



**SARASOTA COUNTY GOVERNMENT
SARASOTA, FLORIDA**

Natural Resources Department

1301 Cattlemen Road, Bldg. A
Sarasota, Florida 34232
Telephone (941) 378-6113
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June 28, 1999

Michael Mitchell, Environmental Scientist
U. S. Environmental Protection Agency, Region IV
Water Programs Enforcement Branch
61 Forsyth Street, SW
Atlanta, Georgia 30303

Subject: Sarasota County NPDES Major Municipal Separate Storm Sewer System (MS4)
Permit No. FLS000004

Dear Mr. Mitchell:

In compliance with Part V.C. of the subject NPDES MS4 permit, Sarasota County and co-permittees submit their annual reports for year four of the permit term covering January 1, 1998 through December 31, 1998. The annual reports for Sarasota County and the City of Sarasota were combined into one. The other co-permittees have supplied separate annual reports. One copy of each annual report has been submitted to the Florida Department of Environmental Protection. Section 5.8, Seasonal Pollutant Loading and Event Mean Concentrations, of the annual report is scheduled to be complete in a few weeks and will be forwarded at that time. Refer to the annual report, Appendix Q, for a copy of the purchase order and scope of services.

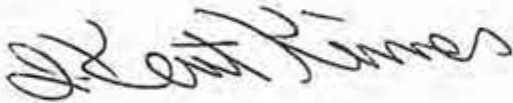
In accordance with Part VI.C., Sarasota County and the co-permittees jointly submit an edited version of the original permit as their renewal application for the next five year permit term. Additions are underlined and deletions are in strike-through type. The page numbers referenced within the renewal application are correct for the previous permit but may not be correct for the edited version. Amendments to the previous permit were added to the text in the renewal

Michael Mitchell, Environmental Scientist
Page Two

application, but the numbering is not consistent throughout the document. Permit modifications to the Storm Water Management Program elements required of the Florida Department of Transportation (FDOT) were explained in the current and past annual reports submitted by the FDOT.

Please contact Laura Lyn Ammeson, Environmental Supervisor, at (941) 378-6128 if you have any questions.

Sincerely,



J. Kent Kimes, P.E.
Manager
Pollution Control Division

Enclosures

cc: Kenneth Kwan, Compliance and Enforcement, U.S. Environmental Protection Agency,
 Region IV, Atlanta

- ✓ David R. Bullock, Deputy County Administrator
- ✓ Edward Goscicki, P.E., Executive Director, Environmental Services
- ✓ Gary S. Comp, General Manager, Natural Resources
- ✓ J.P. Marchand, P.E., General Manager, Planning
- ✓ David R. Sollenberger, City Manager, City of Sarasota
- ✓ Patrick S. Collins, P.E., City Engineer, City of Venice
- ✓ T.W. Hunt, P.G., Florida Department of Transportation, District One, Bartow
- ✓ Juan Florensa, Public Works Director, City of North Port
- ✓ Martin Black, Community Services Director, Town of Longboat Key

ASC99.266



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SARASOTA, FLORIDA**

Natural Resources Department

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Sarasota, Florida 34232
Telephone (941) 378-6113
FAX (941) 378-6067

June 28, 1999

Eric H. Livingston, Environmental Administrator
Florida Department of Environmental Protection
Division of Water Facilities
2600 Blair Stone Road, MS 3570
Tallahassee, Florida 32399-2400

Subject: Sarasota County NPDES Major Municipal Separate Storm Sewer System (MS4)
Permit No. FLS000004

Dear Mr. Livingston:

In compliance with Part V.C. of the subject NPDES MS4 permit, Sarasota County and co-permittees submit their annual reports for year four of the permit term covering January 1, 1998 through December 31, 1998. The annual reports for Sarasota County and the City of Sarasota were combined into one. The other co-permittees have supplied separate annual reports. One copy of each annual report was also sent to the U.S. Environmental Protection Agency. Section 5.8, Seasonal Pollutant Loading and Event Mean Concentrations, of the annual report is scheduled to be complete in a few weeks and will be forwarded at that time. Refer to the annual report, Appendix Q, for a copy of the purchase order and scope of services.

In accordance with Part VI.C., Sarasota County and the co-permittees jointly submit an edited version of the original permit as their renewal application for the next five year permit term. Additions are underlined and deletions are in strike-through type. The page numbers referenced within the renewal application are correct for the previous permit but may not be correct for the edited version. Amendments to the previous permit were added to the text in the renewal

Eric H. Livingston, Environmental Administrator
Page Two

application, but the numbering is not consistent throughout the document. Permit modifications to the Storm Water Management Program elements required of the Florida Department of Transportation (FDOT) were explained in the current and past annual reports submitted by the FDOT.

Please contact Laura Lyn Ammeson, Environmental Supervisor, at (941) 378-6128 if you have any questions.

