled were four three-foot diameter culverts placed at an invert elevation of -1.5 foot SLD with a tide gate allowing flow only in the northerly direction. Suitable rip-rap should be installed.

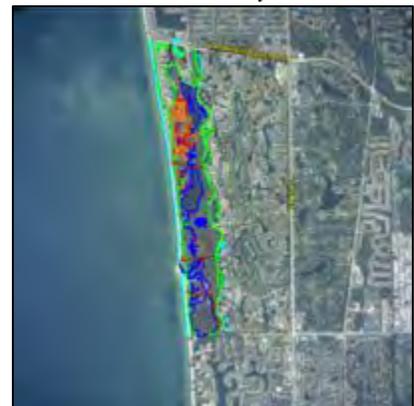
USEPA. 1977. *Field Studies Parkshore and Clam Bay Systems Naples, Florida. October 17-22, 1977. USEPA Region IV Surveillance and Analysis Division. Athens, GA.*

Hydrological, water quality, and biological studies were conducted to evaluate hydrographic effects of the connection opened between Clam and Doctors Bays, and effects of overwater structures at Parkshore Development on benthic communities in Doctors Bay. Given results and comparisons of both studies (1975 and 1977), it was concluded that no environmental problems arising from either the connection opening or the overwater structures had occurred.

### Clam Bay Restoration and Management Plan.

Brown, T.R., T.O. Hillestad, S. Means, D. Zysko, D. Tackney, R. Lewis, S. Snedaker, M. Hatcher, and B. Lorenz. 1998. *Clam Bay Restoration and Management Plan. Presented to Collier County Pelican Bay Services Division and WCI Communities. Akerman, Senterfitt, and Eidson, P.A. Orlando, Florida.*

Between 1996 and 1998, several “permits were issued by DEP to maintain Clam Pass in an open condition, to control elevated water levels within Upper and Inner Clam Bays, and to attempt to stop the abnormally high mortality rate of mangrove occurring in the estuarine system. Ongoing water quality monitoring data submitted by Collier County Environmental Services and Pelican Bay Services District did not indicate the presence of excessive chemicals or nutrient in the concentration high enough to solely cause the mangrove mortality. Rather, the data showed that the death of the mangroves was attributable to a combination of factors, including excessive freshwater input to the system from the developed upland and inadequate drainage/tidal exchange from constricted channels resulting in water becoming



Clam Bay mangrove die-off area  
(Turrell and Associates).

elevated and stagnated above the pneumatophores of the mangrove for lethally long periods of time (Brown et al., 1998).

In 1998, one joint coastal permit was issued to Collier County-Pelican Bay Services Division to restore and manage the Clam Bay Natural Resource Protection Area based on the Clam Bay Restoration and Management Plan (CBRMP) (Brown et al., 1998) over the life of a ten year permit. This included dredging, material from Clam Pass and channels, periodic dredging to maintain design depths, blasting of interior channels, replacing culverts along Seagate Drive with one-way culverts, deposit material adjacent to Clam Pass and uplands, remove exotic vegetation, conduct studies to determine the source of excess water from uplands, and formulate and implement an Upland Water Discharge Reduction Plan. Required Monitoring includes the following:

Water Quality Monitoring at dredge sites and disposal sites twice daily

1. Hydrographic Monitoring to assess impacts of opening channels
  - a. Topographic surveys
  - b. Monitoring stations - Eleven hydrologic parameters, plus water quality, which includes salinity, silicates, nitrites, total organic carbon, chlorophyll, phaeophytin, pH, conductivity, dissolved oxygen, total phosphorus, nitrite, nitrate, ammonia, total kjeldahl nitrogen, and total dissolved solids
2. Biological monitoring, with a focus on mangrove and seagrass communities
  - a. Aerial photography
  - b. Groundtruthing and mapping with percent cover, size, health, etc. recorded at fixed location
  - c. Annual reports

The Southwest Florida Conservancy has two projects related to the Clam Bay mangrove die-off. Described briefly below, more information can be obtained from the Conservancy website. Principle Investigator Kathy Worley published “Mangroves as an Indicator of Estuarine Conditions in Restoration Areas” in *Estuarine Indicators* based on this work in 2005.

#### **Determination of Underlying Causes of Mangrove Die-Offs Located Adjacent to Encroaching Development, 2001-2004**

*The Conservancy of Southwest Florida. Unpublished. Determination of Underlying Causes of Mangrove Die-Offs Located Adjacent to Encroaching Development, 2001-2004. The Conservancy of Southwest Florida. Naples, Florida. Retrieved the World Wide Web*

The objective of **Mangrove Hydrology Project, 2000 – 2004** was to determine ground and surface water level and water residence time in healthy mangrove stands adjacent to die-offs (controls) and transition zones (areas between mangrove die-offs and adjacent mangrove) and in die-offs adjacent to development in two separate sites.

## **Mangrove Hydrology Project**

*The Conservancy of Southwest Florida. Unpublished. Mangrove Hydrology Project. The Conservancy of Southwest Florida. Naples, Florida. Retrieved from the World Wide Web*

The objective of the project **Determination of Underlying Causes of Mangrove Die-Offs Located Adjacent to Encroaching Development, 2001-2004** was to investigate causes of mangrove die-offs located adjacent to or near development. Investigation into the current hydrology, topography, soil physiology and vegetative re-establishment in die-off areas and adjacent living mangrove stands should provide insight into any cause and effect relationships between development placed adjacent to or near mangrove forests and mangrove die-offs. Information from this study will help understand some of the reasons for future die-offs and created a baseline database describing important physical and nutrient concentrations associated with both die-off and healthy areas.

**Other mangrove work** has been done in the development north of Bayview County Park by both Profit and McKee. This and other mangrove research conducted in the study area are included in the Relevant Literature section of this report.

## **A3 RESTORATION PROJECTS ADJACENT TO AND SURROUNDING THE STUDY AREA**

### **Henderson Creek/Belle Meade Restoration**

Belle Meade is the primary drainage basin for the Henderson Creek Estuary, which drains into Rookery Bay. The purpose of the multi-feature project is to restore historic sheetflow to the estuary, treat stormwater, improve water quality, and increase habitat value and wetland functions. Planned individual components are: a 10-acre stormwater lake/marsh filtering system; four culverts under C.R. 951; hydrologic restoration around Manatee Basin including culverts, ditching, and removal of some roadbed; invasive, exotic plant removal; a public access point and interpretive boardwalk; construction of a swale and spreader system; and removal of the Road-to-Nowhere. FDEP is the local sponsor for the project.

### **Picayune Strand (Southern Golden Gates Estates) Restoration Project (PSRP)**

“This feature includes a combination of spreader channels, canal plugs, road removal, and pump stations in Southern Golden Gate Estates in Collier County, south of U.S. Interstate 75 and north of U.S. 41 between the Belle Meade area and the Fakahatchee Strand State Preserve. The purpose of this project is to restore and enhance the wetlands in Southern Golden Gate Estates and in adjacent public lands by reducing over-drainage while maintaining the existing level of flood protection within the region. Implementation of the restoration plan would also improve the water quality of coastal estuaries by moderating the large salinity fluctuations caused by freshwater point discharge of the Faka-Union Canal. The Picayune Strand Restoration Project Final Integrated Implementation Report and Environment Impact Statement is complete. Submittal to Congress is planned for Fall 2005. This project has been designated an Acceler8 project. In an effort to expedite restoration of critical lands, a portion of Prairie Canal has already been plugged. The final PIR/EIS is complete. Construction is set to begin in 2006, and finish in 2009 (Janet Starnes, SFWMD, personal communication). The local sponsor is the SFWMD.

### **Southern Corkscrew Regional Ecosystem Watershed Project Addition**

This project includes the acquisition and restoration of 4,670 acres of land, replacement of the Imperial Bonita Estates Bridge on the Imperial River, and replacement of the Kehl Canal Weir in southern Lee County, adjacent to Corkscrew Sanctuary. The purpose of this feature is to: (1) reestablish historic flow patterns and hydroperiods on the project lands, as well as Corkscrew Regional Ecosystem Watershed (CREW) and Corkscrew Sanctuary wetlands to the east; (2) restore historical storage potential of the Southern CREW; (3) reduce excessive freshwater discharges to Estero Bay during the rainy season; (4) decrease saltwater intrusion during the dry season; (5) reduce loading of nutrients and other pollutants to the Imperial River and Estero Bay; (6) increase aquifer recharge and water supply for an area frequently facing water restrictions during dry years; and (7) reduce flooding of homes and private lands west of the project area. Hydrologic restoration of this land will include the acquisition of approximately 4,300 acres and the following modifications: removal of existing road beds, removal of single-family homes, removal of debris, filling of ditches, and removal of agricultural canals and berms. Other components within the plan include: replacement of the Kehl Canal weir; clearing and snagging on Imperial River, Estero River, and Halfway Creek; reconnection of Spring Creek and Halfway Creek under U.S. Interstate 75; and replacement of the Imperial Bonita Estates Bridge. The Imperial Bonita Estates Bridge has been replaced by Lee County and the Orr Road Bridge will be removed. SFWMD has completed construction of the Kehl Canal weir under Phase I of the project. SFWMD is currently acquiring land for restoration under Phases II and III. The local sponsor for the project is SFWMD. (USACE and SFWMD, 2002)

### **Lake Trafford Restoration**

This project includes a lake-wide organic sediment removal from Lake Trafford near Immokalee, Florida. Lake Trafford has poor water quality, extensive muck accumulations, loss of native submergent

plant communities, invasive plant infestations, algae blooms, and periodic fish kills. The degraded water quality and associated problems are attributed to excessive nutrient input from the lake's basin, which has caused eutrophication and a thick organic muck layer in the lake. The purpose of this feature is to preserve the headwaters of the Corkscrew Swamp and Camp Keais Strand. The water quality of the lake affects these wetland resources that have been targeted for protection. These wetlands drain into important estuarine systems such as Estero Bay and Cape Ramono-Ten Thousand Islands Aquatic Preserve. Lake Trafford is an integral contributor to the sheetflow that traverses such areas as the CREW and the Fakahatchee Strand Preserve State Park area. The quality of the lake and the associated watershed affects important wildlife species and offers a sanctuary for migrating birds. As the only major natural lake in southwest Florida, Lake Trafford provides a sanctuary during the dry season. Recreation and fishing are also important in the lake. The USACE has obtained geotechnical and topographic site information and developed detailed design. The local sponsor for the project is SFWMD, Big Cypress Basin. Project implementation began in 2005 with completion expected in 2008. (USACE and SFWMD, 2002, Janet Starnes, SFWMD, personal communication)

### **Tamiami Trail Culverts**

This project is located on the Tamiami Trail (US-41) in Collier County between SR 92 (Collier Seminole State Park) to the west and 50 Mile Bend to the east (roughly 43 miles). Project begins roughly 50 miles west of Miami and continues for 43 miles to the east. It is sponsored by the South Florida Water Management District. This project will help restore a more natural hydropattern to the southern Big Cypress Basin and coastal areas to the south. The Big Cypress swamp is a national preserve encompassing some 729,000 acres. Construction should be complete in late 2005.

In 1928 the Tamiami Trail (US-41), an east-west route, was completed between Miami and Naples, Florida. To construct the road, a borrow canal was excavated on the northern side of the road bed. The effect of the road and adjacent borrow canal has been to intercept existing flowways to the Big Cypress National Preserve, and channelize flows through only a very few bridges/culverts. Currently, due to the channelization of flowways, some wetland habitats receive too much fresh water, while others do not receive enough. Also, the seasonal hydropatterns (quantity, timing, and distribution of surface water flows) are interrupted. It is important to increase the number of flowways to restore a more natural hydropattern. The project would provide improved habitat for plants and animals that live in the Everglades communities by restoring wetlands and decreasing the spread of exotic plants, which are able to establish when hydroperiods are reduced. This project will improve the natural sheet flow of surface water within the watersheds of Ten Thousand Islands National Wildlife Refuge & Aquatic Preserve, Southern Golden Gate Estates, Fakahatchee Strand State Preserve, Big Cypress National Preserve, and Everglades National Park.

This project was split into two phases. Phase one, which goes from CR92 east of SR29, is complete. Phase II extends from SR29 east to the Miami-Dade County line. Phase II does not have funding and is not currently scheduled to begin before 2010. (USACE and SFWMD, 2002, Carla Palmer, SFWMD, personal communication).

## **A4 RESIDENTIAL CANAL STUDIES BETWEEN 1976 AND 1980**

### **Residential Canals and Canal Networks: Design and Evaluation**

*Morris, F.W. 1981. Residential Canals and Canal Networks: Design and Evaluation. Sea Grant Project No. R/OE-4 Report 43.*

The report was prepared for design engineers, developers, and regulatory agency personnel for the purposes of designing new canal systems or rehabilitating existing ones. It describes the rational approach to canal design, the basic theory describing canal hydrodynamics and dispersion, guidelines for canal design, site survey, canal design elements, and a procedure for evaluating an existing or proposed canal network.

### **Hydrographic, Water Quality and Biological Studies of freshwater canal systems, of South Carolina**

*USEPA. 1982. Hydrographic, Water Quality and Biological Studies of freshwater canal systems, of South Carolina. USEPA Environmental Services Division. Athens, Georgia.*

The primary objective of this study was development of guidelines to assess potential environmental impacts which might be associated with a canal system along the Tennessee-Tombigbee waterway. Technical studies were initiated to establish a data base. Principal study areas were in Lakes Marion and Moultrie, South Carolina; Astor Florida (on the St. Johns River), and Columbus Mississippi. A site was also investigated at Lake Hatchineha in North Central Florida. Study design included the following specific objectives; assess quality of aquatic community associated with dead-end freshwater canals, determine DO dynamics, determine hydrographic features of dead-end freshwater canals, assess potential for nuisance plants and phytoplankton, and assess septic tank impact on water quality.

### **Report of Investigation of the Environmental Effects of Private Waterfront Canals**

*Barada, W. and W. Partington. 1972. Report of Investigation of the Environmental Effects of Private Waterfront Canals. Florida Conservation Foundation, Inc. Winter Park, Florida.*

“The purpose of the study is to determine the impact of canal-type waterfront developments upon Florida’s environment and the ways in which they affect the public interest. This survey was commissioned by the Trustees of the Internal Improvement Fund as background in determining new state policy.”

Available data were primarily derived from water quality studies in conjunction with other projects and results are intermixed with numerous agency field reports. Those data were supplemented with observations requested and received from federal, state, regional, county and local professionals from government and private organizations. A special test for gas gangrene organisms in bottom sediments of Tampa Bay area canals was made and results presented.

“Determinations presented are a synthesis of information gathered from a wide variety of sources. Only those points which represent the consensus of professionals in this field, or which are supported by research data, are presented.”

Chapters cover finger fill canals, upland canals, sources of pollution, effects on public health and welfare, effects of canals on underground water supplies, effects on receiving waters, and economic impact of canal-type developments. Many adverse effects of canals are documented and summarized.

### **Water in Motion in Closed-End Canals**

*McKeehan, D.S. 1975. Water in Motion in Closed-End Canals. Rosenstiel School of Marine and Atmospheric Science. Miami, Florida. Technical Report.*

The study objective was to verify and expand on the theory that water motion in canals is based on wind and tide-induced currents and associated dispersion. An extensive field study was carried out in Martinique Waterway at Marco Island, and one additional experiment in Bittern Waterway, Naples. Data analysis indicated that Martinique water motion was caused by the combined effects of gravity currents, thermal convection, wind and tide, with gravity currents induced by salinity variation from the Marco River being the primary cause of motion. Discussion of experimental results is preceded by a brief review of the theory of water motion in closed-end canals.

## A5 FDEP REGULATED FACILITIES

### Hazardous Waste Generators Within The Study Area

Information corresponds with locations shown in Figure 35. Source: FDEP Statewide Coverage of Compliance and Enforcement Tracking for Hazardous Waste Facilities, August 2005. Some attributes have been removed from table for display purposes.

HANDLER_ID	NAME	ADDRESS1	CITY	REL_FEAT	COL_METH	COORD_ACC	VER_METH	VER_PROG
FLR000120063	VALENCIA GOLF COURSE	11705 DOUBLE EAGLE TRL	NAPLES	ENTRA	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000101501	BETTER ROADS INC	1910 SEWARD AVE	NAPLES	APPRX	GGPS	6		HAZARDOUS WASTE
FLD040978702	R & R AUTOMOTIVE INC	3827 ARNOLD AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD982116139	COURTHOUSE SHADOWS CLEANERS	3388 TAMIAMI TRAIL EAST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD004146486	NAPLES PRINTING CO	FIVE 12 STREET NORTH	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984184978	COLLIER CO PRODUCTION	2125 ANDREW AVE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984175083	COLLIER CO NAPLES TRANSPORTATION	5700 COUGAR LANE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000082313	SHERWIN WILLIAMS STORE #2049	3814 TAMIAMI TR E	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984214866	CROMWELLS FURNITURE REFINISHING	5743 WASHINGTON ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984214858	LEAR SIEGLER MSC	2975 COUNTY BARN RD	NAPLES	APPRX	AGPS	4	DPHO	HAZARDOUS WASTE
FLD982171258	K & S DETAIL & BODY SHOP	4365 ARNOLD BLDG A	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982160541	JEAN SENECA CRAFTSMAN	365 MCKINLEY ST	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982110025	FOXFIRE	1030 KINGS WAY	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984240127	PRIMETEC INC	2900 S HORSESHOE DR #500	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982101941	DRAPERY CENTER INTERIORS	940 5TH AVE NORTH	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000871855	BUMPER TO BUMPER AUTO CENTER INC	1875 SEWARD AVE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984223453	SUPERAMERICA OF FLORIDA #8006	4600 BAULINE RD	NORTH FORT MYERS	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982096356	NAPLES IMPORTS VOLVO	40 GOODLETTE RD N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984251504	CIRCLE K #4755	8600 RADIO RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982138125	TRANZ PRO NAPLES AUTO CARE	3030 DAVIS BLVD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984189464	JONS AUTO SERVICE INC	5741 WASHINGTON ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982161929	UNCLE BOBS SCREEN PRINT	1410 PINE RIDGE ROAD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984225540	SANIBEL CHEVRON	1015 PERIWINKLE WAY	SANIBEL	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000100552	CIRCUIT CITY STORES INC	5052 AIRPORT RD	NAPLES	APPRX	GGPS	6		HAZARDOUS WASTE
FLD084541598	SOUTHWEST POOL SERVICES INC	3420-A WESTVIEW DRIVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000060848	SHAW AREO DEVICES	3580 SHAW BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000100107	AIR TECHNOLOGY ENGINES INC	2884A S HORSESHOE DR	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE

HANDLER_ID	NAME	ADDRESS1	CITY	REL_FEAT	COL_METH	COORD_ACC	VER_METH	VER_PROG
FLR000002873	DIAGNOSTIC SERVICES INC	340 S GOODLETTE RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000002964	SUPERIOR AUTO BODY & PAINT INC	4584 ARNOLD AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD981758501	GOODYEAR AUTO SERVICE CENTER	2241 SOUTH TAMiami TRAIL	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982109845	NAPLES BEACH HOTEL & GOLF CLUB	851 GULF SHORE BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984243659	HOME DEPOT #280	5400 EDGEWOOD RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000014233	NAPLES DAILY NEWS	1075 CENTRAL AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000114421	DE OCA PROPERTY	2861 22ND AVE NE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982095507	ARPCO	3064 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984167544	MOORINGS DRY CLEANERS	1833 N TAMiami TRI	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982109464	LEISURE FURNITURE & VINYL SERVICE	16990 OLD HWY 41 BOX 1 & 2	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982115172	REGISTRY RESORT	475 SEAGATE DRIVE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982110199	SUNCOAST STEEL CORP	3684 ENTERPRISE AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD000654715	MOBIL OIL CORP SS# A21	3391 9TH ST N	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984239830	OKLAHOMA INSTALLATION CO	1798 N TAMiami TR	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982085953	PARAMOUNT COATINGS	524 INDUSTRIAL BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000090407	GOLDEN GATE SUBSTATION	4001 15TH AV SW	NAPLES	APPRX	AGPS	0		HAZARDOUS WASTE
FLD982105413	NAPLES NISSAN INC	1229 AIRPORT RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000120055	P T GATOR SCREEN PRINTING INC	4027 EXCHANGE AVE	NAPLES	ENTRA	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000051136	HOMERS AUTO AIR INC	2440 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000090654	ALLIGATOR SUBSTATION	DAVIS BLVD 4 MILES WEST OF SR	NAPLES	APPRX	AGPS	0		HAZARDOUS WASTE
FLR000119636	TAYLOR RENTAL/PARTY PLUS	4472 CORPORATION SQUARE	NAPLES	ENTRA	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000067678	YODERS BODY SHOP & TOWING	2068 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000059931	NAPLES BATTERY & ALTERNATOR EXCHANGE INC	3637 PROSPECT AVENUE-B	NAPLES	EXACT	GGPS	4	DPHO	HAZARDOUS WASTE
FLR000058776	QUALITY COLLISION	4022 GREEN BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000054379	ZULMAN AUTO AIR PARTS AND GENERAL REPAIR	3906 EXCHANGE AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000061259	MIKE HATFIELDS	2190 CORPORATION BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000104745	CARLOS DIAZ	211 7TH ST SW	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984187435	PLATINUM COAST DRY CLEANERS	5492 RATTLESNAKE HAMMOCK RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000069641	DIVE SHOP	620 10TH ST S	NAPLES	VICIN	MMAP	0		HAZARDOUS WASTE
FLR000071217	WOOLLEYS PHARMACY	3761 E TAMiami TRL	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000076588	TROPICAL GARDENS INC	920 6TH AVE N	NAPLES	VICIN	MMAP	0		HAZARDOUS WASTE
FLD982167942	LAKEWOOD COUNTRY CLUB	4235 LAKEWOOD BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000029678	CLEANER IMAGE ONE PRICE EAST	3883 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000347211	WASTE MGT OF COLLIER COUNTY	4500 EXCHANGE AVE	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE

HANDLER_ID	NAME	ADDRESS1	CITY	REL_FEAT	COL_METH	COORD_ACC	VER_METH	VER_PROG
FLD984173336	TEXACO #240210647	1863 9TH ST N US 41	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984202226	MOBIL OIL CORP SS# A0F	4577 EXECUTIVE DR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984218701	MIKES TRUCK & AUTO INC	1920 ELSA ST	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000077735	OLDE NAPLES INN & SUITES	801 3RD ST S	NAPLES	VICIN	MMAP	0		HAZARDOUS WASTE
FLR000082776	COLLIER SUBSTATION	7101 GOLDEN GATE PKWY	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984196766	A A AUTO	5640 TAYLOR RD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981757636	BOB TAYLOR CHEVROLET INC	1911 EAST TAMIAMI TRAIL	NAPLES	VICIN	MMAP	0		HAZARDOUS WASTE
FLR000034827	ONE PRICE DRY CLEANERS	4176 TAMIAMI TRAIL N	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982165896	LELY ROYAL PALM COUNTRY CLUB	400 FOREST HILLS BOULEVARD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD981749567	HEAVY EQUIP REPAIR SERVICE	5501 SHIRLEY ST	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD044024339	DICK DEVOE BUICK CADILLAC INC	4100 TAMIAMI TRAIL NORTH	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982149080	CABLE USA INC	2584 SO HORSESHOE DR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD000653667	SUNOCO SERVICE STATION	8901 DAVIS BLVD EXT	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000019612	RENTAL SERVICE CORP	1931 J & C BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000022517	ERICS OUTBOARD SERVICE INC	4470 RADIN RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984246017	TRANZ PRO TRANSMISSIONS	2121 PINE RIDGE RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982090656	BEARS PAW COUNTRY CLUB	2500 GOLDEN GATE PARKWAY	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984169789	NATIONAL ENERGY CORP	200 W ENTERPRISE AVE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984223289	SUPERAMERICA OF FLORIDA #8016	3695 TAMIAMI TR	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982115263	NAPLES MARBLE CO	3963 PROGRESS AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984186924	CAPELLE & CO INC	1900-B ELSA ST	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000094789	J & A PICKARD CUSTOM FINISHING	4284 ENTERPRISE AVE #3B	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984196881	MACIAS & SON AUTO REPAIRS	5615 TAYLOR RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000045708	ONE HOUR DRY CLEANERS	9853 TAMIAMI TR N	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000093138	FASHION FRESH DRY CLEANERS	5979 PINE RIDGE RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982118895	MERLS BODY SHOP	1406 PINE RIDGE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD981757297	DAVE TOWELL CHRYSLER PLYMOUTH	2640 NORTH TAMIAMI TRAIL	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984257857	T & R AUTO BODY	5301 YAHL ST	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984223305	SUPERAMERICA OF FLORIDA #8042	1900 ISLE OF CAPRI SOUTH RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982085227	D & P AUTO BODY SHOP	16990 OLD US 41	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000069559	SANDPIPER PLAZA	1720 TAMIAMI TRL E	NAPLES	VICIN	MMAP	0		HAZARDOUS WASTE
FLR000110049	SPECTRUM CONTRACTING INC	2654 S HORSESHOE CT	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000115279	GERMAIN ACURA OF NAPLES	659 AIRPORT PULLING RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000061937	BAY COLONY COMMUNITY ASSOC	8700 BAY COLONY DR	NAPLES	VICIN	MMAP	0		HAZARDOUS WASTE
FLR000065383	DOUG BRANN PAINT & BODY REPAIR	3984 PROGRESS AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE