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J. Kent Kimes, P.E.
Manager
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✓ Juan Florensa, Public Works Director, City of North Port
✓ Martin Black, Community Services Director, Town of Longboat Key

ASC99.265

SARASOTA COUNTY GOVERNMENT
Environmental Services Business Center

Interoffice Memorandum

To: David R. Bullock, Deputy County Administrator

Through: Edward Goscicki, P.E., Executive Director, Environmental Services 

Through:  Gary S. Comp, General Manager, Natural Resources

From:  J. Kent Kimes, P.E., Manager, Pollution Control Division

Subject: **Sarasota County NPDES Municipal Separate Storm Sewer System (MS4)
Permit: 1998 Annual Report**

Date: June 25, 1999

The accompanying report satisfies the requirement of Part V.C. of the NPDES MS4 Permit No. FL.S000004 to submit an annual report to the U.S. Environmental Protection Agency (EPA) and forward a copy to the Florida Department of Environmental Protection (DEP). The report describes the many activities performed throughout the calendar year 1998 by Sarasota County and the City of Sarasota. The majority of the activities were completed by Drainage Operations, Stormwater Environmental Utilities, and Pollution Control. Other participants included the Cooperative Extension Service, Solid Waste, Hazardous Waste, Transit, the Fire Department, Fleet Management, and the City Public Works Department. The various parts of the report were compiled and edited by the Pollution Control Division.

The permit requires certification of the report by an officer of the submitting entity. The signatory certifies that qualified personnel gathered and evaluated the information submitted. Please review and sign the Report Certification pages marked for your signature.

Section 5.8, Seasonal Pollutant Loading and Event Mean Concentrations, of the annual report is scheduled to be completed in a few weeks by Camp Dresser and McKee Inc. The data will be forwarded to EPA and DEP at that time. Three elements were deemed not in compliance with the permit requirements for 1998. The wet season water quality and biological samples, and sediment core samples were not collected. We expect to be in full compliance of all requirements in 1999.

In accordance with the permit requirements, Sarasota County and co-permittees must jointly reapply for the next five year permit term. Representatives from all agencies have held numerous meetings to discuss their changes to the permit elements. Attached you will find an edited version of the original permit that will serve as the renewal application. All additions are underlined and deletions are in strike-through type. Upon receipt of the renewal document, EPA will proceed to prepare a draft permit. Sarasota County, the co-permittees, and DEP will be allowed to comment on the draft version.

Please contact Laura Lyn Ammeson, Environmental Supervisor, at (941) 378-6128 if you have any questions.

Attachments

**NPDES MUNICIPAL SEPARATE
STORM SEWER SYSTEM PERMIT NO. FLS000004**

**ANNUAL REPORT
FOR
YEAR FOUR**

**THE PERIOD COVERING:
1/1/98 TO 12/31/98**

**SUBMITTED BY:
Sarasota County and City of Sarasota**

**CO - PERMITTEES:
Venice
North Port
Longboat Key
FDOT District 1**

Annual Report - Report Certification

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 gathered and evaluated the information submitted. Based on 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.

David R. Bullock
David R. Bullock, Deputy County Administrator
Sarasota County

6-28-99

Dated

Annual Report - Executive Summary

As required by the Water Quality Act of 1987, Sarasota County, including the Cities of Sarasota, Venice, North Port, Longboat Key, and the Florida Department of Transportation were issued a National Pollutant Discharge Elimination System (NPDES) Permit (No. FLS000004) to operate their Municipal Separate Storm Sewer Systems (MS4s). The effective date of the permit is January 1, 1995. The Co-permittees agreed to independently administer the permit requirements for their respective jurisdictions through an interlocal agreement signed during the Part 1 application process. A subsequent interlocal agreement, dated July 28, 1998, delegated control to Sarasota County Government for all storm water management activities within the limits of the City of Sarasota and unincorporated Sarasota County. Refer to Appendix A for the interlocal agreement.

The Storm Water Management Program (SWMP or the Program) contained in the permit requires continuation of existing programs and development of new or expanded programs to reduce to the maximum extent practicable (MEP) the pollutant loading to the MS4. Elements contained in the Program will be implemented by the Co-permittees as required during the five-year term of the permit.

This document is the result of the combined efforts of Sarasota County and the City of Sarasota departments to produce the Annual Report for Year Four. Separate reports are provided by the other municipal jurisdictions.

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Q	Seasonal Loading and Event Mean Concentrations

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Section 1 - List of Contacts for Each Co-Permittee

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City of North Port

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North Port, Florida 34285
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Annual Report

Section 2 - Stormwater Management Program Evaluation

2.1 Objective of Program

The objective of the Program is to improve the quality of surface waters in Sarasota County by improving the quality of storm water runoff, through implementation of the many elements of the permit, which was developed by Sarasota County, the City of Sarasota, the co-permittees, the Florida Department of Environmental Protection (FDEP), and the Environmental Protection Agency (EPA).

Annual Report

Section 2 - Stormwater Management Program Evaluation

2.2 Major Findings

There continued to be a real need for the comprehensive pollution control activities listed in the permit. Although most of the activities were pre-existing, only through the permit have they come to be viewed as a single program. All of the elements will be required to achieve the desired result of reducing pollutant loading in receiving waters.