HANDLER_ID	NAME	ADDRESS1	CITY	REL_FEAT	COL_METH	COORD_ACC	VER_METH	VER_PROG
FLD982146060	GULF COAST PRESS	1401 PAGLES RD	BONITA SPRINGS	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984242420	EAGLE AUTOMOTIVE	3838 ARNOLD AVE	NAPLES	EXACT	ADDM	4	DPHO	HAZARDOUS WASTE
FLD982080905	SEARS ROEBUCK & CO	2000 9TH ST N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982082869	RIVIERA GOLF CLUB	163 ESTELLE DR	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984250456	CIRCLE K #7331	5000 RADIO RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000038059	CREATIONS OF NAPLES	1826 TRADE CENTER WAY	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981753320	ROBBINS RADIATOR	578 10TH ST N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984202200	MOBIL OIL CORP SS# HYL	10121 N TAMIAMI TR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984196774	BAKERS AUTO TRANSPORT & WRECKER INC	5643 TAYLOR RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD000613638	ASGROW FLORIDA CO	NEW MARKET RD	IMMOKAL EE	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984205658	DEVOE BUICK IZUSU INC	1411 SOLONA RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982084915	NAPLES EQUIP MGT, CITY OF	375 13TH STREET NORTH	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984203067	MOBIL OIL CORP SS# 585	3300 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984216143	CONTINENTAL ELEVATOR CABS & ENTRAN	6089 TAYLOR RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD000611962	EVANS GAS INC	1190 FIRST AVENUE SOUTH	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981466923	MAACO AUTO PAINTING	1301 AIRPORT ROAD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981756414	SYNTHETEX INC	1790 40TH TERRACE S W	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD000654079	SUNOCO SERVICE STATION	2896 S TAMIAMI TR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000100206	GULF COAST AMERICAN BLIND CORP	4206 ARNOLD AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD040985756	HAYNES CORP	3581 MERCANTILE AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD984223313	SUPERAMERICA OF FLORIDA #8033	3900 PINE RIDGE RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000338251	COLLIER COUNTY FLEET MANAGEMENT	2901 COUNTY BARN RD #2	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLR000083774	FIRST IMPRESSION CLEANERS	4937 RATTLESNAKE HAMMOCK RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000096644	AMERICAN HERITAGE WOOD PRODUCTS	3650 SHAW BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000080507	HONESTY AUTO REPAIR	5585 SHIRLEY ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984167064	COLLIER CO POLLUTION CONTROL DEPT	3301 TAMIAMI TR	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000096669	COMMERCIAL CRYSTAL LABORATORIES INC	4406 ARNOLD AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD982109969	HIGH POINT COUNTRY CLUB	1100 HIGH POINT DRIVE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981925514	GULF COAST AVIATION	479 INDUSTRIAL BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981918873	WASTE HAULERS OF NAPLES	4227 ENTERPRISE AVE BAY C	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000780759	GOLFBALLS GALORE	2181 J&C BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000109611	FIRST CLASS AUTO WHOLESALE INC	2415 AVONDALE ST	NAPLES	APPRX	WGPS	6		HAZARDOUS WASTE

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FLR000079012	CITY CENTER PLAZA	850 6TH AVE N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000105734	MW CONSTRUCTION CO INC OF NAPLES	6201 LEE ANN LN	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000080895	YODERS BODY SHOP	2068-B DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000044065	WAL MART #1119	3451 TAMIAMI TR EAST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD980559801	SUN EX & PROD CO FELDA TR 29	10 MILES N IMMOKALEE	FORT MYERS	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984176438	NAPLES CITY OF	275 13TH ST N	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD981019219	SOUTHWEST POOL SERVICES INC	3727 PROSPECT AVENUE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FL0000145094	EAGLE AUTOMOTIVE INC	4824 MARKET AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981755531	DON OLSON FIRESTONE	4900 N TAMIAMI TRAIL	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982138182	ELITE AUTO CENTER	938 3RD AVE N(US 41)	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000115774	TIRE KINGDOM INC #48	4757 GOLDEN GATE PKWY	GOLDEN GATE	APPRX	ADDM	6		HAZARDOUS WASTE
FLD982118630	COLLIER CO PUBLIC SCHOOLS	5702 COUGAR LANE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982081424	SOUTH FLORIDA PAINTING	3973 ARNOLD AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000137315	GROVER WHITEHEAD PAINTING	1911 PINE RIDGE RD BLDG B #7	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD057972754	Y AHL BROTHERS DISPOSAL	5515 Y AHL STREET	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000098772	O'GREEN CONCRETE PUMPING CO	6220 TAYLOR RD # 102	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000054734	MATCHS AUTO BODY	1370 PINE RIDGE RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000043406	ICI DULUX PAINTS	5430 Y AHL ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000093047	WEST COAST CONCRETE PUMPING INC/NAPLES VENTURE GROUP	5911 TAYLOR RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000104752	DIXONS TOWING/MORLEYS TOWING OF NAPLES INC	3968 20TH PL SW	NAPLES	EXACT	DGPS	6	DPHO	HAZARDOUS WASTE
FLD982106387	JERRYS CLEANERS INC	842 6TH AVE SO	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981758857	CABLEWARE TECHNOLOGY	900 INDUSTRIAL BLVD	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD982077240	K MART	3701 TAMIAMI TRAIL	EAST NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984245340	SUPERAMERICA OF FLORIDA #8018	2493 TRADE CENTER WAY	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000062216	CARLOS U JUAREZ	3437 WESTVIEW DRIVE UNIT #16	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984202218	MOBIL OIL CORP SS# 452	31 9TH ST N	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982170664	ROSE BOAT & ENGINE WORKS	2775 BAYVIEW DRIVE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984239384	APAC FLORIDA INC	911 5TH ST SW	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD980798771	FLORIDA DOT NAPLES MAINT YARD	4800 DAVIS BOULEVARD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982105470	NAPLES DODGE INC	850 9TH ST N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000109629	KRAFT CONSTRUCTION COMPANY INC	2606 S HORSESHOE DR	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE

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FLD982101883	BRATHERS	1095 FIFTH AVENUE SOUTH	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000145359	SUNSHINE MOWER & CYCLE	1100 1ST AVE S	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984175109	COLLIER CO J L WALKER VO CENTER	3702 ESTEY AVE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000083212	HUGHE SUPPLY	3400 PROGRESS AVE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984188532	BAKER CUSTOM CABINET & MILLWORK	168 COMMERCIAL BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982101768	1 HOUR PROFESSIONAL DRY CLEANER	3050 TAMIAMI TR N	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982141228	ELLIPSIS INC	1901 J&C BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000071944	COLLIER CNTY ANIMAL CONTROL (FORMER)	7077 AIRPORT RD N	NAPLES	APPRX	MMAP	4	DPHO	HAZARDOUS WASTE
FLR000067348	NAPLES SALVAGE INC	3635 RADIO RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000052365	FASHION FRESH DRY CLEANERS	1926 TRADE CENTER WAY	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000110023	SPECTRUM CONTRACTING INC	2629 S HORSESHOE DR	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000855353	FIBEROPTICS TECHNOLOGY INC	4000 DOMESTIC AVE	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000075341	ERP/SW/NAPLES BAY/COCONUT GROVE ON NAPLES BAY	1001 10TH AVE S	NAPLES	CENTR	MMAP	4	DPHO	HAZARDOUS WASTE
FLD982109605	WINDSTAR COUNTRY CLUB	4363 FERN ST	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000110445	THE BOAT PLACE OF NAPLES INC	2540 DAVIS BLVD	NAPLES	ENTRA	WGPS	6		HAZARDOUS WASTE
FLR000044974	THE CONSERVANCY OF SOUTHWEST FLORIDA	1450 MERRIDUE DR	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000064436	LOWES HOME CENTERS INC	6415 NAPLES BLVD	NAPLES	APPRX	DPHO	3	DPHO	HAZARDOUS WASTE
FLR000065979	DISCOUNT AUTO SERVICE	2441 KIRKWOOD AV	NAPLES	APPRX	GGPS	0		HAZARDOUS WASTE
FLR000107763	BARLEY PAINTS	6300 TAYLOR RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000033936	MIKE HATFIELDS AUTO BODY INC	5830 HOUCHIN ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984202796	MOBIL OIL CORP SS# 554	6770 NW CLEVELAND AVE	NORTH FORT MYERS	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000015453	WINN DIXIE #743	4849 GOLDEN GATE PKWY	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984231993	BERKSHIRE DRYCLEANING INC	7055 RADIO RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD101224103	SHAW AERO DEV INC	4227 PROGRESS AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD984263384	COLLIER CO RD SECTION	2901 COUNTY BARN RD	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD984258830	AERIAL PAINTING & CONTRACTING INC	4492 MERCANTILE AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984196816	COUNTY AUTO RANCH	PO BOX 1753	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000102087	BARBOUR BILT	1240 INDUSTRIAL BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000033787	MID-CONTINENT ELECTRIC INC	3663 ARNOLD AVENUE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000635623	UPS	971 COMMERCIAL BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984203075	MOBIL OIL CORP SS# JGR	8901 N TAMIAMI TR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982096521	COUNTRY CLUB OF NAPLES	185 BURNING TREE DRIVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE

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FLD984217646	ARTHREX MANUFACTURING INC	2900 S HORSESHOE UNIT 700	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984245720	JERRY FISHERS PRINTING	5325 JAEGER RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982115818	BEACH VIEW GOLF CLUB	856 DONAX	SANIBEL	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000003145	AMERICAN UNDERGROUND UTILITIES	4584 ENTERPRISE AVE #1	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984260836	PRESTIGE PRINTING	4551 ARNOLD AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLR000088682	TWO AUGUSTE SISTERS INC	5910 TAYLOR RD BLDG 204	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984253054	CIRCLE K #7332	4744 GOLDEN GATE PKWY	GOLDEN GATE	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984207225	ACE TRANSMISSION OF NAPLES INC	1200 CENTRAL AVE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982162042	SCREEN PRINTING UNLIMITED	1401 WESTVIEW DR	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984211482	AMOCO SERVICE STATION #4379	8901 DAVIS BLVD EXT	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982082059	FASHION FRESH DRY CLEANERS	1230 AIRPORT RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984260810	VALVOLINE INSTANT OIL CHANGE	2332 TAMIAMI TR E	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984203034	MOBIL OIL CORP SS# 633	3777 TAMIAMI TR E	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982164550	MARCO SHORES GOLF & COUNTRY CLUB	1200 MAINSAIL DR	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984187880	TOWNE CENTRE CLEANERS	3808 E TAMIAMI TR	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD981925571	PARKER SEAL	1429 DON ST	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000098731	URIBE AUTO REPAIR INC	5562 SHIRLEY ST	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000099879	PATRICIOS TRUCKING INC	6323 TAYLOR RD	NAPLES	APPRX	GGPS	6		HAZARDOUS WASTE
FLD984223297	SUPERAMERICA OF FLORIDA #8004	1033 AIRPORT RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD981751159	CENTRAL NAPLES TEXACO	694 9TH STREET NORTH	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982160301	QUAIL RUN COUNTRY CLUB	1 FOREST LAKE BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000034504	FLORIDA C WATER CO - GOLDEN GATE WWTP	4931 32ND AVENUE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000118901	CARSMETICS	2121 PINE RIDGE RD	NAPLES	APPRX	ADDM	6		HAZARDOUS WASTE
FLR000071068	ARBYS RESTAURANT	2390 9TH ST N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000059337	COSTCO WHOLESALE #354	6275 NAPLES BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000083956	ESTEY QUALITY CLEANERS	1249 AIRPORT RD S	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984175745	FENTON DAVIS PAINTING INC	1900 J&C BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982130346	GOLDEN GATE GOLF COURSE	GOLF COURSE MAINTENANCE BLDG	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000099754	SCHWAB RADY MIX INC	6300 SHIRLEY ST	NAPLES	EXACT	GGPS	4	DPHO	HAZARDOUS WASTE
FLR000099804	CREATIONS OF NAPLES INC	5751 HOUCHIN ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982082745	TIRE KINGDOM	4772 TAMIAMI TRAIL NORTH	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000108779	FLORIDA POWER & LIGHT SOLANA SUBSTATION	1405 SOLAN RD	NAPLES	APPRX	ADDM	6		HAZARDOUS WASTE
FLD981472095	ECONOMY BODY SHOP INC	2240 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE

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FLD984211474	AMOCO SERVICE STATION #60099	151 AIRPORT RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982101701	HARVEYS DRY CLEANERS	2638 TAMIAMI TRAIL S E	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984202770	MOBIL OIL CORP SS# F42	1220 N CLEVELAND AVE	NORTH FORT MYERS	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982170557	CROWN DRY CLEANER	1913 CR 951	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982148140	GLADES COUNTRY CLUB	174 TERYL RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD052825361	ZIEBART NAPLES	1229 N AIRPORT ROAD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984214841	SUPREME AUTO CENTER	938 4TH AVE N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982171993	AUTO GALLERY BODY SHOP INC	3164 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000010207	DEFENSE RESEARCH INC	3784 MERCANTILE AVE	NAPLES	VICIN	MMAP	0		HAZARDOUS WASTE
FLD982150062	SIGNCRAFT	3661 MERCHANTILE AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD981750524	JERRYS CLEANERS NORTH	5075 TAMIAMI TRAIL N	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000027128	FUTURE AVIATION INC	1224 INDUSTRIAL BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982164493	MOORINGS COUNTRY CLUB	2500 CRAYTON RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982167363	KRAMERS COACHWORKS AND BESTORATIONS	5830 HOUCHIN ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982081267	NORTH COLLIER COLLISION INC	16210 OLD US 41 S	NORTH NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982143927	REGENCY FARMS	1230 IMMOKALEE RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000099853	MAACO AUTO PAINT & COLLISION	3500 PROSPECT AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000002824	EAGLE CREEK DRY CLEANERS INC	1208 TAMIAMI TR E #23	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982140741	PINE LAKES COUNTRY CLUB	205 CHARITY CT	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD101988012	AIR TECHNOLOGY ENGINES	3030 HORSESHOE DR S	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982142242	CUSTOM HOUSE ENTERPRISES	6001 TAYLOR ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982117665	PINE RIDGE AUTO CENTER	1687 PINE RIDGE ROAD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982115511	GOLDEN GATE INN COUNTRY CLUB	4100 GOLDEN GATE PARKWAY	GOLDEN GATE	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984184903	FASHION FRESH DRY CLEANERS	5329 AIRPORT RD N	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000962332	RICK GOOD SERVICING	525 PRODUCTION BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000089128	TONYS AUTOMOTIVE PAINT & BODY WORK INC	1890 ELSA ST	NAPLES	APPRX	AGPS	0		HAZARDOUS WASTE
FLD096084702	B & E AUTO BODY SHOP	3410 WEST VIEW DR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984196873	M & P MOTORS	5621 TAYLOR RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982126526	SANTA BARBARA COIN LAUNDRY	2787 55TH ST SW	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984227678	C H MOTORCARS	2500 S HORSESHOE DR	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD982100992	GERMAIN TOYOTA BMW	3835 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE

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FLR00009795	1200 MINGO DRIVE PROPERTY	1200 MINGO DR	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000044677	NAPLES DODGE	6381 AIRPORT RD N	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982116162	TRI W RENTAL	5550 TAYLOR RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982078222	ALPHA OMEGA BUSINESS SYSTEMS	2740 BAYSHORE DR #5	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982115453	HOLE IN THE WALL GOLF CLUB	P O BOX 7217	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984189001	COLLIER MOSQUITO CONTROL DIST	600 N RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000094722	HOME DEPOT #6348	1651 S AIRPORT PULLING RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982097412	H & L AUTO BODY SPECIALIST INC	3863 ENTERPRISE AVENUE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984260828	NAPLES TUNE AND LUBE INC	2241 E TAMIAMI TR	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982130726	NAPLES RENT ALL & SALES CO	2600 DAVIS BLVD	NAPLES	ENTRA	WGPS	3		HAZARDOUS WASTE
FLD071300339	TAMIAMI FORD INC	4075 N TAMIAMI TRAIL	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000071209	SUNSHINE PHARMACY	5482 RATTLESNAKE HAMMOCK RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984230953	MOBIL OIL CORP SS# J66	3701 SANTA BARBARA	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000099846	NAPLES COMM HOSPITAL FLEET	2157 PINE RIDGE RD	NAPLES	EXACT	DGPS	4	DPHO	HAZARDOUS WASTE
FLD982160079	HIBISCUS GOLF CLUB	175 DORAL CIRCLE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000069997	MID-CONTINENT ELECTRIC INC	4586 PROGRESS AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD000654772	SUNOCO SERVICE STATION	40 9TH ST N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000067512	COHASSET AUTO BODY SOUTH	1730 40TH TER SW	GOLDEN GATE	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000108761	SAMMY SUDS	9 TH ST SW	GOLDEN GATE	APPRX	WGPS	6		HAZARDOUS WASTE
FLD984178673	FEDERAL EXPRESS CORP	3885 MERCANTILE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLR000059949	SUPERIOR TRUCK SALES & SERVICE INC	3637 PROSPECT AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981758444	DEVOE PONTIAC GMC	2601 AIRPORT RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981473234	WOOLLEYS RADIATOR & GLASS SERVICE	1920 ELSA ST SUITE A	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982129090	NAPLES COMMUNITY HOSPITAL INC	350 7TH ST N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000031963	TAMIAMI FORD	4648 MERCANTILE AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984182816	JIFFY LUBE	4840 GOLDEN GATE PKWY	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982105355	REGENCY AUTOHAUS INC	2625 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD000733717	FPL NAPLES SERVICE CENTER	366 12TH ST N	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984214874	FARM OP INC #7	21 6 L'S FARM RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD981757511	PILCHER AUTO REBUILDERS	4373 ARNOLD AVE	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982147951	Z CLEANERS GULF GATE PLAZA	2638 TAMIAMI TRAIL E	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984184747	BARRON COLLIER HIGH SCHOOL	5600 COUGAR DR	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984251884	CIRCLE K #4321	10521 SPRINGFELLOW	PINE ISLAND	VICIN	ADDM	0		HAZARDOUS WASTE

HANDLER_ID	NAME	ADDRESS1	CITY	REL_FEAT	COL_METH	COORD_ACC	VER_METH	VER_PROG
FLD984200352	EURO TECH MOTORS II	3375 WESTVIEW DR	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000009142	SUN LITE INC	2154 CORP BLVD UNIT C	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR0000096347	UNIVERSAL PAINTING	4484 ARNOLD AVE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984243121	C & B MAY INC	2254 TRADE CENTER WAY	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR0000071191	GULFSHORE PHARMACY	1400 GULFSHORE BLVD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR0000082925	SHERWIN WILLIAMS STORE #2426	4724 EXCHANGE AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984168567	K MART	3701 TAMIAMI TRAIL E	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982169328	JULOMAR DRY CLEANERS	4890 DAVIS BOULEVARD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984260802	PHOTO USA	1944 TAMIAMI TR N	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982142804	PERFORMANCE TIRE & WHEEL	2111-B PINE RIDGE ROAD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982140121	MORGAN BOATS INC	3409 W VIEW DR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984187674	NAPLES AUTO BODY	2240 J & C BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981755655	GOODYEAR	2085 E TAMIAMI TR	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD096094065	SHERWIN WILLIAMS CO	126 NINTH ST - S	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984203059	MOBIL OIL CORP SS# A20	2898 E TAMIAMI TR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984256636	AAMCO TRANSMISSIONS	190 10TH ST N	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982079006	COLLIER CO PRINTING CO	995 2ND AVE N	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FL0000479964	FENTON DAVIS PAINTING INC	5900 TAYLOR RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984184911	NAPLES HIGH SCHOOL	1100 22ND AVE N	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR0000082792	NAPLES SUBSTATION	366 12TH ST	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR0000083337	CAPRI SUBSTATION	2099 SR 951	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000104067	NAPLES PATHOLOGY ASSOC	4351 TAMIAMI TRAIL N	NAPLES	APPRX	ADDM	6		HAZARDOUS WASTE
FLR000115378	SATURN OF NAPLES	425 N AIRPORT PULLING RD	NAPLES	ENTRA	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000012229	PENSKE AUTO CENTER	4383 N TAMIAMI TR #1	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984259655	BOB TAYLOR CHEVROLET INC	5665 N AIRPORT RD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR0000072751	DESIGN GALLERY INC	1791 TRADE CENTER WAY	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR0000083204	SHERWIN WILLIAMS #2002	3960 N TAMIAMI TR	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR0000065375	COLLIER CTNY REGIONAL WTP NORTH	7008 VANDERBILT RD EXTENISON	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR0000069575	G & F EXCAVATING	2611 N WILSON BLVD	NAPLES	APPRX	GGPS	0		HAZARDOUS WASTE
FLR0000078972	THE BETTER BODY SHOP & USED CAR FACTORY INC	501-B AIRPORT ROAD S	NAPLES	APPRX	GGPS	0		HAZARDOUS WASTE
FLR000032862	WALGREENS #1662	4673 9TH ST N	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD982096067	CLUB AT PELICAN BAY	801 LAUREL OAK DRIVE SUITE 500	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000101527	ALVAREZ SITE DEVELOPMENT INC	6244 LEE ANN LA	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984262097	ROSE BOAT & ENGINE WORKS	4427 MERCANTILE AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982136467	STEEGO AUTO PAINT	5455 SHIRLEY ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE

HANDLER_ID	NAME	ADDRESS1	CITY	REL_FEAT	COL_METH	COORD_ACC	VER_METH	VER_PROG
FLD982114035	MUNICIPAL SUPPLY & SIGN CO	1095 5TH AVE N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000026922	RON KEPPLER AUTO BODY	3810 RADIO RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984209643	COLLIER CHRYSLER PLYMOUTH INC	301 AIRPORT RD S	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000068064	WORLD BOAT MANUFACTURING	2475 J & C BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984226654	SHELLERS FOREIGN CAR GARAGE	1324 INDUSTRIAL BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD096584198	WASTE MGT OF COLLIER CO	5515 YAHL STREET	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982126443	NAPLES MUNICIPAL AIRPORT	NAPLES MUNICIPAL AIRPORT	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982096406	WILDERNESS COUNTRY CLUB	101 CLUBHOUSE DR	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982093551	PBA	2800 ENTERPRISE ROAD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000006148	SPECTRUM CONTRACTING INC	2654 HORSESHOE COURT S	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD039649298	WYNDEMERE	700 WYNDEMERE WAY	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984260794	PHOTO USA	1800 TAMIAMI TR N	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000038588	LOOS & CO INC	901 INDUSTRIAL BLVD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984197095	TAYLOR ROAD AUTO CO	5310 TAYLOR RD	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FLD982161697	BAY MARINA INC	854 RIVERPOINT DRIVE	NAPLES	CENTR	AGPS	4	DPHO	HAZARDOUS WASTE
FLD982124448	K MART #3144	4383 N TAMIAMI TRAIL	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000005157	D C KERCKHOFF CO	1901 ELSA AVE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FL0000962324	NAPLES AWNING	6563 TAYLOR RD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982132961	SUNSET AUTO BODY & PAINTING	1900 ELSA ST BLDG C	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984206276	REGENCY AUTOHAUS INC	501 AIRPORT RD S	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984251538	CIRCLE K #7488	488 HUNTER BLVD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD981755473	DON OLSON FIRESTONE	3612 E TAMIAMI TRAIL	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984202234	MOBIL OIL CORP SS# A5T	2495 PINE RIDGE RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000067876	ADVANTAGE SOUTH	4424 CORPORATE SQUARE BLVD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000059352	NAPLES BODY & FENDER	5805 HOUCHIN ST	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981757354	GIBRALTAR TRANSMISSION	100 GOODLETTE RD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000010991	NAPLES RECYCLING CENTER	2640 ENTERPRISE AVE EXT	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000011650	FPL GOLDEN GATE	401 15TH AVE SW	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000003137	GERMAIN HONDA BMW	3703 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984187807	FORT MYERS COCA COLA BOTTLING CO	4306 EXCHANGE AVE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984244095	SERVICE PAINTING OF FLORIDA INC	3763 ENTERPRISE AVE	NAPLES	EXACT	AGPS	4	DPHO	HAZARDOUS WASTE
FL0000994939	MIKE GROTHE AUTO BODY INC	3800 PROSPECT AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000098269	HYDRAULIC HOSE & EQUIP CO	3490 ENTERPRISE AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982105637	RITZ CARLTON NAPLES	280 VANDERBILT BEACH RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000115717	TIRE KINGDOM INC #37	2455 TAMIAMI TRAIL	NAPLES	APPRX	ADDM	6		HAZARDOUS WASTE
FLD982115396	IMPERIAL GOLF CLUB INC	1808 IMPERIAL GOLF COURSE BLVD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE

HANDLER_ID	NAME	ADDRESS1	CITY	REL_FEAT	COL_METH	COORD_ACC	VER_METH	VER_PROG
FLR000021642	BODY WORKS	4377 DOMESTIC AVE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982128001	PINELAND MARINA	PO BOX 13	PINELAND	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000052704	BROADWAY CLEANERS	4951 N TAMIAMI TR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000059022	K2 DESIGN GROUP FINISH SHOP	3832 EXCHANGE AVE	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984241802	GRAPHIC IMPRESSIONS INC	5385 JAEGER RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984260844	PRECISION PREP & PRESS INC	5A 12TH ST N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984200196	FUTURE AVIATION INC	5935 TAYLOR RD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984225532	ROGERS MACHINE WORKS	2452 J & C BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984187468	TAMIAMI FORD INC	1471 N AIRPORT RD	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000118604	CARLOS MARTINEZ	160 19TH ST SW	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984202192	MOBIL OIL CORP SS# F7A	2201 N TAMIAMI TR	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982101826	A DUDA & SONS INC	RT 4	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD000613653	ASGROW FLORIDA CO	3706 PROGRESS AVENUE	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD098526049	MORLEYS AUTO BODY & TRIM SHOP	5401 YAHL STREET	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982078164	GRAPHIC IMPRESSIONS INC	3954 N TAMIAMI TRAIL	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000012773	BODY WORKS OF SW FLORIDA INC	4406 DOMESTIC AVE	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLR000081513	RICKS AUTOMOTIVE SERVICE INC	2225 J & C BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000065987	JACKSON TOTAL SERVICE INC	3727 ENTERPRISE AV	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982168841	COLLIER MOSQUITO CONTROL DIST	771 AIRPORT RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981866536	MORANDE MAZDA	8300 RADIO RD	NAPLES	VICIN	ADDM	0		HAZARDOUS WASTE
FLD984172866	TEXACO #240210765	3375 TAMIAMI TRAIL E	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000043927	DOUG BRANN PAINT & BODY REPAIR INC	4184 ARNOLD AVE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000052985	CLEVELAND CLINIC FLORIDA	6101 PINE RIDGE RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD982118317	ELECTRO BAKE AUTO PAINTING	3064 DAVIS BLVD	NAPLES	EXACT	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984251512	CIRCLE K #8813	155 VANDERBILT BEACH	NAPLES	APPRX	DPHO	4	DPHO	HAZARDOUS WASTE
FLR000109066	BARLEY PAINT/TIMBERCRAFT	6268 TAYLOR RD	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD981467541	WESTMINSTER FLORIDA II INC	1010 CENTRAL AVENUE	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE
FLD984245894	NAPLES AIRPORT AUTHORITY, CITY OF	160 AVIATION DR N	NAPLES	CENTR	DPHO	4	DPHO	HAZARDOUS WASTE

### Petroleum Storage Tank Facilities With Confirmed Discharges Within The Study Area.

Information corresponds with locations shown in Figure 35. Source: FDEP Petroleum Contamination Tracking, August 2005. Some attributes have been removed from the table for display purposes.

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_ W ATER	MNTR_ W ELL_	METHOD
JET ONE CENTER INC	377 CITATION POINT	NAPLES	OPEN	Fuel user/Non-retail	12/21/2002	30	NFA	Y	N	Y	N	AGPS
SITE FOOD MART #105	4612 9TH ST N	NAPLES	OPEN	Retail Station	12/6/1993	0	RA					DPHO
SHELL OIL	3695 TAMIAMI TRAIL	NAPLES	CLOSED	Retail Station	10/1/1992	10	ENTD					DPHO
VANDERBILT GULFSIDE CONDOMINIUM	10851 GULFSHORE DR	NAPLES	CLOSED	Fuel user/Non-retail	8/13/1997	10	ENTD	N	N	N	Y	DPHO
WINDSTAR COUNTRY CLUB	4343 YACHT HARBOR DR	NAPLES	OPEN	Fuel user/Non-retail	4/6/1992	11	SRCR	N	N	Y	Y	DPHO
BIG CYPRESS NATL PRESERVE	TRACT 025-05	OCHOPEE	CLOSED	Contamination Site	2/18/1999	0	RA	Y	N	Y	N	AGPS
MOBIL #02-J66	3701 SANTA BARBARA BLVD	NAPLES	OPEN	Retail Station	1/28/1992	6	SA					DPHO
COMBS FISH CO	1302 5TH AVE S	NAPLES	CLOSED	Marine/Coastal Fueling Location	12/4/2000	9	NFA	Y	N	Y	Y	DPHO
BP-GOLDEN GATE	11825 COLLIER BLVD	NAPLES	OPEN	Retail Station	12/17/1993	65	RA	N	N	N	Y	DPHO
CIRCLE K #7488	488 HUNTER BLVD	NAPLES	OPEN	Retail Station	12/30/1992	10	ENTD	N	N	N	Y	DPHO
FORMER CIRCLE K #7319	9601 N TAMIAMI TRL	NAPLES	CLOSED	Retail Station	3/29/1991	10	NFA	Y	N	N	N	DPHO
VANDERBILT BEACH MARINA	179 SOUTHBAY DR	NAPLES	OPEN	Marine/Coastal Fueling Location	4/15/1992	0	NFA	N	N	N	Y	DPHO
ECONOMY BODY SHOP	2240 DAVIS BLVD	NAPLES	CLOSED	Fuel user/Non-retail	3/1/1991	10	ENTD	Y	N	Y	N	DPHO
SHELL STATION	39 9TH ST N	NAPLES	CLOSED	Retail Station	7/13/1988	11	SRCR	N	N	N	Y	DPHO
FORMER CIRCLE K #7332/MEGA MUSIC STORE	4744 GOLDEN GATE PKY	GOLDEN GATE	CLOSED	Retail Station	11/23/1988	65	SRCR	Y	N	Y	Y	DPHO
MOBIL ALLIGATOR ALLEY	8900 DAVIS BLVD EXT E	NAPLES	OPEN	Retail Station	12/27/1988	10	RA	N	N	N	Y	DPHO
MOORINGS INC	120 MOORINGS PARK DR	NAPLES	OPEN	Fuel user/Non-retail	2/19/1991	75	SRCR	Y	N	Y	Y	DPHO
CLUB AT PELICAN BAY-MAINT FACILITY	670 WATERGATE WAY	NAPLES	OPEN	Fuel user/Non-retail	9/9/1998	10	ENTD	Y		Y	Y	DPHO
GERMAIN TOYOTA BMW	3835 DAVIS BLVD	NAPLES	CLOSED	Fuel user/Non-retail	6/3/1993	9	DNR	Y	N	N	N	DPHO
QUAIL RUN GOLF CLUB - MAINTENANCE FAC	1 FOREST LAKES BLVD	NAPLES	CLOSED	Contamination Site	2/12/1991	0	NFA	Y	N	Y	N	DPHO

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_ W ATER	MNTR_ W ELL_	METHOD
WINKLER BUILDING	4628 E TAMIAMI TR	NAPLES	CLOSED	Fuel user/Non-retail	12/18/1991	6	ENTD	Y	N	N	N	DPHO
SHELL-PINE RIDGE-DUDLEY	6615 DUDLEY DRIVE	NAPLES	OPEN	Retail Station	10/26/1988	31	RA	Y	N	Y	Y	DPHO
CHEVRON-COURTESY	1863 9TH ST N	NAPLES	OPEN	Retail Station	7/29/1986	62	SRCR	Y	N	Y	Y	DPHO
J&T TRAVEL MART USE 118943963	ALLIGATOR ALLEY & SR 951	NAPLES	CLOSED	Retail Station	9/3/1987	10	ENTD	N	N	N	Y	DPHO
7-ELEVEN FOOD STORE #30012	4831 TAMIAMI TRL E	NAPLES	OPEN	Retail Station	4/1/1986	9	RAP	Y	N	Y	N	DPHO
SUNOCO #0612-3178	4716 TAMIAMI TRL E	NAPLES	OPEN	Retail Station	7/21/1994	6	SA					DPHO
PINEAIRE LAKES	EDGEWOOD DR N	NAPLES	CLOSED	Fuel user/Non-retail	2/5/1993	30	NFA	Y	N	N	N	DPHO
COLLIER CNTY-ROAD & BRIDGE DEPT	2901 CNTY BARN RD	NAPLES	OPEN	County Government	9/2/2003	0	SA	Y	N	N	N	DPHO
SITE FOOD MART #105	4612 9TH ST N	NAPLES	OPEN	Retail Station	1/2/1991	0	RA	Y	N	Y	Y	DPHO
FL ROCK INDUSTRIES INC	6200 SHIRLEY ST	NAPLES	CLOSED	Fuel user/Non-retail	4/18/1994	25	ENTD	Y	N	N	N	DPHO
NAPLES RENT ALL & SALES CO INC	2600 DAVIS BLVD	NAPLES	OPEN	Fuel user/Non-retail	4/19/1994	10	PNTD	Y	N	N	N	DPHO
COLLIER CNTY-OLD FUEL ISLAND	3301 TAMIAMI TR	NAPLES	CLOSED	County Government	11/14/1991	10	SA	Y	N	Y	N	DPHO
UNION MOTOR AUTO CENTER	1705 TAMIAMI TRL E	NAPLES	CLOSED	Fuel user/Non-retail	3/11/1991	10	INEL	Y	N	N	N	DPHO
EVANS OIL CO	3170 HORSESHOE DR S	NAPLES	OPEN	Bulk Storage Facility	7/9/1988	32	RAP	Y	N	Y	Y	DPHO
WASTE MGMT OF COLLIER CNTY	5515 YAHL ST	NAPLES	CLOSED	Fuel user/Non-retail	12/19/1989	96	NFA	Y	N	Y	Y	DPHO
MOBIL #02-A20	2898 E TAMIAMI TRL	NAPLES	OPEN	Retail Station	11/9/1990	0	DNR					AGPS
INDIES WEST CONDOS	2200 GULF SHORE BLVD N	NAPLES	CLOSED	Fuel user/Non-retail	9/18/1995	9	ENTD	Y	N	N	N	DPHO
WYNDEMERE COUNTRY CLUB	700 WYNDEMERE WAY	NAPLES	OPEN	Fuel user/Non-retail	5/30/1992	10	NFA	N	N	Y	Y	DPHO
NAPLES TIRE & SERVICE CENTER	130 9TH ST N	NAPLES	CLOSED	Fuel user/Non-retail	3/21/1991	9	NFA	Y	N	N	N	DPHO
PARKSHORE MARINA	4310 GULF SHORE BLVD N	NAPLES	OPEN	Marine/Coastal Fueling Location	4/4/1991	0	NREQ	Y	N	N	N	AGPS
AMOCO FOOD MART	8901 DAVIS BLVD EXT E	NAPLES	OPEN	Retail Station	11/30/1988	30	NFA	N	N	N	Y	DPHO
MANLEY FARMS	NE CRNR AIRPORT & GOLDEN GATE PKWY	NAPLES	OPEN	Agricultural	11/4/1988	30	NFA	Y	N	Y	Y	DPHO
BOAT HAVEN NAPLES INC	1484 5TH AVE S	NAPLES	CLOSED	Marine/Coastal Fueling Location	9/3/1986	10	NFAC	Y	N	Y	Y	AGPS

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONT_	SURF_ WATER	GRND_ W_ ATER	MNTR_ W_ ELL_	METHOD
AMOCO #186	1696 E TAMIAMI TRAIL	NAPLES	CLOSED	Retail Station	11/25/1986	9	RAP	Y	N	Y	Y	DPHO
7-ELEVEN FOOD STORE #17114	1871 PINE RIDGE RD	NAPLES	OPEN	Retail Station	8/14/1987	100	SRCR	N	N	N	Y	DPHO
SHELL	1033 AIRPORT PULLING RD S	NAPLES	OPEN	Retail Station	6/21/1994	10	DNR					AGPS
JAY'S PURE	3295 DAVIS BLVD	NAPLES	CLOSED	Retail Station	12/23/1998	10	ENTD	Y				DPHO
ACE FOOD MART	4920 GOLDEN GATE PKY	NAPLES	CLOSED	Retail Station	8/15/1989	60	RA	Y	N	Y	Y	DPHO
MITCHELL & STARK CONSTRUCTION CO INC	6001 SHIRLEY ST	NAPLES	OPEN	Fuel user/Non-retail	3/20/1996	0	NFA	Y	N	N	N	AGPS
LAUSAUNE CONDOMINIUM	3215 GULF SHORE BLVD N	NAPLES	CLOSED	Fuel user/Non-retail	10/25/1995	29	ENTD	Y	N	N	N	DPHO
KWIK PIK	499 GOODLETTE RD	NAPLES	OPEN	Retail Station	12/30/1992	30	SA	N	N	Y	Y	AGPS
MOBIL #02-A21	3391 9TH ST N	NAPLES	OPEN	Retail Station	10/11/1984	11	RAP	Y	N	N	N	DPHO
BP-NAPLES PARK	10121 TAMIAMI TRL N	NAPLES	OPEN	Retail Station	7/20/1987	10	SA	Y	N	Y	Y	DPHO
MANGOS	2891 BAYVIEW DR	NAPLES	OPEN	Marine/Coastal Fueling Location	10/13/2000	0	NREQ	Y	N	N	N	DPHO
NAPLES CITY-EQUIPMENT SERVICES DIVISION	375 RIVERSIDE CIRCLE	NAPLES	OPEN	Local Government	10/18/1995	30	NFA					DPHO
HESS #09465	2375 HWY 951	NAPLES	OPEN	Retail Station	11/3/1994	92	RA					DPHO
COVE MARINA	860 12TH AVE S	NAPLES	CLOSED	Marine/Coastal Fueling Location	9/7/1988	10	NREQ					DPHO
SUPER STOP FOOD STORE	3506 BAYSHORE DR	NAPLES	OPEN	Retail Station	3/17/2004	6	SA	Y	N	N	N	DPHO
BAY TERRACE	1325 7TH ST S	NAPLES	OPEN	Residential	9/21/1992	9	DNR	N	Y	N	Y	DPHO
COLLIER CNTY-PINE RIDGE MS	1515 PINE RIDGE RD	NAPLES	CLOSED	Local Government	12/20/1990	75	SRCR	N	N	N	Y	DPHO
UNITED PARCEL SERVICE	3950 MERCANTILE AVE	NAPLES	CLOSED	Fuel user/Non-retail	12/7/1990	26	SA	Y	N	Y	N	DPHO
TEXACO-VOIGTS	2891 E TAMIAMI TRL	NAPLES	CLOSED	Retail Station	9/12/1990	0	NFA	Y	N	Y	Y	DPHO
FORMER 7-ELEVEN FOOD STORE #24630	4040 BAYSHORE DR	NAPLES	CLOSED	Retail Station	3/30/1987	10	RA	N	N	N	Y	DPHO
WASTE MGMT OF COLLIER CNTY	5515 YAHL ST	NAPLES	CLOSED	Fuel user/Non-retail	9/9/1992	96	NFA					DPHO
ALL FLOWERS	2608 TAMIAMI TRL E	NAPLES	CLOSED	Retail Station	10/20/1987	36	NFA	N	N	N	Y	DPHO
SUNSHINE #30011	3300 TAMIAMI TRL N	NAPLES	OPEN	Retail Station	5/11/1984	60	RA	N	N	N	Y	DPHO
MOBIL R/S # 11244	31 9TH ST N	NAPLES	OPEN	Retail Station	12/6/1988	32	RA	Y	N	Y	Y	DPHO
EXXON-SHADOW COURT	3360 S TAMIAMI TR	NAPLES	OPEN	Retail Station	4/23/2001	6	SA				Y	AGPS
HESS #09464	6300 DAVIS BLVD	NAPLES	OPEN	Retail Station	7/27/1998	10	ENTD	Y	N	Y	Y	DPHO

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_ W ATER	MNTR_ W ELL_	METHOD
HESS #09363	4171 TAMIAMI TRAIL E	NAPLES	OPEN	Retail Station	11/11/1998	10	ENTD	Y				DPHO
WAYNES WORLD BP INC	2201 TAMIAMI TRL N	NAPLES	OPEN	Retail Station	11/21/1994	31	NREQ					AGPS
SUNSHINE #30011	3300 TAMIAMI TRL N	NAPLES	OPEN	Retail Station	8/13/1986	60	RA					DPHO
CIRCLE K #4755	8600 RADIO RD	NAPLES	OPEN	Retail Station	2/6/2004	0	VCCR	Y	N	N	N	DPHO
CHEVRON #47727	2795 TAMIAMI TRL N	NAPLES	CLOSED	Retail Station	2/17/1993	33	SRCR					DPHO
MANGOS	2891 BAYVIEW DR	NAPLES	OPEN	Marine/Coastal Fueling Location	9/25/2003	6	RA	Y	N	Y	Y	DPHO
HEALTH CARE FOR BETTER LIVING-FRMR COASTAL BEV LTD	1414 ROSEMARY LN	NAPLES	CLOSED	Fuel user/Non-retail	12/29/1994	74	SRCR	Y	N	N	N	DPHO
BAY MARINA INC	854 RIVER POINT DR	NAPLES	CLOSED	Marine/Coastal Fueling Location	4/29/1998	10	NFA				Y	DPHO
COLLIER CNTY-MOSQUITO CONTROL DIST	240 AVIATION DRIVE	NAPLES	CLOSED	County Government	2/28/1990	9	SRCR	Y	N	Y	Y	DPHO
7-ELEVEN FOOD STORE #24289	1183 AIRPORT RD S	NAPLES	OPEN	Retail Station	8/14/1987	40	NFA	N	N	N	Y	DPHO
7-ELEVEN FOOD STORE #20991	1480 AIRPORT RD	NAPLES	OPEN	Retail Station	8/1/1985	10	RA	Y	N	Y	Y	DPHO
HESS #09466	5100 GOLDEN GATE PKY	NAPLES	OPEN	Retail Station	11/11/1998	65	NFA	Y				DPHO
NAPLES CITY-PUBLIC SAFETY BUILDING	355 GOODLETTE RD N	NAPLES	CLOSED	Local Government	5/29/1997	29	DNR	Y	N	N	N	DPHO
NORTH NAPLES CITY-FIRE CTRL	1441 PINE RIDGE RD	NAPLES	OPEN	Local Government	3/20/1996	71	SA	Y	N	N	Y	DPHO
MOBIL #02-A0F	4577 EXECUTIVE DR	NAPLES	OPEN	Retail Station	3/8/1993	35	SA	N	N	N	Y	DPHO
NAPLES BAY CO LTD	1067 10TH AVE S	NAPLES	CLOSED	Fuel user/Non-retail	2/26/1991	12	NFA	Y	N	Y	Y	DPHO
HESS #09204	697 9TH ST N	NAPLES	OPEN	Retail Station	3/14/1991	0	NFA	N	N	N	Y	DPHO
TEXACO #021-1326	694 9TH ST N	NAPLES	CLOSED	Retail Station	7/11/1985	0	SRCR	Y	N	Y	Y	DPHO
COMBS OIL CO NAPLES BULK FACILITY	1500 AIRPORT RD S	NAPLES	OPEN	Bulk Storage Facility	9/9/1986	13	RA	Y	N	Y	Y	DPHO
CIRCLE K #4755	8600 RADIO RD	NAPLES	OPEN	Retail Station	5/2/1990	10	NFA	N	N	N	Y	DPHO
MOBIL #02-633	3777 TAMIAMI TRL E	NAPLES	CLOSED	Retail Station	7/7/1987	6	RAP	N	N	N	Y	DPHO
DUMP TRUCKS COLLISION 02-31-0156	IMMOKOLEE RD	NAPLES	CLOSED	Emergency Response Spill Site	9/24/2002	29	SRCR	Y	N			DPHO
TAMIAMI FORD	1471 N AIRPORT RD	NAPLES	CLOSED	Fuel user/Non-retail	5/7/2004	25	SA	Y	N	N	N	DPHO
SITE FOOD MART #105	4612 9TH ST N	NAPLES	OPEN	Retail Station	12/9/1992	0	RA					DPHO
MONACO BEACH CLUB	4401 GULF SHORE	NAPLES	CLOSED	Fuel user/Non-	7/31/1996	25	ENTD	N	N	Y	N	DPHO

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_W ATER	MNTR_W ELL_	METHOD
CONDOMINIUM	BLVD N			retail								
HALDERMAN CREEK FISH HOUSE	2815 BAYVIEW DR	NAPLES	CLOSED	Fuel user/Non-retail	2/10/1994	0	NREQ	Y	N	N	N	DPHO
MOBIL #02-A19	40 9TH ST N	NAPLES	CLOSED	Retail Station	4/10/1987	10	NFA	Y	N	Y	Y	DPHO
7-ELEVEN FOOD STORE #24259	10795 TAMIAMI TRLN	NAPLES	OPEN	Retail Station	3/30/1987	10	SA	N	N	N	Y	AGPS
CITGO-FAITH FUEL CORP	2068 DAVIS BLVD	NAPLES	OPEN	Retail Station	5/11/1988	10	NFA	N	N	N	Y	DPHO
FASHION FRESH DRY CLEANERS	3880 AIRPORT RD	NAPLES	CLOSED	Retail Station	1/20/1987	51	SRCR	N	N	N	Y	DPHO
SUMMERTON PROPERTY	116 HERON AVE	NAPLES	CLOSED	Residential	8/15/2004	0	NFA	Y	Y	N	N	DPHO
SHELL-PINE RIDGE-DUDLEY	6615 DUDLEY DRIVE	NAPLES	OPEN	Retail Station	12/20/1990	0	RA					DPHO
SHELL	1033 AIRPORT PULLING RD S	NAPLES	OPEN	Retail Station	8/24/1995	10	PNTD					AGPS
HESS #09461	2055 PINE RIDGE RD	NAPLES	OPEN	Retail Station	3/25/1992	100	RA					DPHO
ELLIS PROPERTY	1ST AVE S	NAPLES	CLOSED	Retail Station	5/25/1994	5	RA					DPHO
TRI-W RENTAL INC	5550 TAYLOR RD	NAPLES	CLOSED	Contamination Site	1/7/1988	100	NFA	N	N	N	Y	DPHO
THOMASSON DRIVE FARM	4693 THOMASSON DRIVE	NAPLES	CLOSED	Contamination Site	3/1/2004	5	SRCR	Y	N	Y	N	DPHO
HESS #09463	1600 AIRPORT RD S	NAPLES	OPEN	Retail Station	12/21/1988	40	NFA	N	N	N	Y	DPHO
NAPLES CITY-MUNICIPAL AIRPORT	AVIATION DR SERVICE AREA	NAPLES	OPEN	Local Government	10/24/1985	10	SRCR	Y	N	N	Y	DPHO
NAPLES CITY-SW PUMP STATION #94	325 GOODLETTE RD	NAPLES	OPEN	Local Government	6/21/1996	29	DNR	N	N	N	Y	DPHO
SITE FOOD MART #105	4612 9TH ST N	NAPLES	OPEN	Retail Station	6/28/1997	0	RA					DPHO
SPRINT FLORIDA - NAPLES SE CENTRAL OFF	3615 THOMASSON AVE	NAPLES	OPEN	Fuel user/Non-retail	2/27/2003	9	NFA	N	N	Y	Y	AGPS
GULF GATE PLAZA	2560-2896 E TAMIAMI TRL	NAPLES	CLOSED	Fuel user/Non-retail	1/30/2001	9	NFA	Y	N	N	N	MMAP
PRATHERS INC	1095 5TH AVE S	NAPLES	CLOSED	Fuel user/Non-retail	11/10/1992	6	PNTD	Y	N	Y	Y	DPHO
AMOCO STATION (FORMER)	180 9TH ST S	NAPLES	CLOSED	Retail Station	4/1/1984	75	NFA	Y	N	N	N	DPHO
EXXON-SHADOW COURT	3360 S TAMIAMI TR	NAPLES	OPEN	Retail Station	11/30/1988	40	NFA	N	N	N	Y	AGPS
COLLIER CNTY FLEET MGMT SHOP	4800 DAVIS BLVD	NAPLES	OPEN	County Government	5/17/2002	9	RA	Y	N	Y	Y	DPHO
HESS #09363	4171 TAMIAMI TRAIL E	NAPLES	OPEN	Retail Station	3/3/1992	0	NREQ					DPHO
SITE FOOD MART #105	4612 9TH ST N	NAPLES	OPEN	Retail Station	1/28/1991	75	RA					DPHO
SOUTHWEST BOTTLERS	1171 INDUSTRIAL	NAPLES	CLOSED	Fuel user/Non-	3/4/1992	9	NFA	Y	N	Y	Y	DPHO