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Section 2 - Stormwater Management Program Evaluation

2.3 Major Accomplishments

In 1998 Sarasota County continued a Capital Improvement Program that charged property owners for improvements in the designated basins. Previously, user fees were collected to pay for only customer service, planning, and maintenance activities. The Capital Improvement Program assessments, implemented in 1995, were collected and used to construct flood-control and water-quality projects identified in adopted County Basin Master Plans. Capital improvements were completed in several basins during 1998. Additionally, five new Basin Master Plans were completed in 1998.

Improvements in surface water quality are difficult to quantify without a tremendous allocation of resources, and a closely focused objective. Nevertheless, there have undoubtedly been some significant localized improvements.

- Wastewater utilities made great improvements in those specific collections systems most prone to overflow.
- Municipal agencies improved outdated housekeeping, storage, and disposal practices.
- The well-maintained streets and storm water systems required a substantial allocation of money, manpower and coordination. The adverse (El Nino) weather experienced in 1998 did not undermine this extensive maintenance program which was essential to improving storm water quality.

- Proper disposal was made available to citizens and small businesses in Sarasota County and a tremendous amount of waste was redirected from potentially illicit disposal methods.
- The municipal use of pesticides was reduced again.
- Many minor illicit discharges were alleviated through voluntary compliance with County ordinances; others required enforcement. A significant illicit discharge from a domestic wastewater facility was stopped in 1998.

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Section 2 - Stormwater Management Program Evaluation

2.4 Overall Program Strengths and Weaknesses

The program's strength is in its comprehensive approach to controlling storm water runoff. This control was maintained through education, regulation, maintenance, basin master planning, and capital improvements. We are constantly monitoring the various aspects of our Program and are receptive to citizen comments. We strive to maintain a consistent and equitable Program.

Since implementation of the Program, Sarasota County has developed a much better inventory and understanding of the drainage systems within the City and County. Having a better understanding of the number and types of structures to be managed has improved our ability to identify, schedule, and budget maintenance activities that ensure system performance and improve water quality. Coordination and cooperation between County and City departments continued to improve through year four.

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Section 2 - Stormwater Management Program Evaluation

2.5 Future Direction of Program

The County, the City, and the Co-permittees will continue to pursue implementation of the activities identified in the Program. Should best professional judgment dictate changing a Program activity, the Co-permittees will identify the necessary changes or modifications pursuant to Part VII of the Permit and will submit a recommendation to the EPA for a modification to the Permit. During 1998 no major permit modifications were identified. However, as part of the permit renewal process, the permittees have proposed some minor modifications to the original permit. These modifications were incorporated into an edited version of the Part II narrative (Storm Water Pollution Prevention and Management Programs) and on the edited tables from Part III of the permit (Schedules for Implementation and Compliance). For the most part, the permit elements and activities remain as originally written. Language was changed in cases where activities or practices were to be "developed" or "implemented" to reflect the continuation of the activity or practice.

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Section 3 - Summary Table for SWMP Activities

Refer to the Summary Table for a list of program elements, designated permittee, requirement, activity schedule, and comments.

Annual Report
Section 3 - Summary Table for SWMP Activities

PROGRAM ELEMENT	PERMITTEE	REQUIREMENT	ACTIVITY SCHEDULE			COMMENTS
			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
1: Operation and Maintenance of Structural Controls and Storm Water Collection System	Sarasota County & City of Sarasota	Perform inspections and maintenance of structural controls. Maintain an internal record keeping system to track inspections and maintenance activities performed during the permit. Conduct an annual assessment of the effectiveness of inspection and maintenance schedule and provide a summary of the assessment in each annual report.	Inspect and keep records.	Yes	Structural controls were inspected and maintained, including mowing, debris removal, sediment removal, and erosion repair. Records were kept on computer.	Refer to the narrative section of this report for the assessment. Refer to Appendix B for inventories and schedules.
	Sarasota County & City of Sarasota	Identify and inventory each privately-owned and maintained storm water management facility which discharges into the MS4. Within 12 months of the effective date of the permit (1-1-96).	Update inventory.	Yes	The inventory continued to be updated in 1998.	Private storm water systems were defined as those subdivisions and commercial properties receiving assessment credits.
	Sarasota County & City of Sarasota	Develop a revolving inspection program for privately-owned and maintained stormwater treatment systems which discharge into the MS4 to determine the compliance with local permit conditions and/or local ordinances. Program developed shall include a description of the enforcement provisions for non-compliance. Following development, include a summary of the inspection program and schedule in the subsequent annual report for incorporation into the permit. Within 12 months of the effective date of the permit (1-1-96).	Completed in previous years.	Yes	The inspection program was summarized in the annual report for year two. It continued during 1998.	During 1999, an evaluation will be made to determine if it would be effective to use of the SWFWMD recertification results to supplement this in-house effort.
	Sarasota County & City of Sarasota	Implement revolving inspection program for privately-owned and maintained storm water systems which discharge into the MS4 within 24 months of the effective date of the permit (1-1-97).	Inspect.	Yes	32 private storm water systems were inspected in 1998.	Each pond was on a 18-24 months inspection rotation.
	Sarasota County	Complete the Florida Water and Pollution Control Operators Association (FW&PCOA) course or equivalent.	Train 5 employees per year.	Yes	Two Pollution Control Employees received Erosion and Sediment Control training. Several employees of Drainage Operations received FW&PCOA training and received B & C certificates. Two employees attended FDEP train the trainer certification.	
	City of Sarasota	Complete the Florida Water and Pollution Control Operators Association (FW&PCOA) course or equivalent.	Train 1 employee per permit.	Yes	The City inspector was FW&PCOA trained in 1995.	
2: Control of Discharges from Areas of New Development and Significant Redevelopment.	Sarasota County & City of Sarasota	Adopt as local ordinances storm water quality treatment criteria consistent with, but not necessarily similar to, the State of Florida Storm Water Treatment Regulations (FAC 40D-4, 40D-40, 62-25). Prior to the end of the permit term (12-31-99).	Completed in previous years.	Yes	The Pollution Control Code was amended in 1998.	County Ordinance No. 98-060 amended Ordinance No. 96-020, and has jurisdiction is throughout the entire Sarasota County.
	Sarasota County & City of Sarasota	Continue on the current schedule to perform master basin studies on the major watersheds identified in Table 1 on page 4A-34 of Appendix A. Develop a course of action for each as they are completed. Include in each annual report a brief summary of each basin study completed during the permit year and resulting course of action. Effective date of permit (1-1-95).	Study & Summarize.	Yes	5 basin studies were completed during 1998, and were scheduled for adoption in 1999. Some coastal basins were studied too. 20 basin studies were completed to date. The resulting course of action is summarized in Appendix C.	

Annual Report
Section 3 - Summary Table for SWMP Activities

PROGRAM ELEMENT	PERMITTEE	REQUIREMENT	ACTIVITY SCHEDULE			COMMENTS
			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
2: Control of Discharges from Areas of New Development and Significant Redevelopment (continued)	Sarasota County	Evaluate land development practices to reduce the amount of impervious surfaces in future development. After completing the evaluation, include a summary of the resulting course of action in the subsequent annual report for incorporation into the permit. Within 36 months of the effective date of the permit (1-1-98).	Completed in previous years.	Yes	County Land Development Regulations include impervious surface concerns and were reported in the annual report for year one.	
	City of Sarasota	Evaluate land development practices to reduce the amount of impervious surfaces in future development. After completing the evaluation, include a summary of the resulting course of action in the subsequent annual report for incorporation into the permit. Within 36 months of the effective date of the permit (1-1-98).	Completed in previous years.	Yes	The City Comprehensive Plan was revised in 1998 and included language about reducing impervious surfaces. Revised Land Development regulations were being considered. Refer to Appendix D.	
	Sarasota County	Implement appropriate land development practices and incentives for the reduction of impervious surfaces. As determined by the evaluation - prior to the end of the permit term (12-31-99).	Implement LDRs.	Yes	Developers were encouraged to retain open space; storm water assessments were reduced by the inclusion of open space in designs.	
	City of Sarasota	Implement appropriate land development practices and incentives for the reduction of impervious surfaces. As determined by the evaluation - prior to the end of the permit term (12-31-99).	Implement LDRs.	Yes	The City Comprehensive Plan was revised in 1998 and included language about reducing impervious surfaces.	
3: Operation and Maintenance of Public Streets, Roads, and Highways	Sarasota County	Provide a description of the municipally-operated litter control programs for highways and streets within the jurisdictional area for incorporation into the permit. Provide in first annual report.	Completed in previous years.	Yes	The program reported in the annual report for year one continued during 1998.	
	City of Sarasota	Provide a description of the municipally-operated litter control programs for highways and streets within the jurisdictional area for incorporation into the permit. Provide in first annual report.	Completed in previous years.	Yes	The City continued the litter control programs reported in the annual report for year one, and continued to participate in Keep Sarasota Beautiful.	
	Sarasota County	Implement litter control programs for highways and streets within the jurisdictional area and properly dispose of collected material. Effective date of the permit (1-1-95).	Control litter.	Yes	Maintenance crews, Adopt-a-Road, Adopt-a-Pond, inmate labor, and Keep Sarasota Beautiful continued to control litter.	In 1998, 275 miles of road and 11 ponds were adopted.
	City of Sarasota	Implement litter control programs for highways and streets within the jurisdictional area and properly dispose of collected material. Effective date of the permit (1-1-95).	Control litter.	Yes	The City continued the litter control programs reported in the annual report for year one, and continued to participate in Keep Sarasota Beautiful.	
	Sarasota County	Implement street sweeping programs within the jurisdictional area and properly dispose of the collected material. Effective the date of the permit (1-1-95).	Sweep streets.	Yes	In-house and contractual sweeping maintained 5450 miles. Disposal was to the landfill.	442 miles of residential streets were swept twice each year and 468 miles of commercial streets were swept monthly. 8328 miles were swept.
	City of Sarasota	Implement street sweeping programs within the jurisdictional area and properly dispose of the collected material. Effective the date of the permit (1-1-95).	Sweep streets.	Yes	Three trucks swept streets 5 days per week and moved about 1400 tons of waste from roadways to landfill.	