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_ W_ ATER	MNTR_ W_ ELL_	METHOD
OF FL	BLVD			retail								
BAYSHORES OF VANDERBILT BEACH & CONDO	10475 GULFSHORE DR N	NORTH NAPLES	CLOSED	Fuel user/Non-retail	1/20/1994	9	SRCR	Y	N	N	N	UNVR
SHELL	1033 AIRPORT PULLING RD S	NAPLES	OPEN	Retail Station	1/8/1991	10	NREQ					AGPS
CIRCLE K #7386	4700 SR 951	NAPLES	OPEN	Retail Station	6/26/2003	46	SA	Y	N	N	N	DPHO
APAC FL INC-FUELING STATION	911 SW 5TH ST	NAPLES	OPEN	Fuel user/Non-retail	12/20/1988	84	SRCR	Y	N	N	N	DPHO
CIRCLE K #7386	4700 SR 951	NAPLES	OPEN	Retail Station	11/23/1988	30	NFA	N	N	N	Y	DPHO
MOBIL #02-A20	2898 E TAMIAMI TRL	NAPLES	OPEN	Retail Station	12/9/1988	10	RAP	Y	N	Y	Y	AGPS
7-ELEVEN FOOD STORE #24259	10795 TAMIAMI TRL N	NAPLES	OPEN	Retail Station	10/13/2003	0	NREQ	Y	N	Y	Y	AGPS
EVANS OIL CO	3170 HORSESHOE DR S	NAPLES	OPEN	Bulk Storage Facility	7/6/1993	12	NREQ					DPHO
FORMER CIRCLE K #7319	9601 N TAMIAMI TRL	NAPLES	CLOSED	Retail Station	8/29/1992	10	NFA					DPHO
NAPLES POWERBOAT MARINA	701 11TH ST S	NAPLES	CLOSED	Marine/Coastal Fueling Location	1/27/1997	11	PNTD	Y	N	N	N	DPHO
FIBBER MCGEES CLOSET	571 AIRPORT RD S	NAPLES	CLOSED	Fuel user/Non-retail	2/16/1994	30	NFA	Y	N	N	N	DPHO
HESS #09461	2055 PINE RIDGE RD	NAPLES	OPEN	Retail Station	12/21/1988	100	RA	Y	N	Y	Y	DPHO
NAPLES YACHT CLUB INC	700 14TH AVE S	NAPLES	OPEN	Marine/Coastal Fueling Location	8/1/1989	13	RAP	Y	N	Y	Y	DPHO
DON OLSON FIRESTONE	4900 TAMIAMI TRL N	NAPLES	CLOSED	Fuel user/Non-retail	12/22/1988	9	NFA	Y	N	N	N	DPHO
SHELTON JAGUAR	836 9TH ST N	NAPLES	CLOSED	Retail Station	9/25/1987	26	RAP	Y	N	Y	Y	DPHO
PITTMAN FUNERAL HOME	850 6TH AVE N	NAPLES	CLOSED	Fuel user/Non-retail	4/2/1998	0	SRCR	Y		Y		DPHO
MANGOS	2891 BAYVIEW DR	NAPLES	OPEN	Marine/Coastal Fueling Location	11/24/1992	0	NREQ	Y	N	N	N	DPHO
BURCO INDUSTRIES INC	3606 MERCANTILE AVE	NAPLES	CLOSED	Fuel user/Non-retail	1/5/1990	30	ENTD	Y	N	Y	Y	DPHO
GROSVENOR CONDOMINIUM	6001 PELICAN BAY BLVD	NAPLES	OPEN	Residential	12/1/1993	0	NREQ	Y	N	Y	N	DPHO
7-ELEVEN FOOD STORE #25386	5320 TAMIAMI TRAIL N	NAPLES	OPEN	Retail Station	9/5/1996	61	NREQ					DPHO
KMART #3144	4383 TAMIAMI TRL N	NAPLES	OPEN	Fuel user/Non-retail	12/5/1988	9	NFA	Y	N	N	N	DPHO
SEVILLE AT VANDERBILT SHORES	10691 GULF SHORE DR N	NAPLES	CLOSED	Fuel user/Non-retail	7/5/1996	9	ENTD	Y	N	N	N	DPHO
COLLIER CNTY	SHADOWLAWN DR	NAPLES	CLOSED	Local	12/21/1989	6	RAP	Y	N	Y	Y	UNVR

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_ W ATER	MNTR_ W ELL_	METHOD
SCHOOL BD-MAINT DEPT				Government								
CHEVRON #47727	2795 TAMIAMI TRL N	NAPLES	CLOSED	Retail Station	1/27/1988	33	SRCR	Y	N	Y	Y	DPHO
CIRCLE K #7331	5000 RADIO RD	NAPLES	OPEN	Retail Station	11/23/1988	10	NFA	N	N	Y	Y	DPHO
BP-CENTERLINE	489 9TH ST S	NAPLES	CLOSED	Retail Station	12/15/1988	13	SRCR	Y	N	Y	Y	DPHO
COLLIER CNTY- MOSQUITO CONTROL DIST	771 AIRPORT RD S	NAPLES	CLOSED	Fuel user/Non-retail	10/9/1985	10	SRCR	Y	N	Y	Y	DPHO
ERBE PROPERTY	2262 CORPORATION BLVD	NAPLES	CLOSED	Retail Station	5/5/1995	0	NREQ	Y	N	N	N	DPHO
SUNOCO #0612-3178	4716 TAMIAMI TRL E	NAPLES	OPEN	Retail Station	5/5/1993	6	SA	Y	N	Y	Y	DPHO
BROOKSIDE MARINA	2023 DAVIS BLVD	NAPLES	OPEN	Marine/Coastal Fueling Location	1/22/1991	10	DNR	Y	N	N	N	DPHO
BENSON PULLING MORSE PROPERTY	1311 5TH AVE S	NAPLES	CLOSED	Fuel user/Non-retail	10/19/1988	10	SA	Y	N	Y	Y	UNVR
LA MER CONDOMINIUM	4051 GULF SHORE BLVD N	NAPLES	CLOSED	Fuel user/Non-retail	6/3/1994	29	REPT	Y	N	Y	N	DPHO
MOBIL #02-A21	3391 9TH ST N	NAPLES	OPEN	Retail Station	3/28/2005	0	NREQ					DPHO
COLLIER CNTY- GOVERNMENT COMPLEX	3301 TAMIAMI TRL E	NAPLES	CLOSED	Fuel user/Non-retail	9/28/1990	10	NFA	N	N	N	Y	DPHO
E'S COUNTRY STORES LLC	14344 IMMOKALEE RD	NAPLES	OPEN	Retail Station	1/8/1993	9	ENTD	N	N	Y	Y	DPHO
COLLIER CNTY-ROAD & BRIDGE DEPT	2901 CNTY BARN RD	NAPLES	OPEN	County Government	8/21/1990	0	SRCR	Y	N	Y	N	DPHO
HESS STATION #09462	2100 GOODLETTE RD N	NAPLES	OPEN	Retail Station	12/20/1988	71	RA	Y	N	Y	Y	DPHO
TEXACO #021-1326	694 9TH ST N	NAPLES	CLOSED	Retail Station	4/18/1986	0	SRCR					DPHO
BALLARD INC	3506 PROSPECT AVE	NAPLES	OPEN	Bulk Storage Facility	9/26/1995	9	NFA					DPHO
WESTGATE CONDOMINIUM ASSOC INC	2901 GULF SHORE BLVD N	NAPLES	CLOSED	Fuel user/Non-retail	6/10/1997	29	NREQ	Y	N	N	N	DPHO
NAPLES LUMBER & SUPPLY CO	3828 RADIO RD	NAPLES	OPEN	Fuel user/Non-retail	11/24/1987	6	ENTD	N	N	Y	Y	DPHO
7-ELEVEN FOOD STORE #25386	5320 TAMIAMI TRAIL N	NAPLES	OPEN	Retail Station	3/30/1987	61	SRCR	N	N	Y	Y	DPHO
NAPLES POWERBOAT MARINA	701 11TH ST S	NAPLES	CLOSED	Marine/Coastal Fueling Location	3/9/1998	11	ENTD	Y		Y		DPHO
NAPLES CITY-EQUIPMENT SERVICES DIVISION	375 RIVERSIDE CIRCLE	NAPLES	OPEN	Local Government	1/16/1991	0	NFA	Y	N	N	Y	DPHO
NAPLES BOAT CLUB	899 10TH ST S	NAPLES	OPEN	Marine/Coastal	2/8/1993	11	NFA	Y	N	Y	Y	DPHO

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_ W ATER	MNTR_ W ELL_	METHOD
LLC				Fueling Location								
FOX FIRE COUNTRY CLUB	4800 RADIO RD	NAPLES	CLOSED	Fuel user/Non-retail	12/3/1992	10	NREQ	Y	N	N	N	DPHO
USE 8626229	375 13TH ST N	NAPLES	CLOSED	Local Government	10/12/1995	30	DNR	Y	N	Y	N	DPHO
NAPLES STEEL PRODUCTS INC	2500 TAMIAMI TRL E	NAPLES	CLOSED	Industrial Plant	12/21/1989	11	NFA	Y	N	Y	Y	DPHO
KEEWAYDIN DOCK	260 BAY RD	NAPLES	CLOSED	Marine/Coastal Fueling Location	1/15/1991	9	RA	Y	N	Y	N	DPHO
ULTRA RITE CAR WASH	4920 N TRAIL	NAPLES	CLOSED	Retail Station	5/1/1990	10	NREQ	Y	N	N	N	DPHO
DON OLSON TIRE & AUTO	3612 TAMIAMI TRL E	NAPLES	CLOSED	Fuel user/Non-retail	12/22/1988	9	ENTD	Y	N	N	N	DPHO
HENRY JOHNSON TIRE INC	100 GOODLETTE RD N	NAPLES	CLOSED	Fuel user/Non-retail	5/19/1994	0	NFA	Y	N	N	N	UNVR
EVANS OIL CO	1190 1ST AVE S	NAPLES	CLOSED	Marine/Coastal Fueling Location	12/31/1987	56	SA	Y	N	Y	Y	UNVR
MOBIL #02-A20	2898 E TAMIAMI TRL	NAPLES	OPEN	Retail Station	11/20/1991	0	NREQ					AGPS
BAY MARINA INC	854 RIVER POINT DR	NAPLES	CLOSED	Marine/Coastal Fueling Location	12/10/1991	0	NFA	Y	N	N	N	DPHO
MOBIL #02-A5T	2495 PINE RIDGE RD	NAPLES	OPEN	Retail Station	12/12/1988	11	SRCR	N	N	N	Y	DPHO
FORMER CIRCLE K #1695	2055 HWY 951	NAPLES	CLOSED	Retail Station	3/15/1990	32	NFA	Y	N	Y	Y	DPHO
CHEVRON #47723-RICHARDS	109 9TH ST S	NAPLES	CLOSED	Retail Station	6/6/1988	75	RA	Y	N	Y	Y	DPHO
MOBIL #02-A19	40 9TH ST N	NAPLES	CLOSED	Retail Station	6/28/1993	10	NFA					DPHO
7-ELEVEN FOOD STORE #30012	4831 TAMIAMI TRL E	NAPLES	OPEN	Retail Station	2/25/1993	9	SA					DPHO
BP-MOORINGS	2911 9TH ST N	NAPLES	CLOSED	Retail Station	9/27/1993	6	RAP	N	N	N	Y	DPHO
GULF COAST FARMS-THE VINEYARDS	7800 N AIRPORT RD	NAPLES	CLOSED	Fuel user/Non-retail	12/29/1989	10	NFA	Y	N	Y	Y	DPHO
JUNGLE LARRY'S AFRICAN SAFARI PARK	1590 GOODLETTE RD N	NAPLES	OPEN	Fuel user/Non-retail	4/16/1992	60	SRCR	Y	N	N	N	DPHO
BP-NAPLES PARK	10121 TAMIAMI TRL N	NAPLES	OPEN	Retail Station	2/12/1992	10	ENTD					DPHO
US POSTAL SERVICE	1200 GOODLETTE RD	NAPLES	CLOSED	Federal Government	2/3/1992	30	SA	N	N	Y	N	DPHO
WAYNES WORLD BP INC	2201 TAMIAMI TRL N	NAPLES	OPEN	Retail Station	8/5/1988	26	RAP	Y	N	Y	Y	AGPS
NAPLES CAR WASH	2595 TAMIAMI TRAIL	NAPLES	CLOSED	Fuel user/Non-retail	12/4/1986	10	SA	N	N	Y	Y	DPHO
EXXON-KRANTZ	3300 DAVIS BLVD	NAPLES	OPEN	Retail Station	12/10/1988	41	NFA	N	N	Y	Y	DPHO

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_ W ATER	MNTR_ W ELL_	METHOD
COLLIER CNTY- MOSQUITO CONTROL DIST	771 AIRPORT RD S	NAPLES	CLOSED	Fuel user/Non-retail	10/10/1985	10	NREQ					DPHO
CLUB AT PELICAN BAY- MAINT FACILITY	670 WATERGATE WAY	NAPLES	OPEN	Fuel user/Non-retail	10/22/1993	0	NREQ	N	N	N	Y	DPHO
BALLARD INC	3506 PROSPECT AVE	NAPLES	OPEN	Bulk Storage Facility	1/3/1991	0	NFA	Y	N	N	N	DPHO
DUMP TRUCKS COLLISION 02-3I-0156	IMMOKOLEE RD-882 FT E OF WILSON BLVD	NAPLES	CLOSED	Emergency Response Spill Site	9/24/2002	29	SRCR	Y	N			DPHO
FRANKS SERVICE STATION	1190 9TH ST N	NAPLES	OPEN	Retail Station	4/15/1992	26	RA	N	N	N	Y	DPHO
ECOL #819	3280 TAMIAMI TRAIL	NAPLES	CLOSED	Retail Station	3/17/1987	10	RAP	N	N	N	Y	DPHO
COURTHOUSE SHADOWS CONSOLIDATED SITE	3375 TAMIAMI TRL E	NAPLES	CLOSED	Fuel user/Non-retail	12/4/1997	6	ENTD				Y	DPHO
HIGHWAY PAVERS	5590 SHIRLEY ST	NAPLES	CLOSED	Fuel user/Non-retail	4/24/1992	30	NFA	N	N	Y	N	DPHO
COMMUNITY CITGO	1999 COLLIER BLVD (HWY 951)	NAPLES	OPEN	Retail Station	7/6/1988	65	SRCR	Y	N	N	Y	DPHO
RITZ CARLTON	280 VANDERBILT BCH RD	NAPLES	OPEN	Fuel user/Non-retail	10/31/1994	10	NFA	N	N	N	Y	DPHO
HESS #09463	1600 AIRPORT RD S	NAPLES	OPEN	Retail Station	11/16/2004	0	NREQ	Y	N	N	N	DPHO
SHELL OIL	3695 TAMIAMI TRAIL	NAPLES	CLOSED	Retail Station	5/3/1991	0	RAP	Y	N	Y	Y	DPHO
MOBIL #02-J66	3701 SANTA BARBARA BLVD	NAPLES	OPEN	Retail Station	5/7/1996	6	ENTD					DPHO
E'S COUNTRY STORES LLC	21 GOLDEN GATE BLVD	NAPLES	OPEN	Retail Station	7/21/1990	91	ENTD					DPHO
BEACHMOOR CONDOMINIUM	9051 GULF SHORE DR N	NAPLES	CLOSED	Fuel user/Non-retail	7/25/1995	9	ENTD	Y	N	N	N	DPHO
EXXON #4651	575 9TH ST N	NAPLES	CLOSED	Retail Station	2/8/1991	10	NFA	Y	N	N	Y	UNVR
HESS #09465	2375 HWY 951	NAPLES	OPEN	Retail Station	11/12/1988	92	RA	Y	N	Y	Y	DPHO
SHELL	1033 AIRPORT PULLING RD S	NAPLES	OPEN	Retail Station	11/22/1988	10	RAP	N	N	N	Y	AGPS
HESS #09629	1410 N AIRPORT RD	NAPLES	OPEN	Retail Station	11/7/1990	0	SRCR	N	N	N	Y	AGPS
COUNTRY CLUB OF NAPLES INC	185 BURNING TREE DR	NAPLES	OPEN	Fuel user/Non-retail	10/3/1988	76	SRCR	Y	N	Y	Y	DPHO
SOUTHWEST BOTTLERS OF FL	1171 INDUSTRIAL BLVD	NAPLES	CLOSED	Fuel user/Non-retail	8/5/1992	9	NFA					DPHO
AMOCO STATION (FORMER)	180 9TH ST S	NAPLES	CLOSED	Retail Station	5/16/1994	75	NREQ					DPHO
SUNOCO #0612-3178	4716 TAMIAMI TRL E	NAPLES	OPEN	Retail Station	4/25/1994	6	SA					DPHO
DORCHESTER CONDOMINIUM	6075 PELICAN BAY BLVD	NAPLES	CLOSED	Fuel user/Non-retail	12/1/1993	0	NREQ	Y	N	N	N	DPHO
COLLIER CNTY-	5702 COUGAR LN	NAPLES	OPEN	County	1/25/1994	30	ENTD	N	N	N	Y	DPHO

NAME	ADDRESS	CITY	STATUS	SITE_TYPE	DISCHARGE_	SCORE	DISCHARGE1	SOIL_ CONTA	SURF_ WATER	GRND_ W_ ATER	MNTR_ W_ ELL_	METHOD
TRANSPORTATION MAINT				Government								
BP PAVILION	8901 TAMIAMI TRL N	NAPLES	OPEN	Retail Station	1/24/1992	10	SA	N	N	N	Y	AGPS
COUNTRYSIDE COUNTRY CLUB- MAINTENANCE	4201 SANTA BARBARA BLVD	NAPLES	OPEN	Fuel user/Non-retail	2/8/1993	11	ENTD	Y	N	Y	Y	UNVR
HESS #09464	6300 DAVIS BLVD	NAPLES	OPEN	Retail Station	8/6/1986	10	RA	N	N	N	Y	DPHO
TEXACO-VOIGTS	2891 E TAMIAMI TRL	NAPLES	CLOSED	Retail Station	10/15/1992	30	RA					DPHO
TEXACO-VOIGTS	2891 E TAMIAMI TRL	NAPLES	CLOSED	Retail Station	5/3/2000	30	SA	Y	N	Y	Y	DPHO
DIVISION OF FORESTRY-NAPLES W C	68 INDUSTRIAL BLVD	NAPLES	CLOSED	Fuel user/Non-retail	9/27/1990	10	SRCR	Y	N	Y	Y	UNVR
MOBIL #02-J66	3701 SANTA BARBARA BLVD	NAPLES	OPEN	Retail Station	6/27/1991	6	ENTD	N	N	N	Y	DPHO
VANDERBILT BAY I & II	10420 GULF SHORE DR	NAPLES	CLOSED	Fuel user/Non-retail	6/18/1996	10	ENTD	N	N	Y	Y	DPHO
NAPLES CITY DOCK	880 12TH AVE S	NAPLES	OPEN	Marine/Coastal Fueling Location	9/5/1990	6	RA	Y	N	Y	Y	DPHO
HUTCHISON TYRE & AUTOMOTIVE SERVICES	680 9TH ST N	NAPLES	CLOSED	Fuel user/Non-retail	4/29/1989	10	RA	N	N	N	Y	DPHO
KMART #7573	3701 TAMIAMI TRL E	NAPLES	OPEN	Fuel user/Non-retail	12/5/1988	9	ENTD	Y	N	N	N	DPHO
HESS #09466	5100 GOLDEN GATE PKY	NAPLES	OPEN	Retail Station	8/6/1986	65	SRCR	N	N	N	Y	DPHO

### Wastewater Facilities Within The Study Area.

From FDEP Statewide coverage of Wastewater Facility Regulation (WAFR) Facilities, August 2005. Information corresponds with locations in Figure 36. Some attributes have been removed from the table for display purposes.

PK_WAFR_FA	FACILITY_I	NAME	ADDRESS	CITY	FACILITY TYPE	STATUS	NPDES	DESIGN_CAP
14165	FLA014165	ORANGE TREE WWTP	3000 ORANGE GROVE TRAIL	NAPLES	DW	A	N	0.0000
17753	FLG110060	KREHLING PLANT 6 GOLDEN GATE	911 5TH STREET SW	NAPLES	CBP	A	Y	0.0000
17756	FLG110064	KREHLING PLANT 8 SHIRLEY ST	6100 SHIRLEY STREET	NAPLES	CBP	A	Y	0.0000
14151	FLA014151	NAPLES DRIVE IN THEATRE	7700 EAST DAVIS BLVD	NAPLES	DW	A	N	0.0050
14214	FLA142140	GOLDEN GATE WWTP	4931 - 32ND AVE. S. W.	GOLDEN GATE	DW	A	N	0.9500
14140	FLA014140	COLLIER NORTH REGIONAL WTP	8TH AVE NW-3000 FT E OF CR951	NAPLES	IW	A	N	6.2000
14131	FLA014131	BIG CYPRESS ELEMENTARY SCHOOL	3250 GOLDEN GATE BLVD	NAPLES	DW	A	N	0.0200
14145	FLA014145	TRADE CENTER OF NAPLES	1971 TRADE CENTER WAY	NAPLES	DW	A	N	0.0700
14235	FLA014235	APAC - FLORIDA INC GOLDEN GATE	911 5TH STREET S.W.	NAPLES	IW	A	N	0.0000
14143	FL0026271	NAPLES WWTP I, CITY OF	1400 3RD AVE N	NAPLES	DW	A	Y	10.0000
14133	FLA014133	PELICAN BAY	6200 WATERGATE WAY	NAPLES	DW	C	N	1.0000
29249	FLA292494	THE ENCLAVE AT NAPLES	1295 WILDWOOD LAKES BLVD	NAPLES	IW	N	N	0.0000
18973	FLA189731	GO TIME CHEVRON STATION	4025 PINE RIDGE RD	NAPLES	IW	A	N	0.0000
26780	FLA267805	COLLIER SOUTH REGIONAL WTP	3301 E TAMiami TR BLDG H	NAPLES	IW	A	N	0.0000

**NPDES Wastewater Facilities Within The Study Area.**

From FDEP Statewide coverage of Wastewater Facility Regulation (WAFR) Facilities, August 2005. Information corresponds with locations in Figure 36. Some attributes have been removed from the table for display purposes.