Annual Report
Section 3 - Summary Table for SWMP Activities

PROGRAM ELEMENT	PERMITTEE	REQUIREMENT	ACTIVITY SCHEDULE			COMMENTS
			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
3: Operation and Maintenance of Public Streets, Roads, and Highways (continued)	Sarasota County & City of Sarasota	Provide the maintenance schedule for storm water structures (i.e. catch basins) and roadside ditches. Provide in first annual report.	Completed in previous years.	Yes	The schedule was reported in the annual report for year one. 84,102 man hours in 1998.	Canals were maintained on a 1-3 year rotation. Ponds monthly.
	Sarasota County & City of Sarasota	Perform scheduled maintenance on catch basins, grates, and other storm water structures and roadside ditches and properly dispose of accumulated sediments. Maintain an internal log documenting maintenance activities. Effective date of permit (1-1-95).	Maintain storm water systems.	Yes	The maintenance schedule has been followed. Appropriate disposal has continued. Refer to Appendix B.	
	Sarasota County	As described in Part II.3.A. on page 7 of the permit, develop practices to reduce polluted discharges to the MS4 from road repair, and all municipal equipment yards and maintenance shops that support road maintenance activities. After development, include a summary of the practices in the subsequent annual report for incorporation into the permit. Within 12 months of the effective date of the permit (1-1-96).	Completed in previous years.	Yes	The BMP practices reported in the annual report for year one continued during 1998.	
	City of Sarasota	As described in Part II.3.A. on page 7 of the permit, develop practices to reduce polluted discharges to the MS4 from road repair, and all municipal equipment yards and maintenance shops that support road maintenance activities. After development, include a summary of the practices in the subsequent annual report for incorporation into the permit. Within 12 months of the effective date of the permit (1-1-96).	Completed in previous years.	Yes	The Transportation Department continued following the manual of BMP practices reported in the annual report for year one.	
	Sarasota County	Implement developed practices to reduce to the MEP pollutants from road repair and municipal yards. Within 24 months of permit (1-1-97).	Implement BMPs.	Yes	The BMPs reported in the annual report for year one continued to be implemented in 1998.	
	City of Sarasota	Implement developed practices to reduce to the MEP pollutants from road repair and municipal yards. Within 24 months of permit (1-1-97).	Implement BMPs.	Yes	The BMPs reported in the annual report for year one continued to be implemented in 1998.	
4: Ensure Flood Control Projects Comply with State Storm Water Quality Requirements	Sarasota County & City of Sarasota	Develop a priority list and construction schedule for the retrofit projects recommended by the basin master studies completed to date. Within 12 months of permit (1-1-96).	Completed in previous years.	Yes	Several (capital improvement) construction projects for flood-control and water-quality were completed in 1998, as identified in adopted Basin Master Plans.	All flood control projects included elements to reduce sedimentation and pollutants. Several projects proved successful to reduce the number of flooded structures and streets.
	Sarasota County & City of Sarasota	Include a copy of the prioritized list and construction schedule in the annual report for incorporation into the permit. Provide updates to this list in future annual reports as additional master basin studies are completed. Within 12 months of permit (1-1-96).	Update list in annual report.	Yes	The project list and schedule were updated monthly. Refer to Appendix C.	Several projects were completed, including Phase II of the Celery Fields Regional Stormwater Facility.
5: Identification, Monitoring, and Control of Discharges from Municipal Waste Treatment, Storage, or Disposal Facilities Not Covered by a NPDES Storm Water Permit.	Sarasota County & City of Sarasota	Develop a program to evaluate, through inspections and monitoring, the municipally-operated solid waste transfer stations, maintenance and storage yards for waste transportation fleets, POTWs and sludge application and/or disposal sites. The goals of the evaluation program shall be to identify these facilities, determine the necessary control measures and procedures to be employed at each, and administer an appropriate implementation schedule. After developing the evaluation program, submit a program summary in subsequent annual report for incorporation into the permit. Within 30 months of the effective date of the permit (7-1-97).	Completed in previous years.	Yes	Inspection and monitoring of solid waste and POTW facilities continued. The program summary was included in the annual report for year three.	All sites were regulated by EPA, FDEP, and/or the County.

Annual Report
Section 3 - Summary Table for SWMP Activities

PROGRAM ELEMENT	PERMITTEE	REQUIREMENT	ACTIVITY SCHEDULE			COMMENTS
			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
5: Identification, Monitoring, and Control of Discharges from Municipal Waste Treatment, Storage, or Disposal Facilities Not Covered by a NPDES Storm Water Permit. (continued)	Sarasota County & City of Sarasota	Implement developed program to reduce pollutants in storm water discharges to the MEP and shall not cause or contribute to violations of State water quality standards of the receiving stream from these facilities. Within 36 months of permit (1-1-98).	Inspect.	Yes	Inspection and monitoring of solid waste and POTW facilities continued.	Pollution Control inspects POTW and solid waste facilities.
	Sarasota County & City of Sarasota	Provide the details, for the incorporation into the permit, of the specific public education programs designed to encourage the public to reduce their use of pesticides, herbicides and fertilizers. Provide in the first annual report.	Completed in previous years.	Yes	Details were reported in the annual report for year one.	Florida Yards and Neighborhoods. County Integrated Pest Management.
6: Control of Pollutants Related to Application of Pesticides, Herbicides, and Fertilizers.	Sarasota County & City of Sarasota	Implement the public education programs. Effective date of permit (1-1-95).	Educate.	Yes	Florida House, Florida Yards and Neighborhoods and seminars for landscape professionals continued in 1998.	
	Sarasota County & City of Sarasota	Evaluate current training requirements and certification procedures for employees who handle pesticides, herbicides and fertilizer. After completing the evaluation, include a summary of the results in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	Applicator certification continued to be required for employment. Certification is maintained through training courses and CEUs.	
	Sarasota County & City of Sarasota	Implement any revised procedures for the training and certification of these employees. As necessary - Within 36 months of the effective date of the permit (1-1-98).	Continue program from previous years.	Yes	The training program continued to use pesticide applicators as facilitators of training sessions, as well as requiring formal training.	
	Sarasota County & City of Sarasota	Require evidence of proper certification and licensing for all applicators contracted to apply pesticides, herbicides and fertilizers on municipal property. Effective date of the permit (1-1-95).	Continue program from previous years.	Yes	Contractors continued to be required to be certified in 1998.	
	Sarasota County & City of Sarasota	Develop a program with procedures to minimize the use of pesticides, herbicides, and fertilizers and to properly store and mix these products. The program developed should also consider planning assistance and promoting voluntary use of native Florida plantings and slow-release fertilizers. After development, include a summary of the procedures in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	The administrative directive reported in the annual report for year one continued to be in place.	Aquatic Plant Control reduced herbicide use in 1998. Weed control along curbs, sidewalks and fences was augmented by the use of a steam machine.
	Sarasota County & City of Sarasota	Employ the program procedures to minimize the use of pesticides, herbicides, and fertilizers and to properly store and mix these products. Within 36 months of the effective date of the permit (1-1-98).	Continue program from previous years.	Yes	The IPM Program addressed these issues. Biological and mechanical pest control minimized the use of pesticides.	

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			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
7a: Illicit Discharges and Improper Disposal. Inspections, ordinances, and enforcement measures.	Sarasota County & City of Sarasota	Complete the assessment of non-storm water discharges allowed to be discharged to the MS4 as detailed on page 9 of the permit. After completing the assessment, include a summary of the results in the subsequent annual report for incorporation into the permit. Within 18 months of the effective date of the permit (7-1-96).	Completed in previous years.	Yes	The list of 20 non-storm water discharges remained unchanged from the list in the annual report for year three.	
7a: Illicit Discharges and Improper Disposal. Inspections, ordinances, and enforcement measures (continued)	Sarasota County & City of Sarasota	Develop an inspection program to enforce ordinances which prohibit illicit connections and illegal dumping into the MS4. After development, include a summary of the inspection program in the subsequent annual report for incorporation into the permit. Within 30 months of the effective date of the permit (7-1-97).	Continue program from previous years.	Yes	The inspection and enforcement programs continued in 1998, in the same way as reported in previous annual reports.	Refer to G3 for Pollution Control's standard investigative procedures.
	Sarasota County & City of Sarasota	Implement an inspection program to enforce ordinances which prohibit illicit connections and illegal dumping into the MS4. Maintain an internal log documenting inspections and enforcement actions performed and provide a summary of these reports in each annual report. Within 36 months of the effective date of the permit (1-1-98).	Inspect and keep records.	Yes	Inspection, enforcement, and internal log recordkeeping was continued in 1998 in the same way as was reported in previous annual reports.	In 1998, Pollution Control investigated and resolved 235 cases of reported illicit discharges to the MS4. Hazardous Waste completed 76 such investigations. Refer to Appendix F for investigations logs.
	Sarasota County	Provide photocopies of signed adopted stormwater ordinances as identified in Table II.A.7.a.(3) on page 10 of the permit. Provide in first annual report.	Completed in previous years.	Yes	Ordinance 96-020 was amended by Ordinance 98-066 in 1998. The newly amended ordinance is in Appendix G.	
	City of Sarasota	Amend ordinances as identified in Table II.A.7.a.(4) on page 11 of the permit to reflect correct citation for "industrial activity" (40CFR 122.26(b)(14)). Include a copy of the amended ordinances in the subsequent annual report for incorporation into the permit. Within 12 months of the effective date of the permit (1-1-96).	Completed in previous years.	Yes	The City gave the County authority, via Resolution No. 93-685, to enforce County Ordinance No. 93-038 within the City's jurisdictional boundaries. The contents of County Ordinance No. 93-038 were included in County Ordinance No. 96-020, as amended.	
7b: Illicit Discharges and Improper Disposal. Field Screening.	Sarasota County & City of Sarasota	Conduct field screening of the MS4 for illicit discharges and improper disposal as shown in Table II.A.7.b. on page 12 of this permit. Collect inventory information on outfalls, and on portions of the MS4 not mapped and update a database on an ongoing basis. Maintain an internal log documenting the results of all field screening performed. At least 1/3 of Grid Areas Screened in Permit Years Three, Four and Five with Entire MS4 screened once every five years.	1/3 of grid areas screened in permit year four.	Yes	85 outfalls in the City of Sarasota, and 87 outfalls in unincorporated Sarasota County were screened in 1998. The internal log was updated.	Field inspections included photos and sampling as needed.
7c: Illicit Discharges and Improper Disposal. Investigation of Suspected Illicits and/or Improper Disposal.	Sarasota County & City of Sarasota	Develop standard investigative procedures to identify and terminate the sources of illicit connections or discharges to the MS4. After development, include a summary of the investigative procedures in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	Refer to Appendix E for standard investigative procedures.	
	Sarasota County & City of Sarasota	Implement standard investigative procedures to identify and terminate the sources of illicit connections or discharges to the MS4. Within 30 months of the effective date of the permit (7-1-97).	Continue program from previous years.	Yes	Standard investigative procedures continued to be used in 1998, during complaint investigation, high-risk facility inspections, and during outfall field screening.	