<b>PK_WAFR_FA</b>	<b>FACILITY_I</b>	<b>NAME</b>	<b>ADDRESS</b>	<b>CITY</b>	<b>FACILITY TYPE</b>	<b>STATUS</b>	<b>NPDES</b>	<b>DESIGN_CAP</b>
14151	FLA014151	NAPLES DRIVE IN THEATRE	7700 EAST DAVIS BLVD	NAPLES	DW	A	N	0.0050
14165	FLA014165	ORANGE TREE WWTP	3000 ORANGE GROVE TRAIL	NAPLES	DW	A	N	0.0000
17756	FLG110064	KREHLING PLANT 8 SHIRLEY ST	6100 SHIRLEY STREET	NAPLES	CBP	A	Y	0.0000
14133	FLA014133	PELICAN BAY	6200 WATERGATE WAY	NAPLES	DW	C	N	1.0000
14214	FLA142140	GOLDEN GATE WWTP	4931 - 32ND AVE. S. W.	GOLDEN GATE	DW	A	N	0.9500
14140	FLA014140	COLLIER NORTH REGIONAL WTP	8TH AVE NW-3000 FT E OF CR951	NAPLES	IW	A	N	6.2000
14143	FL0026271	NAPLES WWTP I, CITY OF	1400 3RD AVE N	NAPLES	DW	A	Y	10.0000
14131	FLA014131	BIG CYPRESS ELEMENTARY SCHOOL	3250 GOLDEN GATE BLVD	NAPLES	DW	A	N	0.0200
14145	FLA014145	TRADE CENTER OF NAPLES	1971 TRADE CENTER WAY	NAPLES	DW	A	N	0.0700
29249	FLA292494	THE ENCLAVE AT NAPLES	1295 WILDWOOD LAKES BLVD	NAPLES	IW	N	N	0.0000

**A6 COMPILATION, EVALUATION, AND ARCHIVING OF EXISTING WATER QUALITY DATA FOR SOUTHWEST FLORIDA**

Tetra Tech and Janicki, 2004

**Information From Report Appendix C: Sampling Within Study Area Or Near Shore**

<b>Report Page #</b>	<b>PDF page # of 867</b>	<b>Organization</b>	<b>Study ID</b>	<b>Data Available</b>	<b>Time of sampling</b>
C-10	30-33	City Naples	275	T, S, C, pH, alkalinity, turbidity, DO, nutrient loading (N, P, S). Metals, Pesticides. NPDES mandated chemical parameters, total fecal coliforms. fixed sites, point measurements. Surface water only	Oct 99 to present
C-13	40-43	Collier Co Pollution Battelle estuary pilot study	2381	As, NO3 , BOD, NO2 + NO3 , Cd, NO2, chlorophyll a, ON, Cr , ph, Cu, pheophytin-a, depth, TP, DO, elevation - water surface, orthophosphate as PO4, fecal coliform, flow cfs, salinity, Fe, secchi disk depth, Pb, Si , Hg, specific conductivity, N <sup>-</sup> , streptococcus, NH3, temperature water, TOC, NH4, IN, TSS, TKN, turbidity, Zn	4/89 - 8/96
C-14	44-47	Collier Co Pollution Battelle estuary monitoring	2382	As, NO3 , BOD, NO2 + NO3 , Cd, NO2, chlorophyll a, ON, Cr , ph, Cu, pheophytin-a, depth, TP, DO, elevation - water surface, orthophosphate as PO4, fecal coliform, flow cfs, salinity, Fe, secchi disk depth, Pb, Si , Hg, specific conductivity, N <sup>-</sup> , streptococcus, NH3, temperature water, TOC, NH4, IN, TSS, TKN, turbidity, Zn	4/89-9/98
C-15	48-52	Collier Co Pollution Battelle Gordon R monitoring	2385	Alkalinity carbonate, IN, As, TKN, NO3, BOD, NO2 + NO3 , Cd, NO2, Ca, ON, Cl, ph, chlorophyll a corrected for pheophytin, pheophytin, Cr, TP, Cu, orthophosphate as PO4, DO, K. Elevation water surface, salinity, fecal coliform, secchi disk depth, Si, flow cfs, Na, Fl, specific conductivity, streptococcus, hardness carbonate, SO4, Fe, temperature water, Pb, total coliform, TOC, N <sup>-</sup> , TSS, ammonia, true color, NH4, turbidity, Zn	12/89-6/98
C-39	100-104	Collier Co estuary seds and water	1295	Sediment study In conjunction with TT# 2382; acenaphthylene, acethene, alpha-bhc, aldrin, anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, pcb (1242, 1248 1254, 1260, ), %Al, %Fe, %OC sed, %ON, phenanthrene, ppdd (d- 4,4'-ddd, e - 4,4'-dde, t - 4,4'-ddt), chlordan, chrysene, pyrene, OC/ON sed ratio, Ag, delta-bhc, Al, As, Cr, Cu, Cd, Fe, Hg, dibenzo(a,h)anthracene, dieldrin, endrin aldehyde, endosulfan I and ii, endrin, endosulfan, SO4, H2S, fanthene, fluoranthene, fluorene, gamma-bhc, heptachlor, heptachlor epoxide, indeno(1,2,3-cd)pyrene, 1-methyl naphthalene, methyl-	1/90-12/97

Report Page #	PDF page # of 867	Organization	Study ID	Data Available	Time of sampling
				mercury, 2-methyl naphthalene, methoxychlor, ON, TOC, naphthalene, organotins,	
C-40	105-109	Collier Co inland seds and surface water	276	acenaphthylene, acethene, alpha-bhc, aldrin, anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, pcb (1242, 1248 1254, 1260, ), %Al, %Fe, %OC sed, %ON, phenanthrene, ppdd (d- 4,4'-ddd, e - 4,4'-dde, t - 4,4'-ddt), chlordane, chrysene, pyrene, OC/ON sed ratio, Ag, delta-bhc, Al, As, Cr, Cu, Cd, Fe, Hg, dibenzo(a,h)anthracene, dieldrin, endrin aldehyde, endosulfan I and II, endrin, endosulfan, SO4, H2S, fanthene, fluoranthene, fluorene, gamma-bhc, heptachlor, heptachlor epoxide, indeno(1,2,3-cd)pyrene, 1 & 2-methyl naphthalene, methyl-mercury, methoxychlor, ON, TOC, naphthalene, chlorpyrifos, demeton, diazinon, dibenzo(a,h)anthracene, disulfoton, esulfate, ethion, indpyren, malathion, parathion ethyl & methyl, pcb (1016, 1221, 1232), sed Mn, sed NH3, sed Ni, sed Pb, sed Sb, sed Se, sed Si, sed PO4, sed Zn	1/89-1/91
C-41	110-113	Collier Co inland seds and surface water, includes gordon r., golden gate & basin 6	277	CACO3, As, BOD, Cd, Ca, Cl, NO3, NO2 + NO3, NO2, ON, pH, pheophtyn-A, Chl-A corrected for pheophytin, Cr, Cu, depth, DO, elevation water surface, fecal coliform, flow cfs, Fl, Fe, Pb, N <sup>-</sup> , NH3, NH4, IN, TKN, TP, orthoP, K, salinity, secchi disc depth, Si, Na, specific conductance, streptococcus, SO4, total coliform, TOC, TSS, color, turbidity, Zn	1/88-12/98
C-46	125-128	Collier Co ambient water qual	298	alk CaCO3, NH3, Ar, Cd, Ca, TOC, Fe, TKN, Pb, Mg, NO2+NO3, Cl, Chl-A, Cr, color, Cu, depth, DO, fecal coliform, Fl, hardness CaCO3, NO2, NO3, pH, pheophytin, orthoP, TP, salinity, secchi depth, Si, Sp conductivity, SO4, temp water, total coliform, TDS, TN, TSS, turbidity, Zn	10/2000-6/2002
C-55	151-160	FDEP	2362	regulation water, sediment and tissue data; >100 parameters, some calculated	1/71-9/98
C-64	180-187	FDEP	1287	Tier 1 ambient montoring; algal growth, alk CaCO3, NH3, Ca, TOC, Fe, K, TKN, Mg, Cl, Chl-A, depth, DO, E. coli, enterococcus, fecal coliform, Fl, hardness CaCO3, Na, NO2, NO3, pH, pheophytin, orthoP, TP, salinity, secchi depth, Si, Sp conductivity, SO4, temp water, total coliform, color, TSS, turbidity	12/98-9/2002
C-66	190-201	FDEP tribs to Naples Bay included	1275	metals, pesticides, general water quality	1/99 to present?

<b>Report Page #</b>	<b>PDF page # of 867</b>	<b>Organization</b>	<b>Study ID</b>	<b>Data Available</b>	<b>Time of sampling</b>
C-68	204-221	FL-GWIS	2317	ambient groundwater; extensive metals, pesticides, PCBs, etc and general chemistry	3/85-11/02
C-70	224-226	FDOH, FDEP	2312	near shore fecal coliforms and enterococcus	7/2000 to present?
C-73	231-234	FIU	2421	estuarine sediment; metals, pesticides, PCBs	5/2001-12/2001
C-74	235-239	FIU Joe Boyer	1279	water quality available on website through 2003, 2004 almost complete, general water chemistry	9/92 to present
C-75	240-244	FMRI	1281	one sample site just south of study area; metals, pesticides, general chemistry	1/2000 to present
C-76	245	FMRI	2310	offshore HABs	2/94-5/97
C-94	306-310	NOAA	2300	mussel watch - one sample site kust south of study area estuary	8/84 to present?
C-153	511	DBHYDRO lower west coast recon	2333	three sample sites in study area; general water chemistry	5/84-1/2002
C-173	772	WQMB dbhydro	2322	four sites; general chemistry plus Pb, Hg, Zn, Cu, Cr, Cd, etc.	1/79-12/88
C-178	790	USEPA	2357	three coast sites; agency project code 1113S000; sediment and water quality - small set of parameters	7/75-10/77
C-179	794	USEPA	2358	four inland sites, project 1113S050; metals, general water chemistry, limited pesticides	3/70-6/70
C-185	813	NWIS - USGS	2366	wetlands; sediments and water; metals, pesticides, morphology, general water chem,	10/1901-9/2001

**Available Data Mentioned Without Details Due To Quality Assurance Concerns.**

<b>PDF page # of 867</b>	<b>Organization</b>	<b>Study ID</b>	<b>Data available</b>	<b>Time of sampling</b>
	Collier CO Rhonda Watkins	279	random groundwater monitoring hard copy	
	Collier CO Rhonda Watkins	280	trend groundwater monitoring hard copy	
	Collier CO Rhonda Watkins	2305	Lely Canal water quality monitoring hard copy	90-91?
139	Conservancy and Save the Bay Kathy Worley	1288, 2364	Three studies to monitor surface water quality in canal systems in the Naples area of southwest Florida to evaluate trends and assess the impacts of development. Save the Bays (Mooring and Venetian Bay), Vanderbilt Beach, and Aqualane Shores. Monthly and storm-event samples using YSI's and grab samples.	

**A7 EFFECTS OF INCREASED URBAN AND AGRICULTURAL LANDUSE ON THE ANTHROPOGENIC LOADING TO SOUTHWEST FLORIDA ESTUARIES**

Gardinali et al. 2002

**Sites With Sediment Contaminants Exceeding Threshold Effects Levels (TEL)**

Site	Contaminant	Dates Exceeded
CC04	As	Dec 2002
	Cu	June 2001, Dec 2002
	Hg	June 2001, Dec 2002
	Zn	Dec 2002
	∑PAH	June 2001, Dec 2002
	HMW PAH	June 2001, Dec 2002
	Acenaphthene	Dec 2002
	Acenaphthylene	June 2001, Dec 2002
	Phenanthcene	June 2001, Dec 2002
	Benz(a)anthracene	Dec 2002
	Benzo(a)pyrene	June 2001, Dec 2002
	Chrysene	June 2001, Dec 2002
	Dibenz(a,h)anthracene	June 2001, Dec 2002
	Fluoranthene	June 2001, Dec 2002
	Pyrene	June 2001, Dec 2002
CCX04	Dibenz(a,h)anthracene	Dec 2002 (not tested in 2001)
CC05	∑PAH	June 2001 (not tested in 2002)
CCX06	As	Dec 2002 (not tested in 2001)
	Cu	Dec 2002 (not tested in 2001)
	Cr	Dec 2002 (not tested in 2001)
	Dibenz(a,h)anthracene	Dec 2002 (not tested in 2001)
CC465	Hg	June 2001 (not tested in 2002)

## Summary Of Contaminants Included Sediment Evaluation

Category	Contaminants Included
Trace elements	Fe, Al, Be, V, Cr, Mn, Co, Ni, Cu, Zn, As, Cd, Sb, Pb, Sn, Se, and Hg
Polynuclear Aromatic Hydrocarbons (PAHs)	d8- Napthalene d10- Acenapthene d10-Phenanthrene d12- Chrysene d12-perylene Napthalene C2- Napthalene C3- Napthalene C4 Napthalene Biphenyl Acenaphylene Acenapthene Fluorene C1-Fluorenes C2-Fluorenes C3- Fluorenes Dibenzothiophene C1-Dibenzothiophenes C2-Dibenzothiophenes C3-Dibenzothiophenes Phenanthrene Anthracene Carbazole C1- Phenanthrene/anthracenes C2- Phenanthrene/anthracenes C3- Phenanthrene/anthracenes C4- Phenanthrene/anthracenes Fluoranthene Pyrene C1-Fluor/pyren Benzo[a]Anthracene Chrysene C1-Chrysenes C2-Chrysenes C3-Chrysenes C4-Chrysenes Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[e]pyrene Benzo[a]pyrene Indeno[1,2,3,-c,d]pyrene Dibenzo[a,h]anthracene Benzo[g,h,i] perylene Perylene 2- Methylnapthalene 1-Methylnapthalene 1-Methylphenanthrene
Chlorinated Hydrocarbons (Pesticides and PCBs)	<i>Chlorinated Benzenes</i> Tetrachlorobenzene 1,2,4,5 Tetrachlorobenzene 1,2,3,4 Pentachlorobenzene Hexachlorobenzene

Category	Contaminants Included
	<p>Hexachlorocyclohexanes  Alpha HCH  Beta HCH  Gamma HCH  Delta HCH</p> <p><i>Chlordane-related Compounds</i>  Heptachlor  Heptachlor Epoxide  Alpha Chlordane  Gamma Chlordane</p> <p><i>Other Cyclodiene Pesticides</i>  Aldrin  Dieldrin  Endrin</p> <p><i>Other Chlorinated Pesticides</i>  Chlorpyrifos  Mirex  Endosulfan II</p> <p><i>DDTs and Related Compounds</i>  2,4' DDE/Endosulfan I  4,4' DDE  2,4' DDD  4,4' DDD  2,4' DDT  4,4' DDT</p> <p><i>Individual PCBs</i>  PCB8/5  PCB18/17  PCB29  PCB28/31  PCB52  PCB44  PCB66  PCB101/90  PCB87/115  PCB153/132  PCB105  PCB138 /160  PCB187  PCB180  PCB170/190  PCB195/208</p>

### Additional Details

<b>Information</b>	<b>Page number</b>
Sample site latitude and longitude, sampling dates	11, 12
Figure 3 – Detailed map for the Naples Bay area collections	16
Figure 87 - Typical PAH homologue distribution from pyrogenic sources in Naples Bay North (US-41 Bridge).	44
Figure 143 - Proposed locations for the Naples Bay-Gordon River Site-Specific survey.	58
Spatial distribution maps for contaminants of concern	113 - 196
Results from individual test sites in an EXCEL file accompanying the WORD document	NA

**A8 ENVIRONMENTAL IMPACT STATEMENT ON IMPROVING THE REGULATORY PROCESS IN SOUTHWEST FLORIDA,  
LEE AND COLLIER COUNTIES, FLORIDA**

USACOE, 2000

<b>Information</b>	<b>Document Title</b> (EIS is presented in multiple individual files)	<b>Report Page #</b>	<b>PDF page #</b>
Five alternative futures used in permitting criteria proposal	2 Summary.pdf	iii	3
Table of Contents	3 Table of Contents.pdf	-	-
Map showing that Naples Bay study area are located in Zoom area C	4B Figure 2 Zoom Areas.pdf		-
Issues evaluated in detail and impact measurements	4 Section 1 Purpose and Need.pdf	6-8	6-8
Detailed review of the five alternative futures or ensembles, study area is <u>not</u> one of specific illustrations included	5 Section 2 Alternative Predictions.pdf	-	-
Summary of Criteria and Evaluation Factors	5K Table 3.pdf	-	-
Listed faunal species occurring in Lee and Collier County 1998	6 Section 3 Affected Environments.pdf	57	7
Detailed description of listed species in area with recovery plans	14 [A through J] [species name].pdf	-	-
Water quality summary for Golden Gate Canal and Naples Bay	6 Section 3 Affected Environments.pdf	82, 84	32, 34
Appendix E water quality data from all available organizations within the study area; includes designations of waters and water quality criteria established by FDEP 1996	12 Appendix E US EPA Water Quality.pdf	-	-
Definition of the Water Quality Index (WQI)	12 Appendix E US EPA Water Quality.pdf	8, 10	9, 11
Golden Gate Canal water quality summary	12 Appendix E US EPA Water Quality.pdf	39, 41, 41	39, 41, 41
District VI water quality summary (Lely Canal)	12 Appendix E US EPA Water Quality.pdf	45	45
Naples Bay water quality summary (also includes part of Rookery Bay)	12 Appendix E US EPA Water Quality.pdf	46,47,51	46,47,51
Summary of aquifer water quality data for all of SFWMD, table with standards exceedences for all of Collier County	12 Appendix E US EPA Water Quality.pdf	64, 68	64, 68

**A9 AN INTEGRATED SURFACE WATER QUALITY MONITORING PROGRAM FOR THE SOUTH FLORIDA COASTAL WATERS**

R. Jones and J. Boyer, FIU, 2000

<b>Sample site lat longs: 464 26 06.000 -81 47.213; 465 26 05.480 -81 48.686</b>	
<b>Raw data for 2000 in WQSppmPub.xls</b>	
<b>Information</b>	<b>PDF Page #</b>
Median monthly graph of salinity 1999 and 2000	83
Median monthly graph of temperature 1999 and 2000	84
Median monthly graph of DO 1999 and 2000	85
Median monthly graph of NH4 1999 and 2000	86
Median monthly graph of NO3 1999 and 2000	87
Median monthly graph of TP 1999 and 2000	88
Median monthly graph of soluble reactive PO4 1999 and 2000	89
Median monthly graph of chlorophyll a 1999 and 2000	90
Median monthly graph of alkaline phosphatase 1999 and 2000	91
Median monthly graph of TOC 1999 and 2000	92
Median monthly graph of TON 1999 and 2000	93
Median monthly graph of turbidity 1999 and 2000	94
Annual median map with Collier County and FIU data combined, salinity and DO	95
Annual median map with Collier County and FIU data combined, NO3 and NH4	96
Annual median map with Collier County and FIU data combined, TP and soluble reactive PO4	97
Annual median map with Collier County and FIU data combined, chlorophyll a and total organic carbon	98

## A10 NAPLES BAY STUDY

Simpson et al. 1979

Section Name, author	Data Included
Section A Introduction, Simpson	Objectives, rationale and some background; before and after photos pages A6-11
Section B Legal Analysis, Aaron	Summary of federal, state, county and city regulations and jurisdiction, single page summary on B10, may only be valuable only for historic perspective
Section C Hydrography, van de Kreeke	Narrative summary of bay and canal geomorphology
Section D Water Quality, Hicks	28 sites in Naples Bay, Gordon River and tributaries, residential canals with control sites in Dollar Bay; water parameters evaluated: NO <sub>2</sub> +NO <sub>3</sub> , NH <sub>3</sub> , ON, PO <sub>4</sub> , org P, TOC, turbidity, Chlorophyll, salinity, water temperature, DO; sediment parameters evaluated: TN, TP, H <sub>2</sub> S, volatile solids; bacterial testing for total coliforms monthly from 10/76 to 11/77 at 28 sites, for kinds and numbers at 9 sites eight times between 9/77 and 2/78. Section D(2) pgs 4-5 summarizes bacterial data, pg. 6 summarizes earlier study by Naples Bay committee at same sites (1970)
Section E Biology, Yokel	Biology component covered three population counts and characterizations over 12 months from 10/76-11/77: benthic, mid water and surface water. The benthic and surface surveys concentrated on inverts and plankton while the mid-water focus was fish; 38 stations were included in the benthic survey, 17 stations in the other two. Data were reported as total catch, monthly calculated diversity and recurrent group analysis.
Section F Engineering Standards for Residential Canals, Simpson	Depth table for residential canals provided on F9. Some discussion about septic tank issues on tributaries in the county, as well as sewage treatment plants.
Section G Conclusions and Recommendations	Besides conclusions presented in Section 4.2.2, impact of Hurrigan Donna and the Golden Gate Canal system is provided.
Appendix A General Characteristics of Naples Bay and Associated Canals, van de Kreeke	Graphs of typical width, length, depth and shoreline for Port Royal, Aqualane Shores I & II, Rock Creek, Boathaven/Golden Shores/Oyster Bay, Royal Harbor and Haldeman Creek with map in Figure 9. Fold out map of bathymetry of study area done by Rosentiel School of Marine and Atmospheric Science Division of Ocean Engineering. Table A-2 provides detailed data from canal #s 40-66 on length, width, building numbers and bank type, and is listed by main and sub-feeder number. Table A3 presents weather data during test period 11/1/76 – 11/30/77
Appendix B Legal, Aaron	Applicable legal statutes and case law
Appendix C Hydrography, van de Kreeke	Section C1 presents tides and velocities, Fig. 2 (pg 6) is graph of ebb and flood for 5 stations and Gordons Pass. Section C2 presents salinity distributions, Fig 1 graphs fresh water inflow and salinity at 4 stations, Fig 4 illustrates tidal variation for a single day at 4 stations Section C3 (pg 7) is a hydrodynamic model of Naples Bay Section C4 models velocity and salinity gradients in individual canals on different dates Section C5 presents observed velocity and salinity measures in 7 canals in June 77 and March 78, Table 1 (pg 37) has detailed velocities in a single canal Section C6 summarizes dye experiments in 8 canals in June 77 and March 78, Table II (pg 39) presents flushing times from these 8 canals, Fig 1 and 2 (pg 41, 42) graph the percent remaining dye. Fig 3 (pg 43) illustrates depth profiles for 3 canals from March 78
Appendix D Water Quality, Hicks	Includes narrative on methods and results. Fig D (pg 19) is map of sampling stations for entire study. Figs D2 and D2 – TP and TN concentrations 12/76-10/77, 3 Gordon River sites and 4 canals Fig D3 – rain and Golden Gate Canal discharge Fig D4 – mean TN in Gordon River and canals

Section Name, author	Data Included
	<p>Fig D5 and D6 – TOC  Fig D7 and D8 – turbidity  Fig D9 – light extinction coefficients for 2 canals on 6 days from 5/77-9/77  Fig D10 and 11 – salinity and chlorophyll respectively  Fig D12 – metabolic study: productivity and respiration (P&amp;R), plankton and benthic  Fig D13 - DO, 8 stations  Fig D14, 15 – DO and salinity depth profiles at 8 stations  Table D1 – NO<sub>2</sub>+NO<sub>3</sub>, 4 canals, monthly 12/76-11/77  Table D2 – NH<sub>3</sub>, 4 canals, monthly 12/76-11/77  Table D3 – TKN, 4 canals, monthly 12/76-11/77  Table D4 – TP, 4 canals, monthly 12/76-11/77  Table D5 – NO<sub>2</sub>+NO<sub>3</sub>, 3 sites in Gordon R., monthly 12/76-11/77  Table D6 – NH<sub>3</sub>, 3 sites in Gordon R, monthly 12/76-11/77  Table D7 – TKN, 3 sites in Gordon R, monthly 12/76-11/77  Table D8 – TP, 3 sites in Gordon R, monthly 12/76-11/77  Table D9 – NO<sub>2</sub>+NO<sub>3</sub>, Haldeman Creek, Golden Gate Canal, Rock Creek (3 tributaries), monthly 12/76-11/77  Table D10 – NH<sub>3</sub>, 3 tributaries, monthly 12/76-11/77  Table D11 – TKN, 3 tributaries, monthly 12/76-11/77  Table D12 – TP, 3 tributaries, monthly 12/76-11/77  Table 13 – same measures from other areas outside study for comparison  Table D14 - TOC Gordon R., monthly 12/76-11/77  Table D15 - TOC 4 canals, monthly 12/76-11/77  Table D16 - TOC 3 tributaries, monthly 12/76-11/77  Table D17 – mass transport in gC in 6 canals to and from bay on 3 sample dates  Table D18 – light extinction coefficient Gordon R., monthly 12/76-11/77  Table D19 - light extinction coefficient 4 canals, monthly 12/76-11/77  Table D20 – chlorophyll 4 canals, monthly 12/76-11/77  Table D21 – chlorophyll Gordon R., monthly 12/76-11/77  Table D22 – chlorophyll 3 tributaries, monthly 12/76-11/77  Table D23 - sediment chemistry, berms in 4 canals, 3 sampling dates: ON, NH<sub>3</sub>, TP, OM  Table D24 - sediment chemistry, troughs in 4 canals, 3 sampling dates: ON, NH<sub>3</sub>, TP, OM, sulfide  Table D25 - sediment chemistry, Gordon R., 3 sampling dates: ON, NH<sub>3</sub>, TP, OM, sulfide  Table D26 - sediment chemistry, 3 tributaries, 3 sampling dates: ON, NH<sub>3</sub>, TP, OM, sulfide  Table D27 – phytoplankton P&amp;R, Gordon R., 4 canals, spring, summer and fall  Table D28 – benthic P&amp;R, berms, Gordon R., 4 canals, spring, summer and fall  Table D29 – benthic P&amp;R, troughs, Gordon R., 4 canals, spring, summer and fall  Table D30 – monthly sampling P&amp;R and diffusivity, 4 canals and mid Gordon R.  Table D32 – 43 – Diel survey; DO, salinity and temp, 9 stations in Gordon R., 3 in Haldeman Creek and 1 in Rock Creek</p>
Appendix D1 Public Health, Hicks	<p>Contains a narrative on methods and results for total coliform and fecal coliform testing, monthly 10/76-11/77 at 29 stations covering Port Royal, Haldeman Creek, Royal Harbor, Aqualane I &amp; II, Rock Creek and Naples Bay  Table (pg 6,7) coliforms and fecal coliforms  Graphs (pg *-12, 14, 15) fecal coliforms</p>
Appendix D2 Microbiology, Hicks	<p>Contains a narrative on methods and results for coliforms and other bacterial counts  Table 0 – results from 2 different coliform methods, monthly 8/77 – 2/78 for discharge from sewage treatment plants on Haldeman Creek, Rock Creek and Naples plus 7 other stations</p>