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			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
7d: Illicit Discharges and Improper Disposal. Spill Prevention and Response.	Sarasota County	Provide a copy of the applicable portions of Sarasota County's Hazardous Materials Emergency Plan which effectively mitigate potential pollutant discharges to surface waters. Provide in first annual report.	Completed in previous years.	Yes	A copy of the plan was included in the annual report for year one. The Fire Department responded to 634 events in 1998. Hazardous Waste assisted with 21 of those events.	
7d: Illicit Discharges and Improper Disposal. Spill Prevention and Response. (continued)	City of Sarasota	Adopt Sarasota County's Hazardous Materials Emergency Plan, FDOT's Emergency Operations Procedures, or a comparable plan and procedures which effectively mitigate potential pollutant discharges to surface waters. Within 12 months of the effective date of the permit (1-1-96).	Completed in previous years.	Yes	As reported in the annual report for year one, the City and County Fire Departments merged. Therefore Sarasota County's Hazardous Materials Emergency Plan applies within the City.	
7e: Illicit Discharges and Improper Disposal. Public Notification.	Sarasota County & City of Sarasota	Develop a program to promote, publicize, and facilitate public reporting of the presence of illicit discharges and improper disposal of materials to the MS4. After development, include a summary of the public programs in the subsequent annual report for incorporation into the permit. Within 30 months of the effective date of the permit (7-1-97).	Completed in previous years.	Yes	The program reported in previous annual reports was continued during 1998.	
	Sarasota County & City of Sarasota	Implement public reporting program. Within 36 months of the effective date of the permit (1-1-98).	Publicize illicit reporting.	Yes	Pollution Control distributed promotional materials with the 24-hour on-call phone number displayed. Presentations to schools continued.	
	Sarasota County & City of Sarasota	Maintain a citizen complaint log documenting all reports of illicit discharges and what actions were taken to investigate and resolve the problem. Include a summary of this log in each annual report. Within 36 months of the effective date of the permit (1-1-98).	Inspect and keep records.	Yes	In 1998, Pollution Control investigated and resolved 235 cases of reported illicit discharges to the MS4. Hazardous Waste completed 76 such investigations. The summary of the logs is in Appendix F.	
7f: Illicit Discharges and Improper Disposal. Oils, Toxics and Household Hazardous Waste Control	Sarasota County & City of Sarasota	Support and promote on a regular basis the six oil recycling site locations within Sarasota County and the two permanent collection centers for household hazardous waste materials. Continue Amnesty Days program. Document the total amount of household hazardous waste materials collected. Effective date of permit (1-1-95).	Collect wastes and keep records.	Yes	27,660 gallons of used oil and 440,969 pounds of household hazardous waste and CESQG waste were collected in 1998. All programs continued operation in 1998.	
	Sarasota County & City of Sarasota	Actively promote and support a voluntary stenciling program for all storm sewer inlets which discharge directly or indirectly into surface waters. Within 12 months of the effective date of the permit (1-1-96).	Stencil drains.	Yes	More than 350 storm drains were placarded in 1998.	Placards replaced stenciling because the placards were found to be more durable and easier to install.
7g: Illicit Discharges and Improper Disposal. Limitation of Sanitary Sewer Seepage.	Sarasota County	Develop procedures to limit the infiltration of sanitary sewer seepage into the MS4, in areas where wastewater infiltration is suspected. After development, include a summary of the procedures in the subsequent annual report for incorporation into the permit. Within 30 months of the effective date of the permit (7-1-97).	Completed in previous years.	Yes	Flushing of pipes, lift station telemetry, video of pipes, improved lift station maintenance, and SSES.	