Section Name, author	Data Included
	Table 1 – plate count of aerobic bacteria, 9/77 – 2/78, 9 stations Table 2 – tube count of aerobic bacteria, 9/77 – 2/78, 9 stations Table 3 – tube count total and fecal coliforms, 9/77 – 2/78, 9 stations Table 4- millipore filter, total and fecal coliforms, 9/77 – 2/78, 9 stations Table 5 – <i>Clostridium welchii</i> Table 5 – <i>Pseudomonas aeruginosa</i> Table 7 – fecal <i>Streptococci</i> sp. Table 8 – <i>Staphylococcus</i> sp.
Appendix E Biology, Yokel	Full methods and results with map of sampling sites pg E-1 13 recurrent benthic groups listed pg 22-25 3 recurrent fish groups listed pg 32 7 recurrent plankton groups listed pg 38-39 Graphs beginning on page E-2 Fig 2 – 7: salinity, temperature, DO at sample times Fig 8 – 10: average benthic catch Fig 11, 12: benthic diversity Fig 13 – 15: average fish catch Fig 16: average plankton catch Fig 17,18: fish and plankton diversity Tables beginning on pg E-14 Table 1: particle size at the 38 stations Table 2: benthic catch by phylum Table 3: dominant species Table 4: total benthic catch Table 5: DO, temperature and salinity for benthic sample sites Tables 6-16: statistics for benthic sampling Tables 17-19: midwater and plankton catch data Table 20: DO, temperature and salinity for midwater/surface sampling Tables 21-25: statistics for midwater and surface sampling Table 26: fish diversity Table 27: plankton diversity Tables 28-32: statistics for diversity calculations Table 33: benthic total count Table 34: fish total count Table 35: plankton total count Table 36 (pg 35-47) recurrent benthic groups by location Table 37: summary of Table 36 Table 38: recurrent fish groups Table 39: summary of Table 38 Table 40: recurrent plankton groups Table 41: summary of Table 40
Appendix F Engineering, Black, Crow and Eidsness	Fig 11 (pg 15) Waste water collection and drainage system schematics from report to City of Naples, July 1977.

**A11 BASIN V STORMWATER SYSTEM IMPROVEMENT PLAN PHASE I: BASIN  
ASSESSMENT AND CONCEPTUAL IMPROVEMENT PLAN**

CDM Draft, 2004

<b>Information</b>	<b>Report Page #</b>
List of the conveyance systems included in the assessment	1-1, 1-3
Map of study area	1-2
Data sources	2-1
Map of junction points for simulation	3-2
Map of hydrologic units simulated individually	3-6
Comparison of observed and predicted peak stages at key junctions	4-8
Predicted level of service for all modeled junctions (Table 5-1)	5-4 through 5-7
Comparison to reported flooding problems (Table 5-3)	5-9

TABLE 5-3

City of Naples - Basin V Stormwater System Improvement Plan, Phase I  
Existing System LOS Evaluation - Comparison To Reported Flooding Problems

Junction Name	Location	Observed or Reported Problem <sup>(2)</sup>	5-yr/24-hr Event		10-yr/72-hr Event		25-yr/72-hr Event		100-yr/72-hr Event	
			Road Flood Depth (ft)	LOS Class						
BV27020	15th Avenue North		0.4	C	1.3	D	1.8	D	2.3	D
BV35045	Golden Gate Parkway	Y	0.9	D	1.5	D	1.8	D	2.1	D
BV12020	12th Street North		1.0	D	1.5	D	1.8	D	2.0	D
BV35050	Golden Gate Parkway	Y	0.8	D	1.3	D	1.6	D	1.9	D
BV46020	12th Street North, east of Pond	Y		A	0.5	C	1.1	D	1.9	D
BV15080	intersection of 11th Street North and 10th Street North		0.4	C	1.1	D	1.5	D	1.8	D
BV35030	Golden Gate Parkway	Y	0.7	D	1.2	D	1.6	D	1.8	D
BV12030	intersection of 7th Avenue North and 12th Street North	Y	0.8	D	1.2	D	1.6	D	1.8	D
BV23011	15th Avenue North		1.1	D	1.3	D	1.5	D	1.7	D
BV43040	intersection of Diana Avenue and 10th Street North	Y	0.9	D	1.3	D	1.4	D	1.6	D
BV23015	d/s end of 14th Avenue North crossing		1.0	D	1.2	D	1.4	D	1.6	D
BV43035	Diana Avenue, d/s of 10th Street North	Y	0.8	D	1.2	D	1.4	D	1.6	D
BV43020	intersection of 22nd Avenue North and 11th Street North	Y	0.5	D	1.2	D	1.4	D	1.6	D
BV23010	corner of 15th Avenue North and 12th Street North		0.9	D	1.2	D	1.4	D	1.6	D
BV44015	14th Street North, north of 22nd Avenue North		0.5	C	0.8	D	1.2	D	1.5	D
BV13010	6th Avenue North		0.5	C	0.9	D	1.2	D	1.5	D
BV15070	11th Street North(8)			A	0.7	D	1.1	D	1.4	D
BV11020	8th Avenue North	Y	0.5	C	0.9	D	1.2	D	1.4	D
BV15040	intersection of 11th Street North and 10th Avenue North			A	0.6	D	1.0	D	1.4	D
BV23030	intersection of 12th Street North and 14th Avenue North	Y	0.6	D	0.9	D	1.1	D	1.3	D
BV35040	Golden Gate Parkway	Y	0.2	C	0.7	D	1.1	D	1.3	D
BV44045	intersection of Diana Avenue and 13th Street North		0.6	D	1.0	D	1.1	D	1.3	D
BV15090	intersection of 11th Street North and 10th Street North			A	0.5	D	0.9	D	1.3	D
BV23060	d/s end of 13th Avenue North crossing		0.3	C	0.7	D	0.9	D	1.3	D
BV42020	Golden Gate Parkway	Y	0.3	C	0.7	D	1.0	D	1.2	D
BV23065	u/s end of 13th Avenue North crossing		0.3	C	0.6	D	0.8	D	1.2	D
BV43017	22nd Avenue North, south of 10th Street North	Y	0.1	C	0.8	D	1.0	D	1.2	D
BV42010	Golden Gate Parkway	Y	0.3	C	0.8	D	1.0	D	1.2	D
BV26010	US 41, d/s of 14th Avenue North			A	0.3	C	0.7	D	1.2	D
BV44050	intersection of 14th Street North and 26th Avenue North		0.7	D	0.8	D	1.0	D	1.2	D
GRE01165	along Goodlette-Frank Road	Y		A	0.6	D	0.9	D	1.1	D
BV23035	intersection of 12th Street North and 14th Avenue North		0.4	C	0.7	D	0.9	D	1.1	D
BV23020	u/s end of 14th Avenue North crossing		0.4	C	0.7	D	0.9	D	1.1	D
BV14030	US 41, d/s of 7th Avenue North			A	0.2	C	0.6	D	1.1	D
BV23025	intersection of 12th Street North and 14th Avenue North		0.4	C	0.7	D	0.9	D	1.1	D
BV11007	u/s of intersection of 8th Ave N and Goodlette-Frank Road	Y	0.4	C	0.6	D	0.8	D	1.0	D
BV14060	d/s end of crossing at intersection of US 41 and 10th Avenue		0.1	C	0.5	C	0.7	D	1.0	D
BV47020	east of 12th Street North		0.1	C	0.6	D	0.9	D	1.0	D
BV26005	US 41, u/s of 12th Avenue North			A	0.2	C	0.5	C	1.0	D
BV24010	east of 11th Street North	Y	0.4	C	0.5	C	0.6	D	1.0	D
BV44005	intersection of 22nd Avenue North and 14th Street North		0.2	C	0.4	C	0.7	D	1.0	D
BV15060	intersection of 10th Avenue North and 10th Street North	Y		A	0.3	C	0.7	D	1.0	D
BV13021	10th Street North		0.3	C	0.5	C	0.7	D	0.9	D

**TABLE 5-3**  
**City of Naples - Basin V Stormwater System Improvement Plan, Phase I**  
**Existing System LOS Evaluation - Comparison To Reported Flooding Problems**

Junction Name	Location	Observed or Reported Problem <sup>(2)</sup>	5-yr/24-hr Event		10-yr/72-hr Event		25-yr/72-hr Event		100-yr/72-hr Event	
			Road Flood	LOS	Road Flood	LOS	Road Flood	LOS	Road Flood	LOS
			Depth (ft)	Class	Depth (ft)	Class	Depth (ft)	Class	Depth (ft)	Class
BV26015	US 41, d/s of 14th Avenue North			A		A	0.5	C	0.9	D
BV11010	intersection of 8th Avenue North and 12th Street North	Y	0.5	D	0.6	D	0.8	D	0.9	D
BV43018	intersection of 10th Avenue North and 22nd Avenue	Y	0.2	C	0.6	D	0.7	D	0.9	D
BV23040	intersection of 12th Street North and 14th Avenue North		0.1	C	0.4	C	0.6	D	0.8	D
BV43060	d/s end of 28th Avenue North & 12th St N crossing	Y		B		B	0.1	C	0.8	D
BV11070	d/s end of crossing at 10th Ave N and 13th St N	Y	0.5	C	0.6	D	0.7	D	0.8	D
BV14070	US 41, u/s of 10th Avenue			A	0.1	C	0.4	C	0.8	D
BV14075	US 41, d/s of 12th Avenue North			A	0.0	C	0.3	C	0.8	D
BV11060	u/s end of crossing at 10th Ave N and 13th St N	Y	0.7	D	0.7	D	0.8	D	0.8	D
BV13020	Alley		0.3	C	0.5	C	0.6	D	0.8	D
BV23050	12th Street North, south of 14th Avenue North			B	0.2	C	0.4	C	0.8	D
BV22010	14th Avenue North	Y	0.4	C	0.5	D	0.6	D	0.7	D
BV23055	12th Street North, north of 13th Avenue North			A	0.2	C	0.4	C	0.7	D
BV44020	intersection of 14th Street North and Royal Palm Drive		0.4	C	0.5	D	0.6	D	0.7	D
BV44030	Royal Palm Drive, u/s of 13th Street North		0.5	C	0.5	D	0.6	D	0.7	D
BV43063	intersection of 28th Avenue North and 12th Street North		0.2	C	0.4	C	0.6	D	0.7	D
BV14050	intersection of US 41 and 8th Avenue North			A	0.2	C	0.4	C	0.7	D
BV23070	south of 13th Avenue North	Y		A		A	0.2	C	0.7	D
BV44055	intersection of 13th Street North and 26th Avenue North		0.2	C	0.4	C	0.6	D	0.7	D
BV43065	28th Avenue north, west of 12th Street North		0.2	C	0.4	C	0.5	D	0.7	D
BV44025	intersection of Royal Palm Drive and 13th Street North		0.4	C	0.5	D	0.6	D	0.7	D
BV47030	south of 12th St North and 29th Ave North intersection			A	0.3	C	0.5	D	0.7	D
BV44010	22nd Avenue North	Y	0.1	C	0.2	C	0.4	C	0.7	D
BV43067	28th Avenue north, d/s of 10th Street North		0.4	C	0.5	C	0.6	D	0.6	D
BV43055	intersection of 28th Avenue North and 12th Street North	Y		B	0.1	C	0.3	C	0.6	D
BV14055	US 41, u/s of 8th Avenue North			A	0.1	C	0.3	C	0.6	D
BV14015	intersection of US 41 and 3rd Avenue North			A		A		A	0.6	D
BV23045	12th Street North, south of 14th Avenue North			B		B	0.2	C	0.5	D

Notes:

- (1) - All reported or observed locations and predicted 100-yr LOS Class D locations are shown.
- (2) - Observed or reported flooding problem areas identified on City flooding problem area map or where flooding was observed for the Sept 24-29, 2003 calibration event.
- (3) - Results are ranked by predicted flooding depth for 100-yr/72-hr event.

## A12 BIG CYPRESS BASIN INTEGRATED HYDROLOGIC-HYDRAULIC MODEL

DHI Water and Environment, 2002

<b>Information</b>	<b>PDF file, PDF Page #</b>
MIKE SHE model components used	BCB_chapt_1.pdf, 6
Monthly rainfall and crop reference potential evapotranspiration for Corkscrew	BCB_chapt_2-1-2.pdf, 6
Map of eleven channels used in final model	BCB_chapt_2_1-2.pdf, 11
Contour and DEM maps	BCB_chapt_2_1-2.pdf, 15-16
Map of control structures used in model	BCB_chapt_2_1-2.pdf, 20
Boundaries for separate overland flow areas simulated in model (9,11 and part of 7 are in Naples Bay study area	BCB_chapt_2_3-5.pdf, 4
Crop growth period and parameters used in model	BCB_chapt_2_3-5.pdf, 9
Soil classes used to represent landscape types	BCB_chapt_2_3-5.pdf, 12
Geologic components	BCB_chapt_2_5-8.pdf, 2-9
Map of public water supply well locations	BCB_chapt_2_5-8.pdf, 10
Map of drained areas	BCB_chapt_2_5-8.pdf, 12
Simulation results for Golden Gate Canal, Airport Road Canal, I-75 Canal	BCB_chapt_3-1.pdf, start 23, continued in BCB_chapt_3-5.pdf
Discussion and model results for water balances	BCB_chapt_4.pdf, 1-4
Maps of simulated overland water depth for different seasons	BCB_chapt_5-1a.pdf and BCB_chapt_5-1b.pdf
Results of groundwater modeling	BCB_chapt_6.pdf
Results of GGC diversion to Henderson Creek	BCB_chapt_7-2.pdf
Conclusions	BCB_chapt_8.pdf

## A13 GORDON RIVER BASIN EXTENSION MODELING

<b>Information</b>	<b>Report Page #</b>	<b>PDF Page #</b>
Five project tasks defined	1-2	9, 10
Eight reaches simulated identified	1-2	9
Section 2 presents data sources.	2-1	12, 13
Section 3 Methodology, Fig 3-2 is a map of model schematic	3-2	15, 16
Fig 3-2 map of sub-basins	3-6	20
Table 3-1 list of 11 aggregated land use categories used for water quality component	3-8	22
Hydrological properties for land use categories App A Table A-2	Not numbered	111-112
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Channel inventory with name, bathymetry, length and slope Table A-7	Not numbered	121-124
Summary of tidal Stillwater elevations from City of Naples Draft Stormwater Management Plan Phase I Inventory (CDM 1990) and City of Naples Basin VI Assessment Report (1998)	3-16	30
Review of potential BMP practices	3-41	55-72
Table 3-15 BMP suitability guidelines for Collier County	3-63	77
Section 4 Model Calibration	4-1	79
Section 5 Existing System Evaluation	5-1	87
List of identified flood areas from community meeting May 2001	5-1	87
Model results 25 year storm location of flooding Fig 5-1	5-5	92
Model results 25 year storm location of flooding narrative description	5-2	88, 93
Model results 100 year storm location of flooding Fig 5-2	5-7	94
Model results 100 year storm location of flooding narrative description	5-6	93, 95
Junction inventory of inverted elevation, depth and control elevation Table A5	Not numbered	116-118
Water quality seasonal loadings summarized in Table 5-2 and Fig 5-3	5-9	96, 97-98
Tables 5-4, 5, 6 present unit loads for individual hydrological units, ranking and unit yields	5-13	100-105, 106, 107
Full results for each hydrological unit summarized in Appendices A8 Annual, A9 Spring/summer, A10 Fall/winter	Not numbered	125 , 140, 155

## A14 BIG CYPRESS BASIN WATERSHED MANAGEMENT PLAN, FLOOD CONTROLELEMENT

BCB-SFWMD Draft, 2001

<b>Information</b>	<b>Report Page #</b>	<b>PDF Page #</b>
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Map of alternative water management strategies	54	55
Consideration of alternative to divert GGC flow to Henderson Creek including costs, map and simulated water surface profile	59, 60, 63-67	60, 61, 64-68
Consideration of alternative to modify GGC structure	84-88	85-89
Summary of existing GGC crossings	89	90
Consideration of alternative to modify CR951 canal	93	94
Consideration of alternative to construct ASR facilities for GGC overflow near CR951	100	101
Final recommendations schematic	117	118

**A15 COLLIER COUNTY PHASE II MS4 STORMWATER MANAGEMENT PROGRAM  
(SWMP) ELEMENTS FORMS**



For FDEP Internal Use Only  
Permit ID: FLR \_\_\_\_\_

# NOTICE OF INTENT TO USE GENERIC PERMIT FOR DISCHARGE OF STORMWATER FROM PHASE II MUNICIPAL SEPARATE STORM SEWER SYSTEMS (RULE 62-621.300(7)(b), F.A.C.)

**INSTRUCTIONS:**

- This NOI must be completed and submitted to the Department to authorize use of the Generic Permit for Discharge of Stormwater from Phase II Municipal Separate Storm Sewer Systems ("MS4 GP"), provided in Rule 62-621.300(7)(a), F.A.C.
- The type of municipal separate storm sewer system that qualifies for coverage under the MS4 GP and the applicable Phase II MS4 stormwater management program requirements are specified in the permit. You should familiarize yourself with the MS4 GP before completing this NOI.
- Submit this fully completed NOI, permit fee, and required attachments by mail to the address in the box at right. **DO NOT SUBMIT any materials not in the checklist in Section V. of this NOI.**
- **Please print or type information in the appropriate areas below and complete each section.**

**Submit NOI, permit fee, and required attachments to:**  
 NPDES Stormwater Notices Center  
 M.S. #2510  
 Florida Department of Environmental Protection  
 2600 Blair Stone Road  
 Tallahassee, FL 32399-2400

SECTION I. PHASE II MS4 OPERATOR INFORMATION			
<b>A.</b>	Name of the Phase II MS4 Operator: <b>Collier County Board of County Commissioners</b>		
<b>B.</b>	Name of the Phase II MS4 Responsible Authority: <b>Norman Feeder</b>		
	Title: <b>Administrator, Transportation Services Division</b>		
	Mailing Address: <b>2675 South Horseshoe Drive, Suite 401</b>		
	City: <b>Naples</b>	Zip Code: <b>34104</b>	County: <b>Collier</b>
	Telephone Number: <b>(239) 774-8192</b>		
<b>C.</b>	Name of the Designated Phase II MS4 Stormwater Management Program Contact: <b>Steven V. Preston</b>		
	Title: <b>Project Manager</b>		
	Department: <b>Road Maintenance Department</b>		
	Mailing Address: <b>2685 South Horseshoe Drive, Suite 212</b>		
	City: <b>Naples</b>	Zip Code: <b>34104</b>	County: <b>Collier</b>
	Telephone Number: <b>(239) 732-2501</b>		
	E-mail Address: <b>stevepreston@colliergov.net</b>		
<b>D.</b>	Location of the Phase II MS4 (if different than the mailing address in Section I.C. above):		
	Street Address:		
	City:	Zip Code:	County:
<b>E.</b>	Approximate center of the Phase II MS4:		
	Latitude: <b>26 ° 07 ' 46 "</b>	Longitude: <b>81 ° 45 ' 43 "</b>	
<b>F.</b>	Phase II MS4 ownership status (check one): <input checked="" type="checkbox"/> Public <input type="checkbox"/> State <input type="checkbox"/> Federal		
<b>G.</b>	Total resident population of the Phase II MS4: <b>271,000</b>		
<b>H.</b>	Name of the urbanized area(s) the Phase II MS4 is located within (if applicable): <b>Unincorporated Collier County</b>		
<b>I.</b>	Name of the Water Management District the Phase II MS4 is located within (check all that apply):		
	<input type="checkbox"/> Northwest Florida Water Management District	<input type="checkbox"/> Southwest Florida Water Management District	
	<input type="checkbox"/> Suwanee River Water Management District	<input type="checkbox"/> St. John's River Water Management District	
	<input checked="" type="checkbox"/> South Florida Water Management District		



**SECTION IV. MINIMUM CONTROL MEASURES**

**A.** Complete the Phase II MS4 Stormwater Management Program (SWMP) Elements Form in Appendix A for each minimum control measure described in Part VI. of the MS4 GP, except the Post-construction Stormwater Management in New Development and Redevelopment minimum control measure if you have chosen the qualifying alternative program option for this measure under Part X. of the permit. If you choose, however, to implement BMPs for the Post-construction measure, please complete a SWMP Elements Form for the measure.

Include in the SWMP Elements Form all best management practices (BMPs) currently in place or planned for each element of each minimum control measure. There is no limit to the number of BMPs you may include. Make copies of the form as necessary to accommodate all of your BMPs. The completed forms, in their entirety, will be considered by the Department to be the outline of your proposed stormwater management program. Attach all completed forms to this NOI.

**B.** Provide the total number of pages of SWMP Elements Forms that are attached to this NOI for each minimum control measure:

<u>Minimum Control Measure</u>	<u># of Pages</u>
Public Education and Outreach as to Stormwater Impacts	2
Public Involvement/Public Participation	2
Illicit Discharge Detection and Elimination	3
Construction Site Stormwater Runoff Control	2
Post-construction Stormwater Management in New Development and Redevelopment	0
Pollution Prevention/Good Housekeeping for Municipal Operations	3

**SECTION V. MATERIALS TO BE SUBMITTED WITH THIS NOI**

Only the following materials are to be submitted to the Department along with your fully completed and signed NOI (check the appropriate box to indicate whether the item is attached or is not applicable):

- |                                     |                                     |  |
|-------------------------------------|-------------------------------------|--|
| <u>Attached</u>                     | <u>N/A</u>                          |  |
| <input checked="" type="checkbox"/> |                                     | The permit application fee, as prescribed by Rule 62-4.050(4)(d)(6), F.A.C. Make all check and money orders payable to the Florida Department of Environmental Protection.   |
| <input checked="" type="checkbox"/> |                                     | A fully completed Phase II MS4 Stormwater Management Program Elements Form (see Appendix A) for <u>each</u> minimum control measure except the Post-construction Stormwater Management in New Development and Redevelopment minimum control measure if you have chosen the qualifying alternative program option for this measure under Part X. of the MS4 GP. |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Additional entities information, as required under the note in Section II.B. of this NOI.  |

**DO NOT SUBMIT ANY OTHER MATERIALS**  
(such as your complete Stormwater Management Plan, ordinances, storm sewer map, public outreach, etc.)

**SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE**

*The Responsible Authority listed in Section I.B. of this NOI must sign the following certification statement.<sup>1</sup>*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Phase II MS4 Responsible Authority (type or print): Norman Feeder

Title: Administrator, Transportation Services Division

Signature: \_\_\_\_\_ Date:  / /

<sup>1</sup> Signatory requirements are contained in Rule 62-620.305, F.A.C.  
DEP Form 62-621.300(7)(b), May 1, 2003

**INSTRUCTIONS FOR APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**General Instructions**

- Complete this form for each minimum control measure described in Part VI. of the Generic Permit for Discharge of Stormwater from Phase II Municipal Separate Storm Sewer Systems ("MS4 GP") provided in Rule 62-621.300(7)(a), F.A.C., except the Post-construction Stormwater Management in New Development and Redevelopment minimum control measure if you have chosen the qualifying alternative program option for this measure under Part X. of the permit. If you choose, however, to implement BMPs for the Post-construction measure, please complete a SWMP Elements Form for the measure.
- Include all best management practices (BMPs) currently in place or planned for each element of each minimum control measure. There is no limit to the total number of BMPs you may include.
- Make copies of the form as necessary to accommodate all of your BMPs.
- The completed forms, in their entirety, will be considered by the Department to be the outline of your proposed stormwater management program. Attach the forms to the NOI and submit to the Department at the address provided on the NOI.
- **Please print or type information in the appropriate areas of this form.**

**Section A.I: MINIMUM CONTROL MEASURE**

- Indicate which minimum control measure the BMPs in Section A.II. address. Check only one measure. Use a separate form for each measure.

**Section A.II: BEST MANAGEMENT PRACTICES**

- Include BMPs only for the measure you have identified in Section A.I. The Department encourages the use of the Florida Land Development Manual: A Guide to Sound Land and Water Management (FDER, 1988) and the U.S. Environmental Protection Agency's National Menu of Best Management Practices for Storm Water Phase II in developing Phase II stormwater management programs. Both are available from the Department.
- Element ID: Table 1 below includes all the minimum control measure elements required under Part IV. of the MS4 GP. Using Table 1, identify which element of the minimum control measure each BMP addresses. For example, a BMP addressing the procedures for site plan review under the Construction Site Stormwater Runoff Control Minimum Control Measure would be labeled as "4d." You must include at least one BMP for each element.
- BMP Number: For each minimum control measure, number the BMPs starting with 01 and continue the numbering in sequential order on any additional forms for the measure. The numbering of the BMPs is for reference purposes only and does not provide additional weight to, nor prioritize, one BMP over another.
- Measurable Goals: List the measurable goal(s) for each BMP. You must include at least one measurable goal for each BMP and may include as many as necessary for the BMP – you are not limited to the four lines provided on the form.
- Schedule for Implementation/Completion: For each measurable goal, include the year each action will be implemented and, as applicable, the interim milestones, completion date, or planned frequency of the action.
- Responsible Entity/Department: Include the name of the entity (if other than the Phase II MS4 Operator) or of the internal department (if it is the Phase II MS4 Operator) responsible for implementing or coordinating each BMP.

**Page Numbering**

- Once this form has been completed for each minimum control measure, place the forms in an order corresponding to the order of the measures in Table 1 (below) and number the forms accordingly at the bottom of each.

**Table 1: Minimum Control Measure Required Elements**

Element ID	Description of Minimum Control Measure Required Elements
1a	<p><b>1. Public Education and Outreach Minimum Control Measure:</b></p> <p>a) Implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.</p>
2a	<p><b>2. Public Participation/Involvement Minimum Control Measure:</b></p> <p>a) Comply with State and local public notice requirements when implementing a public involvement/public participation program.</p>
3a	<p><b>3. Illicit Discharge Detection and Elimination Minimum Control Measure:</b></p> <p>a) Develop, if not already completed, a storm sewer system map, showing the location of all known outfalls and the names and location of all surface waters of the State that receive discharges from those outfalls.</p>
3b	<p>b) To the extent allowable under State or local law, effectively prohibit through ordinance, or other regulatory mechanism, of non-stormwater (i.e., "illicit") discharges into the storm sewer system and implement appropriate enforcement procedures and actions.</p>
3c	<p>c) Develop and implement a plan to detect and eliminate non-stormwater discharges, including illegal dumping, to the MS4.</p>
3d	<p>d) Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.</p>
4a	<p><b>4. Construction Site Stormwater Runoff Control Minimum Control Measure:</b></p> <p>a) Develop and implement, to the extent allowable under State or local law, an ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to reduce pollutants in any stormwater runoff to the Phase II MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of pollutants associated with stormwater discharges from construction activity disturbing less than one acre must also be included if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.</p>
4b	<p>b) Develop and implement requirements for construction site operators to implement appropriate erosion and sediment control best management practices.</p>
4c	<p>c) Develop and implement requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality.</p>
4d	<p>d) Develop and implement procedures for site plan review that incorporate consideration of potential water quality impacts.</p>
4e	<p>e) Develop and implement procedures for receipt and consideration of information submitted by the public.</p>
4f	<p>f) Develop and implement procedures for site inspection and enforcement of control measures.</p>
5a	<p><b>5. Post-construction Stormwater Management in New Development and Redevelopment Minimum Control Measure: NOT REQUIRED IF USING QUALIFIED ALTERNATIVE PROGRAM</b></p> <p>a) Use an ordinance or other regulatory mechanism, to the extent allowable under State or local law, to address from post-construction runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the Phase II MS4. The program must require that controls be in place that would prevent or minimize water quality impacts from new development or redevelopment.</p>
5b	<p>b) Develop and implement strategies that include a combination of structural and/or non-structural best management practices (BMPs) appropriate for the community.</p>
5c	<p>c) Require adequate long-term operation and maintenance of BMPs.</p>
6a	<p><b>6. Municipal Operation Pollution Prevention and Good Housekeeping Minimum Control Measure:</b></p> <p>a) Develop and implement an operation and maintenance program that has the ultimate goal of preventing or reducing pollutant runoff from MS4 operator activities, such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.</p>
6b	<p>b) Using training materials that are available from EPA, the Department, or other organizations, include employee training to prevent and reduce stormwater pollution from MS4 operator activities.</p>

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> 1. Public Education and Outreach    | <input type="checkbox"/> 3. Illicit Discharge Detection/Elimination     | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input type="checkbox"/> 2. Public Involvement/Participation | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation/Completion	D Responsible Entity/Department
—			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
—			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
—			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
—			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
—			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	

Page # \_\_\_ of \_\_\_ total pages of SWMP Elements Forms attached to the NOI

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> 1. Public Education and Outreach | <input type="checkbox"/> 3. Illicit Discharge Detection/Elimination     | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input type="checkbox"/> 2. Public Involvement/Participation         | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation/Completion	D Responsible Entity/Department
1a	01	<b>Small Quantity Generator Program –</b> Inspection of businesses that are potential generators of Hazardous waste. Offer an assessment report, informational services.	1. Number of inspections / reports completed.	1. Current Program	<b>Collier County Pollution Control and Prevention Department</b>
			2. Number of seminars / events conducted.	2. Current Program	
			3.	3.	
			4.	4.	
1a	02	<b>Household Hazardous Waste Collection Program</b> Offers County residents a way to properly dispose of hazardous waste generated by household use without charge. Includes informational component.	1. Number of media announcements.	1. Current Program	<b>Collier County Solid Waste Department</b>
			2. Number of informational brochures distributed.	2. Current Program	
			3. Number of outreach events held.	3. Current Program	
			4.	4.	
1a	03	<b>Yard Waste Collection &amp; Composting Program</b> Regular pick-up scheduled for yard waste generated by residents and businesses. Material composted at County landfill is offered free for landscaping. Includes informational component.	1. Number of informational brochures distributed.	1. Current Program	<b>Collier County Solid Waste Department</b>
			2. Number of media spots aired.	2. Current Program	
			3. Number of representations at events.	3. Current Program	
			4. Number of visits to website.	4. Current Program	
1a	04	<b>4-H programs relating to water education.</b> <b>Earth Connections</b> (grades K-6) <b>Water Wise Guys</b> (grades 3-6) <b>Aquatic Ecosystems</b> (grades 4-9)	1. Number of classes hold for each program.	1. Current Program	<b>Collier County University Extension Service Department</b>
			2. Number of students attending each program.	2. Current Program	
			3.	3.	
			4.	4.	

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> 1. Public Education and Outreach               | <input type="checkbox"/> 3. Illicit Discharge Detection/Elimination     | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input checked="" type="checkbox"/> 2. Public Involvement/Participation | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	A	B	C	D
		Description of BMP	Measurable Goal(s)	Schedule for Implementation/Completion	Responsible Entity/Department
2a	01	<b>Adopt-A-Road Program</b> – Sponsor groups adopt sections of road right-of-way and volunteer to pick up trash on a regular basis. These right-of-ways often include roadside swales or they next to storm sewer system facilities.	1. Number of sponsor groups	1. Current Program	Collier County Road Maintenance Department
			2. Number of roadway miles adopted	2. Current Program	
			3. Miles of roadway swales effected	3. Current Program	
			4. Tons of trash collected	4. Current Program	
2a	02	<b>Coastal Cleanup Program</b> – Collier County's participation in the International Coastal Cleanup event held in over 900 Florida locations. Annual event mission is to remove debris and collect data on the type, amount and sources of the debris along and in waterways with a volunteer work force.	1. Number of events	1. Current Program	Collier County Solid Waste Department & Keep Collier Beautiful
			2. Number of locations per event	2. Current Program	
			3. Number of participants per event	3. Current Program	
			4. Amount and type of trash collected	4. Current Program	
2a	03	<b>Bay Days / Great American Cleanup</b> – Collier County's participation in the annual event to pick up trash and debris, much like the Coastal Cleanup program.	1. Number of events	1. Current Program	Collier County Solid Waste Department & Keep Collier Beautiful
			2. Number of locations per event	2. Current Program	
			3. Number of participants per event	3. Current Program	
			4. Amount and type of trash collected	4. Current Program	
2a	04	<b>Florida Yards &amp; Neighborhoods Program</b> – Involves neighborhoods interested in using landscaping techniques that promote less use of pesticide, fertilizer, and irrigation. In Collier County, this includes environmental enhancement of neighborhood stormwater detention ponds.	1. Program startup with grant money	1. Current Program	University Extension Services Department
			2. Assess program effectiveness and seek permanent funding, if warranted # of contacts attempted # of presentations to prospects # of groups active # assessment report presentations for funding effort	2. Feb. 2004	
			3. Expand program relative to funding level	3. May 2004 / Apr. 2008	

**Stormwater Management Section / TECM APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> 1. Public Education and Outreach               | <input type="checkbox"/> 3. Illicit Discharge Detection/Elimination     | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input checked="" type="checkbox"/> 2. Public Involvement/Participation | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation/Completion	D Responsible Entity/Department
2a	05	Storm Sewer Inlet Marking Program – Volunteer groups affix plastic markers with “No Dumping” message onto inlets to the storm sewer system.	1. Program startup with grant money	1. May 2003 / Mar. 2004	Collier County Stormwater Management
			2. Assess program effectiveness and seek permanent funding, if warranted # of contacts attempted # of presentations to respondents # of groups active # of markers placed # of funding requests	2. Apr. 2004 / Nov. 2004	
			3. Expand program relative to funding level	3. May 2005 / Apr. 2008	
			4.	4.	
—	—		1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
—	—		1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
—	—		1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> 1. Public Education and Outreach    | <input checked="" type="checkbox"/> 3. Illicit Discharge Detection/Elimination | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input type="checkbox"/> 2. Public Involvement/Participation | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control        | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation/Completion	D Responsible Entity/Department
3a	01	Develop a storm sewer system map showing outfall locations, and add to existing maps of primary / secondary canal system and waters of the State.	1. Research methods of field data collection and obtain funding.	1. May 2003 / Aug. 2003	Collier County Road Maintenance Department
			2. Develop program and contract for services.	2. Oct. 2003 / Feb. 2004	
			3. Field survey and data collection of existing facilities, and updates of changes to mapped inventory.	3. Mar. 2004 / Apr. 2008	
			4. Develop GIS shape file of County maintained roadway drainage system for overlay on primary / secondary canal system and waters of the State.	4. Jan. 2005 / Feb. 2008	
3a	02	New stormwater management facilities updated to existing drainage map inventory.	1. Protocol developed for systematic addition of new permitted outfalls.	1. May 2003 / Sep. 2003	Collier County Stormwater Management
			2. Outfall information received updated to existing mapped inventory.	2. Oct. 2003 / Feb. 2008	
			3.	3.	
			4.	4.	
3b	01	Enforcement of existing Collier County Ordinances Numbers 74-50 as amended, and Number 99-51	1. Number of reported violations.	1. May 2003 / Apr. 2008	Collier County Code Enforcement Department
			2. Number of fines levied.	2. Oct. 2003 / Apr. 2008	
			3. Number of corrected / remediated violations.	3. Oct.2003 / Apr. 2008	
			4.	4.	
3b	02	Review of Collier County Ordinances and Land Development Code for sufficiency.	1. Review of County ordinances.	1. June 2003 / Apr. 2004	Collier County Stormwater Management
			2. Recommend changes to ordinances, if needed.	2. May 2004 / Apr. 2008	
			3.	3.	
			4.	4.	

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> 1. Public Education and Outreach    | <input checked="" type="checkbox"/> 3. Illicit Discharge Detection/Elimination | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input type="checkbox"/> 2. Public Involvement/Participation | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control        | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	A	B	C	D
		Description of BMP	Measurable Goal(s)	Schedule for Implementation/Completion	Responsible Entity/Department
3c	01	<b>Pollution Complaint Investigation Program –</b> Coordinate program including investigation, logging, referral to other agencies where appropriate.	1. Number and type of surface water complaints.	1. Current Program	Collier County Pollution Control and Prevention Department
			2. Number of violations of State/Local regulations.	2. Current Program	
			3. Number of fines levied.	3. Current Program	
			4.	4.	
3c	02	<b>Small Quantity Generator Program –</b> Inspection of businesses that are potential generators of Hazardous waste. Offers an assessment report, information/ educational services, including referrals to further resource.	1. Number of assessment reports to businesses.	1. Current Program	Collier County Pollution Control and Prevention Department
			2. Number of illegal connections found, or unsafe conditions noted.	2. Current Program	
			3. Number resolved.	3. Current Program	
			4. Number unresolved and reported to FDEP.	4. Current Program	
3c	03	<b>Domestic Wastewater Compliance Inspection Program –</b> Inspect privately owned (Non-Municipal) Sewage Treatment Plants within Collier County.	1. Number of inspections.	1. Current Program	Collier County Pollution Control and Prevention Department
			2. Number of non-compliance/re-inspections.	2. Current Program	
			3. Number of violations referred to FDEP.	3. Current Program	
			4. Number of resolved violations.	4. Current Program	
3c	04	<b>Sludge Transportation &amp; Disposal Management Program –</b> Regulates the transportation and disposal of domestic sludge within Collier County.	1. Number of Sludge Transportation Licenses issued	1. Current Program	Collier County Pollution Control and Prevention Department
			2. Number of Sludge Disposal Permits issued.	2. Current Program	
			3. Number of sludge disposal site inspections.	3. Current Program	
			4. Number of non-compliance re-inspections.	4. Current Program	

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> 1. Public Education and Outreach    | <input checked="" type="checkbox"/> 3. Illicit Discharge Detection/Elimination | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input type="checkbox"/> 2. Public Involvement/Participation | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control        | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation/Completion	D Responsible Entity/Department
3c	05	<b>Septic System Permitting and Inspection Program</b> – Plan review, site evaluation, system construction permitting, inspection, consultation and other activities that are intended to insure that septic systems are properly situated and will function properly without creating pollution problems.	1. Number of complaints investigated.	1. Current Program	Collier County Engineering Health Department
			2. Number of violations.	2. Current Program	
			3. Number of fines levied.	3. Current Program	
3d	01	<b>Small Quantity Generator Program</b> – Inspection of businesses that are potential generators of Hazardous waste. Offers an assessment report, informational services.	1. Number of inspections / reports completed.	1. Current Program	Collier County Pollution Control and Prevention Department
			2. Number of seminars / events conducted	2. Current Program	
			3. Number of businesses attending seminars.	3. Current Program	
			4. Number of informational brochures distributed.	4. Current Program	
3d	02	<b>Household Hazardous Waste Collection Program</b> Offers County residents a way to properly dispose of hazardous waste generated by household use without charge. Includes informational component.	1. Number of media announcements.	1. Current Program	Collier County Solid Waste Department
			2. Number of informational brochures distributed.	2. Current Program	
			3. Number of website visits.	3. Current Program	
			4. Number of outreach events held.	4. Current Program	
3d	03	<b>Stormwater Management / NPDES Website</b> – Website with stormwater program information, and links to other websites and information sources.	1. Develop website.	1. May 2003 / Sept. 2003	Collier County Stormwater Management
			2. Update website with Haz. Mat. links	2. May 2003 / Sep. 2003	
			3.	3.	
3d	04	<b>Employee Training Program</b> – Routine training program for County Staff will add new training concerning storage, use, and disposal of hazardous materials as described under Element 6a.	1. Training materials developed.	1. May 2004 / Apr. 2005	Collier County Pollution Control and Prevention Department
			2. Number of training sessions.	2. May 2005 / Apr. 2008	
			3. Percent of staff meeting their training needs.	3. May 2005 / Apr. 2008	

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> 1. Public Education and Outreach    | <input type="checkbox"/> 3. Illicit Discharge Detection/Elimination                | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input type="checkbox"/> 2. Public Involvement/Participation | <input checked="" type="checkbox"/> 4. Construction Site Stormwater Runoff Control | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	A	B	C	D
		Description of BMP	Measurable Goal(s)	Schedule for Implementation/Completion	Responsible Entity/Department
4a	01	Implement existing Collier County Land Development Code and Ordinances controlling sedimentation and erosion control, and pollution control on all construction sites, including sanctions; <b>review and make enhancements</b> to insure compliance with NPDES requirements.	1. Review this BMP and relevant portions of the LDC and Ordinances with County staff responsible for its implementation.	1. May 2003 / Apr. 2004	Engineering Services Department & Stormwater Management
			2. Number of County inter-department meetings for review held.	2. May 2003 / Apr. 2008	
			3. List of proposed enhancements to LDC and Ordinances.	3. Apr. 2004 / Oct. 2008	
			4. Enhance LDC language where needed.	4. Jan. 2005 / Apr. 2008	
4b	01	Implement existing Collier County LDC requiring construction site operators to implement appropriate erosion and sediment control BMPs, and <b>review the LDC language</b> for potential enhancement.	1. Review this BMP and relevant portions of the LDC and Ordinances with County staff responsible for its implementation.	1. May 2003 / Apr. 2004	Engineering Services Department & Stormwater Management
			2. Number of County inter-department meetings for review held.	2. May 2003 / Apr. 2008	
			3. List of proposed enhancements to LDC.	3. Jan. 2005 / Apr. 2008	
			4. Enhance LDC language where needed.	4. Jan. 2005 / Apr. 2008	
4c	01	Implement existing Collier County LDC and Ordinances requiring construction site operators to control all waste on construction sites in order to protect on-site water treatment preserve areas, and water quality off-site, and <b>review the LDC language</b> for potential enhancement.	1. Review this BMP and relevant portions of the LDC and Ordinances with County staff responsible for its implementation.	1. May 2003 / Apr. 2004	Engineering Services Department & Stormwater Management
			2. Number of County inter-department meetings for review held.	2. May 2003 / Apr. 2008	
			3. List of proposed enhancements to LDC and Ordinances.	3. Jan. 2005 / Apr. 2008	
			4. Enhance LDC language where needed.	4. Jan. 2005 / Apr. 2008	
4d	01	Implement existing Collier County LDC requirements for site plan review procedures that includes consideration of water quality impacts both on and off-site, and <b>review the LDC language</b> for potential enhancements reflecting requirements contained in the NPDES Construction GP.	1. Review this BMP and relevant portions of the LDC with Engineering Review staff responsible for plan review and pre-construction activities.	1. May 2003 / Apr. 2004	Engineering Services Department & Stormwater Management
			2. Number of County inter-department meetings for review held.	2. May 2003 / Apr. 2008	
			3. List of proposed enhancements to LDC.	3. Jan. 2005 / Apr. 2008	
			4. Enhance LDC language where needed.	4. Jan. 2005 / Apr. 2008	

**A16 CITY OF NAPLES MS4 FORMS**

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> 1. Public Education and Outreach | <input type="checkbox"/> 3. Illicit Discharge Detection/Elimination     | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input type="checkbox"/> 2. Public Involvement/Participation         | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	Description of BMP	Measurable Goal(s)	Schedule for Implementation/Completion	Responsible Party/Department
1a	01	Household Hazardous Waste Program The City of Naples offers residents a way to properly dispose of hazardous waste generated by household use without charge. The City advertises the program in a variety of ways.	1. Government Channel 12 and local TV	1. Existing Program	City of Naples Public Works Dept./ Utilities Division
			2. Garbage Gram flyer mailed to residents	2. Existing Program	
			3. Paid Newspaper Ad	3. Existing Program	
			4. Paid Radio Spots	4. Existing Program	
1a	02	Stormwater Management System Education and Outreach regarding permitting requirements, system protection measures and maint. Inform the general public including business groups, neighborhood associations, schools, clubs and interested parties about stormwater issues.	1. City Govt Channel 12 Ad and local TV	1. Existing Program	Development Services / Engineering
			2. City Council Meetings aired on Ch-12	2. Existing Program	
			3. Neighborhood Association Meetings	3. Existing Program	
			4. Yearly Newsletter	4. Existing Program	
1a	03	Yard Waste Collection & Composting Program The City of Naples provides for scheduled pick-up of yard waste generated by residents and businesses. Composted material is stored at Riverside Circle and is available at no charge.	1. Government Channel 12 and local TV	1. Existing Program	City of Naples Public Works Dept./ Utilities Division
			2. Radio Spots	2. Existing Program	
			3. Flyer mailed to residents	3. Existing Program	
			4. City's Web Site	4. Existing Program	
1a	04	Stormwater Management / NPDES Website Provide Stormwater program information page and links to state and links on the City's existing website.	1. Provide a Web page on the City's site	1. Jan. 2004 / Feb. 2004	Information Services & Development Services / Engineering
			2. Update Web page	2. Feb. 2004 / June 2008	
			3.	3.	
			4.	4.	
			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	

APPENDIX A  
 PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM

SECTION A.I. MINIMUM CONTROL MEASURE (check only one)

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> 1. Public Education and Outreach               | <input type="checkbox"/> 3. Illicit Discharge Detection/Elimination     | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input checked="" type="checkbox"/> 2. Public Involvement/Participation | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping             |

SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form

Element ID	BMP Number	A Description of BMP	B Measurable Goals	C Schedule for Implementation/Completion	D Responsible Entity/Department
2a	01	Coastal Clean-up Program The City of Naples offers residents/volunteers an opportunity to participate in partnership with Collier County in the International Coastal clean-up event held in over 900 Florida locations.	1. Number of sponsor groups	1. County's Existing Program	Collier County Solid Waste Dept and Keep Collier Beautiful
			2. Number of locations per event	2. County's Existing Program	
			3. Number of participants per event	3. County's Existing Program	
			4. Amount and type of trash collected	4. County's Existing Program	
2a	02	Bay Days / Great American Clean-up City of Naples residents/volunteers participate with Collier County in their annual event to pick up trash and debris. This program is similar to the Coastal Clean up event.	1. Number of sponsor groups	1. County's Existing Program	Collier County Solid Waste Dept and Keep Collier Beautiful
			2. Number of locations per event	2. County's Existing Program	
			3. Number of participants per event	3. County's Existing Program	
			4. Amount and type of trash collected	4. County's Existing Program	
2a	03	Florida Yards and Neighborhood Program This program is designed to educate residents interested in using landscape techniques that promote less use of pesticide, fertilizer and irrigation	1. Sponsor Group-University of FL.	1. Presentations underway	Natural Resources & Development Services
			2. Presentations to Neighborhood Assoc.	2. January 2003 / June 2004	
			3. City Sponsored Site for demonstration	3. April 2004 / June 2004	
			4. City's Web Site	4. April 2004 / June 2004	
---	---		1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
---	---		1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	

APPENDIX A  
 PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM

SECTION A.I. MINIMUM CONTROL MEASURE (check only one)

1. Public Education and Outreach     
  3. Illicit Discharge Detection/Elimination     
  5. Post-construction Stormwater Management (optional)  
 2. Public Involvement/Participation     
  4. Construction Site Stormwater Runoff Control     
  6. Pollution Prevention/Good Housekeeping

SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified in Section A.I. Of This Form

BMP ID	BMP Number	Description of BMP	Measurable Goal(s)	Schedule for Implementation/Completion	Responsible Entity/Department
3a	01	Develop a stormwater system map showing outfall locations, names and locations of all surface water of the state receiving discharges.	1. Establish a map development program. 2. Research methods of data collection. 3. Updates of changes to map inventory. 4. Continue to monitor outfalls	1. Jan. 2004 / March 2004 2. March 2004 / May 2004 3. June 2004 / June 2008 4. June 2004 / June 2008	Development Services and Engineering
3b	01	Enforcement of existing City of Naples ordinances regarding illicit discharges into the storm sewer system.	1. Number of reported violations (yr). 2. Number of fines levied (yr). 3. Number of corrected violations (yr). 4.	1. Jan. 2004 / Jan. 2005 2. Jan. 2004 / Jan. 2005 3. Jan. 2004 / Jan. 2005 4.	Development Services and Engineering and Code Enforcement
3b	02	Review City ordinances and Comprehensive Development Code (CDC) for adequacy.	1. Review city ordinances 2. Review the City's CDC 3. 4.	1. Oct. 2003 / Nov. 2003 2. Oct. 2003 / Nov. 2003 3. 4.	Development Services and Engineering and Code Enforcement
3c	01	Plan development to detect and eliminate non stormwater discharges and dumping through testing.	1. Implement testing program 2. 3. 4.	1. Jan. 2004 / 2. 3. 4.	Development Services and Engineering and <u>Natural Resources</u>
3c	02	<u>Pollution Control Investigation Program - Coordinate program including investigation, logging and referral of complaints to other agencies when necessary.</u>	1. Promote via govt. channel and web site 2. No. and type of complaints. 3. Number of fines levied. 4.	1. Jan. 2004 / Jan. 2005 2. Jan. 2004 / Jan. 2005 3. Jan. 2004 / Jan. 2005 4.	Development Services and Engineering and Natural Resources

**APPENDIX A  
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

**SECTION A.I. MINIMUM CONTROL MEASURE (check only one)**

1. Public Education and Outreach     
  3. Illicit Discharge Detection/Elimination     
  5. Post-construction Stormwater Management (optional)  
 2. Public Involvement/Participation     
  4. Construction Site Stormwater Runoff Control     
  6. Pollution Prevention/Good Housekeeping

**SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form**

Element ID	BMP Number	Description of BMP	Measurable Goal(s)	Schedule for Implementation/Completion	Responsible Party/Department
3d	03	Stormwater Management / NPDES Website-	1. Develop Website	1. Jan. 2004 / Feb. 2004	Development Services and Engineering and Information Services
			2. Update Website with Haz. Mat. Links	2. Aug. 2003 / October 2003	
			3. Local govt channel	3. Aug. 2003 / October 2003	
			4.	4.	
3d	04	Employee Training Program Routine training program for City staff to learn about storage, use and disposal of hazardous materials Include residents and private sector	1. Training manuals provided by Risk Man.	1. Jan. 2004 / Feb. 2004	Risk Management
			2. and number of training sessions.	2. Jan. 2004 / Jan. 2005	
			3. Percent of staff receiving training.	3. Jan. 2004 / Jan. 2005	
			4.	4.	
			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	
			1.	1.	
			2.	2.	
			3.	3.	
			4.	4.	

**A17 GROWTH MANAGEMENT PLAN DRAINAGE SUB-ELEMENT**

COLLIER COUNTY  
GROWTH MANAGEMENT PLAN

PUBLIC FACILITIES ELEMENT  
Drainage Sub-Element

Prepared for  
COLLIER COUNTY BOARD OF COUNTY COMMISSIONERS  
October, 1997

AMENDMENTS TO COLLIER COUNTY GROWTH MANAGEMENT PLAN  
PUBLIC FACILITIES ELEMENT  
DRAINAGE SUB-ELEMENT

<u>Symbol</u>	<u>Date Amended</u>	<u>Ordinance No.</u>
**	May 9, 2000	Ordinance No. 2000-25
***	May 9, 2000	Ordinance No. 2000-26
(l)	May 9, 2000	Ordinance No. 2000-27

\*\* Ordinance No. 2000-25, rescinded and repealed in its entirety Collier County Ordinance No. 99-63, which had the effect of rescinding certain EAR-based objectives and policies at issue in Administration Commission Case No. ACC-99-02 (DOAH Case No. 98-0324GM).

\*\*\* Ordinance No. 2000-26, amended Ordinance No. 89-05, as amended, the Collier County Growth Management Plan, having the effect of rescinding certain EAR-based objectives and policies at issue in Administration Commission Case No. ACC-99-02 (DOAH Case No. 98-0324GM), more specifically portions of the Intergovernmental Coordination Element (Ord. No. 98-56), Natural Groundwater Aquifer Recharge Element (Ord. No. 97-59) and Drainage (Ord. No. 97-61) sub-elements of the Public Facilities Element, Housing Element (Ord. No. 97-63), Golden Gate Area Master Plan (Ord. No. 97-64), Conservation and Coastal Management Element (Ord. No. 97-66), and the Future Land Use Element and Future Land Use Map (Ord. No. 97-67); and re-adopts Policy 2.2.3 of the Golden Gate Area Master Plan.

\* Indicates adopted portions

Note: the support document will be updated as current information becomes available.

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**\*INDICATES ADOPTED PORTIONS**

## **V. GOALS, OBJECTIVES AND POLICIES**

**GOAL 1: PROVIDE DRAINAGE AND FLOOD PROTECTION FOR EXISTING AND FUTURE DEVELOPMENT, MINIMIZE THE DEGRADATION OF QUALITY OF RECEIVING WATERS AND SURROUNDING NATURAL AREAS AND PROTECT THE FUNCTIONS OF NATURAL GROUNDWATER AQUIFER RECHARGE AREAS.**

### **OBJECTIVE 1.1:**

Via the Annual Update and Inventory Report on Public Facilities (AUIR) process, annually update the Drainage Atlas Maps and Channel/Structure Inventory components of the adopted Water Management Master Plan to verify the existing watershed basin boundaries within Collier County. Verify the design storm capacity of the drainage facilities within each basin, and determine the costs necessary to maintain the facility capacities to selected design storm standards for inclusion of needed programming of operational funds in the Annual County Budget and capital projects and basin studies in the Annual Capital Improvement Element Update and Amendment.

#### **Policy 1.1.1:**

Monitor adopted procedures that are in place to ensure that existing natural systems, existing developments, and proposed developments will receive beneficial consideration from proposed water management procedures and projects. Future updates and revisions shall reflect changed conditions in the new techniques.

#### **Policy 1.1.2:**

Outline how to implement procedures and projects to ensure that at the time a development permit is issued, adequate water management facility capacity is available or will be available when needed to serve the development.

#### **Policy 1.1.3:**

Continue to develop public drainage facilities to maintain the groundwater table as a source of recharge for the potable water aquifers and meet the water needs for agricultural and commercial operations and native vegetation.

#### **Policy 1.1.4:**

Continue on-going efforts to evaluate the feasibility of restoring surface water flow into historical flow-ways and utilizing them to help control discharge into the estuaries.

#### **Policy 1.1.5:**

Three (3) detailed basin studies are planned within the 5 year planning time frame as follows:

<b><u>Basin</u></b>	<b><u>Starting Date</u></b>	<b><u>Completion Date</u></b>
Gordon River Extension	FY 96/97	FY 98/99
Belle Meade	FY 98/99	FY 2000/2001
Immokalee	FY 2000/2001	FY 2002/2003

As the studies are completed, the results will be made available to the property owners located within the basin boundaries for their use in petitioning the Board of County

Commissioners to create a taxing/assessment unit to fund the proposed implementation of the studies recommendations.

**Policy 1.1.6:**

Initiate sub-basin studies on the Secondary Drainage System and portions of the basin within the Urban Area. The status of several of the critical sub-basin studies is as follows:

<u>Sub Basin</u>	<u>Starting Date</u>	<u>Completion Date</u>
• Lely Main/Branch/Manor	N/A	1985
• Harvey	FY 95/96	FY 96/97
• US-41 Outfall Swales	N/A	1986
• Implementation of these projects is currently underway.		

**OBJECTIVE 1.2:**

Maintain adopted drainage level of service standards for basins and sub-basins identified in the Water Management Master Plan.

**Policy 1.2.1:**

The following levels of service for drainage are hereby adopted for the purpose of issuing development permits:

- A. Future "private" developments - water quantity and quality standards as specified in Collier County Ordinances 74-50 and 90-10 and Land Development Code Ordinance 91-102 as amended.
- B. Existing "private" developments and existing or future public drainage facilities - those existing Levels of Service identified (by design storm return frequency event) by the completed Water Management Master Plan as follows:

**LEVELS OF SERVICE ATTAINED BY BASINS**

<u>BASIN</u>	<u>LEVEL OF SERVICE</u>
<b>MAIN GOLDEN GATE SYSTEM</b>	
Main Golden Gate Canal Basin	D
Cypress Canal Basin	D
Harvey Canal Basin	D
I-75 Canal Basin	D
Green Canal Basin	C
Airport Road Canal South Basin	D
Corkscrew Canal Basin	D
Orange Tree Canal Basin	D
951 Canal Central Basin	C
<b>DISTRICT NO. 6 SYSTEM</b>	
Rock Creek Basin	D
C-4 Canal Basin	C

Lely Main Canal Basin	D
Lely Canal Branch Basin	D
Lely Manor Canal Basin	D
Haldeman Creek Basin	D
Winter Park Outlet Basin	D
<b>COCOHATCHEE RIVER SYSTEM</b>	
Cocohatchee River Basin	D
Pine Ridge Canal Basin	C
Palm River Canal Basin	D
<b>COCOHATCHEE RIVER SYSTEM (continued)</b>	
West Branch Cocohatchee River Basin	C
East Branch Cocohatchee River Basin	D
Airport Road Canal North Basin	D
951 Canal North Basin	D
<b>GORDON RIVER EXTENSION</b>	
Gordon River Extension Basin	D
Goodlette-Frank Road Ditch Basin	D
<b>HENDERSON CREEK BASIN</b>	
Henderson Creek Basin	D
<b>FAKA-UNION SYSTEM</b>	
Faka-Union Canal Basin	D
Miller Canal Basin	D
Merritt Canal Basin	C
Prairie Canal Basin	C
<b>SOUTHERN COASTAL BASIN</b>	
US-41 Outfall Swale No. 1 Basin	D
US-41 Outfall Swale No. 2 Basin	D
Seminole Park Outlet Basin	C
<b>BARRON RIVER SYSTEM</b>	
Okaloacoochee Slough Basin	D
Barron River Canal North Basin	C
Urban Immokalee Basin	C
<b>MISCELLANEOUS INTERIOR WETLAND SYSTEMS</b>	
Corkscrew Slough Basin	D

**Policy 1.2.3:**

Enlarge the scope of the Water Management Master Plan to include recommendations for changing Levels of Service together with analysis of capital requirements.

**OBJECTIVE 1.3:**

Beginning with fiscal year 1996-97, a five year schedule of capital improvement needs for water management facilities will be maintained and updated annually in conformance with the review process for the Capital Improvement Element of this plan.

**Policy 1.3.1:**

Develop procedures to update water management facility demand and capacity information.

**Policy 1.3.2:**

Prepare periodic summaries of capacity and demand information for each water management facility and service area.

**Policy 1.3.3:**

Water management capital improvement projects will be evaluated and ranked according to the priorities stated in the Capital Improvement Element of this plan.

**Policy 1.3.4:**

Major emphasis shall be given to improving existing drainage facilities in and around urban and estates designated areas (on the adopted Future Land Use Map) to maintain their use.

**OBJECTIVE 1.4:**

Beginning with fiscal year 1996-97, develop policies and programs to correct existing deficiencies and provide for future facility needs for those projects which have been outlined in the adopted Water Management Master Plan and any future individual basin studies.

**Policy 1.4.1:**

Water management projects shall be undertaken in accordance with the schedule provided in the Capital Improvements Element of this plan. These projects shall be undertaken in coordination with the Big Cypress Basin/South Florida Water Management District 5 Year Plan.

**Policy 1.4.2:**

Correct existing deficiencies and provide for future facility needs through the formulation and implementation of annual work programs. Encourage innovative funding sources including utilization of special taxing or assessment districts.

**Policy 1.4.3:**

Develop a public awareness program to inform the governmental leadership and general public of the need to utilize total watershed management concepts within the existing drainage systems and the environmental enhancements that will result from their implementation.

**OBJECTIVE 1.5:**

Continue to regulate land use and development to protect the functions of natural drainage features and natural groundwater aquifer recharge areas through the adopted Land Development Code (Ordinance 91-102 as amended).

**Policy 1.5.1:**

Annually review all appropriate Water Management Ordinances and regulations to determine their effectiveness in protecting the functions of the natural drainage features and natural groundwater aquifer recharge areas.

**Policy 1.5.2:**

Develop any appropriate new Ordinances and regulations necessary to ensure protection of the functions of natural drainage features and natural groundwater aquifer recharge areas.

**(I) OBJECTIVE 1.6:**

The functions of natural drainage features shall be protected through the application of standards that address the quality and quantity of discharge from stormwater management systems. This objective is made measurable through the following policies:

**(I) Policy 1.6.1**

Projects shall be designed and operated so that off-site discharges will meet State water quality standards, as set forth in Chapter 17-302, F.A.C., as it existed on August 31, 1999.

**(I) Policy 1.6.2**

Retention and detention requirements shall be the same as those provided in the South Florida Water Management District's Basis of Review, Section 5.2, as it existed on August 31, 1999.

**(I) Policy 1.6.3**

Allowable off-site discharge rates shall be computed using a storm event of 3 day duration and 25 year return frequency. The allowable off-site discharge rates are as follows:

- |   |               |
|---|---------------|
| a. Airport Road North Sub-Basin<br>(North of Vanderbilt Beach Road) | 0.04 cfs/acre |
| b. Airport Road South Sub-basin<br>(South of Vanderbilt Beach Road) | 0.06 cfs/acre |
| c. Cocohatchee Canal Basin  | 0.04 cfs/acre |
| d. Lely Canal Basin   | 0.06 cfs/acre |
| e. All other areas  | 0.15 cfs/acre |

In special cases, projects may be exempted by the County from these allowable off-site discharge rates providing any of the following applies:

1. The project is exempt from allowable off-site discharge limitations pursuant to Section 40E-400.315, FAC.
2. The project is part of an existing SFWMD permit which allows discharge rates different than those listed above.
3. It can be documented that the project currently discharges off-site at a rate higher than those listed above. The documentation shall be an engineering study prepared by a registered professional engineer, which utilizes the applicable criteria in the "SFWMD Basis of Review for Environmental Resource Permit Applications". The study shall be subject to review and approval by the County and SFWMD staff. The study shall include the following site specific information:
  - a. Topography
  - b. Soil types and soil storage volume
  - c. Vegetation types
  - d. Antecedent conditions
  - e. Design rainfall hydrographic
  - f. Depression storage

- g. Receiving water hydrograph
- h. Other relevant hydrologic and hydraulic data.

Using the above information, a hydrologic and hydraulic model which demonstrates the higher off-site discharge rate shall be developed.

**A18 ORDINANCE #2001-27 MAXIMUM OFFSITE DISCHARGE STANDARDS FOR HARVEY  
AND WIGGINS BAY BASINS**



ORDINANCE NO. 2001 - 27

AN ORDINANCE OF COLLIER COUNTY, FLORIDA, AMENDING ORDINANCE NO. 74-50, AS AMENDED, TO ADD MAXIMUM OFF-SITE DISCHARGE STANDARDS APPLICABLE TO THE HARVEY BASIN AND THE WIGGINS BAY BASIN; ALSO ADDING A NEW PROVISION (7.H) TO AUTHORIZE CORRECTION OF PROBLEMATIC SURFACE WATER RUN-OFF FROM SINGLE-FAMILY RESIDENTIAL LOTS CAUSED BY ELEVATING THE LOT SUBSEQUENT TO CONSTRUCTION OF THE SINGLE FAMILY RESIDENCE; PROVIDING FOR INCLUSION INTO THE CODE OF LAWS AND ORDINANCES; PROVIDING FOR CONFLICT AND SEVERABILITY; PROVIDING AN EFFECTIVE DATE.

**WHEREAS**, Ordinance No. 74-50, as amended by Ordinance No. 90-10, contains "Local Design Criteria" that specifies Allowable Post-Development Discharge Formulas for Collier County Canals, which formulas limit the allowable maximum off-site discharge into canals; and

**WHEREAS**, a study prepared by Johnson Engineering, Inc., dated February 1997, recommends that the off-site discharge within the Harvey Basin be limited by formula; and

**WHEREAS**, a study prepared by Agnoli, Barber and Brundage, Inc., dated April 1997, recommends that the off-site discharge within the Wiggins Pass Basin be limited by formula; and

**WHEREAS**, the maximum off-site discharge limitation formulas as indicated by the above referenced two studies have not been incorporated into Ordinance No. 74-50, as amended by Ordinance No. 90-10; and

**WHEREAS**, Staff has recommended that discharge limitations applicable to the Harvey Basin and the Wiggins Pass Basin be incorporated into Ordinance No. 74-50, as amended by Ordinance No. 90-10; and

**WHEREAS**, filling, grading or otherwise raising the elevation of single-family residence lots subsequent to initial construction of the residence seldom requires a permit from Collier County; and

**WHEREAS**, from time-to-time a single-family residence lot is elevated to an extent that the rise in elevation causes problematic additional surface water to flow off of the lot onto land owned by another; and

**WHEREAS**, no existing ordinance provision authorizes Staff to mandate correction of such additional surface water flows; and

**WHEREAS**, Staff proposes that a new provision be added to this Ordinance to grant Staff authority to have such situations corrected provided the lot elevating activities occur subsequent to the effective

2001 JUN 23 PM 3:30  
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date of this Ordinance and occur subsequent to the initial construction of the respective single-family residence; and

**WHEREAS**, the Board concurs with Staff's recommendations.

**NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF COLLIER COUNTY, FLORIDA,** that:

**SECTION ONE.** Paragraph 7. and 7.A of Article II, Section 2.01 of Ordinance No. 74-50, as amended by Ordinance No. 90-10, is hereby amended to read as follows:

"7. In accordance with the provisions of Chapter 40E-4, Florida Administrative Code, Section 40E-4.091(1)(a) and the "Basis of Review for ~~Surface Water~~ Environmental Resource Permit Applications within the South Florida Water Management District—~~April, 1987~~ Section 3.2 August, 2000" Section 6.0, as those two documents may be amended from time to time, the following local design criteria shall be used in Collier County:

A. Section ~~3.2.1.2~~ 6.2: Discharge Rate – Offsite discharge contributed by a development is limited to amounts which will not cause adverse off-site impacts. These amounts may be determined by: (most restrictive applies)

- a) Historic ~~pre-development~~ discharges rates;
- b) ~~Amounts~~ Rates determined in previous SFWMD permit actions;
- c) ~~Amounts~~ Rates specified in SFWMD criteria (Basis of Review Appendix 2):
- d) ~~Amounts~~ Rates based on system capacity for selected County primary outfall canals, unless special engineering studies are provided by a Registered Professional Engineer, shall be as follows:

**ALLOWABLE POST-DEVELOPMENT DISCHARGE FORMULAS FOR COLLIER COUNTY CANALS**

CANAL	ALLOWABLE RUNOFF	DESIGN FREQ./DUR.
AIRPORT ROAD NORTH SUBBASIN (North of Vanderbilt Beach Rd.)	25.6 CSM (0.04 cfs/acre)	25 year/ 3 day
AIRPORT ROAD SOUTH SUBBASIN	38.4 CSM (0.06 cfs/acre)	25 year / 3 day

(South of Vanderbilt  
Beach Rd.)

COCOHATCHEE 25.6 CSM (0.04 cfs/acre) 25 year/ 3 day  
CANAL BASIN

LELY CANAL 38.4 CSM (0.06 cfs/acre) 25 year / 3 day  
BASIN

HARVEY BASIN 35.2 CSM (0.055 cfs/acre) 25 year / 3 day

WIGGINS PASS 83.2 CSM (0.13 cfs/acre) 25 year / 3 day  
BASIN

- e. In all other areas of the County off-site discharge shall not be in excess of 0.15 cfs/acre.

Variations to the above requirement may be allowed with County staff approval based upon special engineering studies prepared by a Registered Professional Engineer. Unless otherwise specified by previous SFWMD permits or SFWMD criteria, a stormwater event of a 3 day duration and 25 year return frequency shall be used in computing off-site discharges. Allowable discharges will be designated by SFWMD on a case by case basis upon request.

**SECTION TWO.** A new Paragraph 7. H is added to Article II, Section 2.01 of Ordinance No. 74-50, as amended, to read as follows:

**H. Raising Elevation of Single Family Residence Lot**

**Subsequent to Construction of the Residence.** Subsequent to the construction of a single-family residence on the respective lot (parcel of land), it shall be a violation of this Ordinance to cause "additional surface water" to run onto any real property owned by another landowner by filling, grading or otherwise raising the elevation of the respective water source single family residence lot. This provision shall not apply to the extent that such filling, grading or other land elevating acts occur concurrently with the initial construction of the single-family residence. This provision shall not apply to the extent that such filling, grading or other land elevating acts are mandated by statute, ordinance, rule or regulation. In the context of this provision "additional surface water" shall be limited to surface water that exceeds the historic surface water flows from the respective single-family residence lot. If the historic surface water flows are exceeded because of such filling, grading or other actions, it shall be the responsibility of the owners of such water source lot to eliminate the flow of such additional surface water by construction of a depression, such as a swale, or by other appropriate measures. If such grading, filling or other lot elevating actions come to the attention of Staff prior to their completion, Staff may issue a stop work order if Staff reasonably believes that such filling, grading, or other lot elevating acts are likely to cause a violation of this provision, in which event the landowner of the water source lot shall either provide evidence that completion of the planned elevation of the lot will not cause a

violation of this provision, or shall be required to modify the planned lot elevating activities to eliminate the anticipated flow of additional surface water, by construction of a depression, such as a swale, or by some other appropriate measures. If the elevation of the lot is raised by such filling, grading or other lot elevating actions and it is proven that thereafter additional surface water flows off of the lot onto land owned by another landowner, it shall be a rebuttable presumption that such additional surface water run-off was caused by that elevation of the water source single-family residence lot. Anyone who claims to be "grand fathered" against application of this provision (by alleging that the respective grading, filling, or other lot elevating actions were completed prior to the effective date of this provision) shall have the burden of proving the allegation.

**SECTION THREE: CONFLICT AND SEVERABILITY.**

In the event this Ordinance conflicts with any other Ordinance of Collier County or other applicable law, the more restrictive shall apply. If any phrase or portion of this Ordinance is held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed a separate, distinct and independent provision and such holding shall not affect the validity of the remaining portions.

**SECTION FOUR. INCLUSION IN THE CODE OF LAWS AND ORDINANCES.**

This Ordinance shall be made a part of the Code of Laws and Ordinances of Collier County, Florida. The sections of the Ordinance may be renumbered or relettered to accomplish that result, and the word "Ordinance" may be changed to "Section", "Article", or any other appropriate word.

**SECTION FIVE. EFFECTIVE DATE.**

This Ordinance shall be effective upon receipt by the Florida Department of State.

**PASSED AND DULY ADOPTED** by the Board of County Commissioners of Collier County, Florida this 32nd day of May, 2001.

ATTEST:  
Dwight E. Brock, Clerk

BOARD OF COUNTY COMMISSIONERS  
COLLIER COUNTY, FLORIDA

By: Ellie Hoffmann  
Deputy Clerk

By: James D. Carter  
James D. Carter, Ph.D., Chairman

Attest as to Chairman's signature only.

Approved as to form and legal sufficiency

Thomas C. Palmer  
Thomas C. Palmer,  
Assistant County Attorney

This ordinance filed with the Secretary of State's Office the 29th day of May, 2001 and acknowledgement of that filing received this 4th day of June, 2001.  
By: Ellie Hoffmann  
Deputy Clerk

STATE OF FLORIDA)  
COUNTY OF COLLIER)

I, DWIGHT E. BROCK, Clerk of Courts in and for the Twentieth Judicial Circuit, Collier County, Florida, do hereby certify that the foregoing is a true copy of:

ORDINANCE NO. 2001-27

Which was adopted by the Board of County Commissioners the 22nd day of May, during Regular Session.

WITNESS my hand and the official seal of the Board of County Commissioners of Collier County, Florida, this 23rd day of May, 2001.

DWIGHT E. BROCK  
Clerk of Courts and Clerk  
Ex-officio to Board of  
County Commissioners



By: Ellie Hoffman,  
Deputy Clerk

DEPARTMENT OF STATE  
TALLAHASSEE, FLORIDA

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