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			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
	City of Sarasota	Develop procedures to limit the infiltration of sanitary sewer seepage into the MS4, in areas where wastewater infiltration is suspected. After development, include a summary of the procedures in the subsequent annual report for incorporation into the permit. Within 30 months of the effective date of the permit (7-1-97).	Completed in previous years.	Yes	Annual maintenance and capital upgrades. Infiltration and inflow control projects. Cleaning and televising (SSES) of collection system. Pilot project replacing leaking privately owned collection systems. Spill response procedures approved by Pollution Control.	
7g: Illicit Discharges and Improper Disposal. Limitation of Sanitary Sewer Seepage (continued)	Sarasota County	Implement developed procedures to limit the infiltration of sanitary sewer seepage into the MS4. Within 36 months of the effective date of the permit (1-1-98).	Continue program from previous years.	Yes	Procedures continued to be implemented in 1998.	
	City of Sarasota	Implement developed procedures to limit the infiltration of sanitary sewer seepage into the MS4. Within 36 months of the effective date of the permit (1-1-98).	Continue program from previous years.	Yes	Procedures continued to be implemented in 1998.	
	Sarasota County & City of Sarasota	Advise appropriate utility owner of violation if constituents common to wastewater contamination are discovered in the MS4 during dry weather field screening. Effective date of permit (1-1-95).	Continue program from previous years.	Yes	Pollution Control advised appropriate utilities of all reported discharges to the MS4. No sanitary sewer seepage was found during dry weather field screening.	
	Sarasota County & City of Sarasota	Identify areas served by septic tanks. Advise appropriate State Agency of violation if constituents common to wastewater contamination due to malfunctioning septic systems are discovered in the MS4 during dry weather field screening. Within 12 months of the effective date of the permit (1-1-96).	Continue program from previous years.	Yes	Pollution Control notified the Health Dept. of every reported septic system incident. No septic system seepage was found during dry weather field screening.	Areas served by septic systems were identified in the Preliminary Report on County Water and Sewer Service in Sarasota County by Post, Buckley, Schuh, & Jernigan (1994).
8a: Industrial and High Risk Runoff. Identification of Priorities and Procedures for Inspections.	Sarasota County & City of Sarasota	Develop an inventory of all existing high risk facilities discharging into the MS4. This inventory shall identify the outfall and surface waterbody into which each high risk facility drains. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	The inventory was updated in 1998.	
	Sarasota County & City of Sarasota	Based on historical information and available monitoring & screening data, prioritize the identified high risk facilities. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	The inventory was prioritized, as reported in previous annual reports.	
	Sarasota County & City of Sarasota	Develop procedures for inspecting high risk facilities and establish an inspection schedule. After development, include a summary of the procedures & inspection schedule in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	The inspection forms were included in the annual report for year three. Refer to Appendix H for the draft standard investigative procedures. Refer to Appendix I for the permitting manual.	
	Sarasota County & City of Sarasota	Begin inspections of identified high risk facilities. Maintain an internal log documenting the results of the inspections performed. Within 36 months of the effective date of the permit (1-1-98).	Inspect and keep records.	Yes	Pollution Control inspected 59 high risk facilities in the City of Sarasota and 107 in unincorporated Sarasota County in 1998. The internal log was updated.	

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			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
	Sarasota County & City of Sarasota	Maintain a list of all industrial storm water sources discharging to the MS4 and update in annual reports. Effective date of permit (1-1-95).	Continue program from previous years.	Yes	The list was updated in 1998.	
8b: Industrial and High Risk Runoff. Monitoring for High Risk Industries.	Sarasota County & City of Sarasota	Develop a monitoring (or self monitoring) program for high risk industrial facilities. Include a description of the specific enforcement steps to be taken to require compliance with local storm water ordinances if violations are identified. After development, include a summary of the monitoring program in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	The monitoring program described in previous annual reports was continued in 1998.	Manufacturers were inspected. Enforcement completed if no voluntary compliance.
	Sarasota County & City of Sarasota	Implement the monitoring program for high risk industrial facilities. Within 36 months of the effective date of the permit (1-1-98).	Monitor.	Yes	Few significant discharges were found at these facilities. Most violations discovered during inspections by the Pollution Control Division generated voluntary compliance. A few code enforcement actions were generated by the inspections.	
9a. Construction Site Runoff, Site Planning & Structural and Non-Structural Controls.	Sarasota County	Review erosion and sediment control requirements to determine modifications necessary to correlate with SWFWMD's requirements and EPA's NPDES Construction Activity General Permit. Summarize the necessary modifications in the subsequent annual report for incorporation into the permit. Within 12 months of the effective date of the permit (1-1-96).	Completed in previous years.	Yes	Requirements and modifications were reported in previous annual reports.	Transportation adopted the BMP Manual advising the use of straw bale barriers, silt fences, floating booms, erosion control blankets, and other erosion and sediment control measures.
	City of Sarasota	Review erosion and sediment control requirements to determine modifications necessary to correlate with SWFWMD's requirements and EPA's NPDES Construction Activity General Permit. Summarize the necessary modifications in the subsequent annual report for incorporation into the permit. Within 12 months of the effective date of the permit (1-1-96).	Completed in previous years.	Yes	Requirements and modifications were reported in previous annual reports.	
	Sarasota County	Incorporate the necessary modifications to the erosion and sediment control requirements. Within 36 months of the effective date of the permit (1-1-98).	Completed in previous years.	Yes	LDRs are regularly updated and include erosion considerations.	The schedule for development of the Stormwater Technical Manual has not been determined.
	City of Sarasota	Incorporate the necessary modifications to the erosion and sediment control requirements. Within 36 months of the effective date of the permit (1-1-98).	Completed in previous years.	Yes	Erosion/siltation permits adequately address control requirements.	
	Sarasota County	In land development regulations, incorporate guidelines and recommendations for reducing the amount of sediment leaving construction sites. Within 36 months of the effective date of the permit (1-1-98).	Completed in previous years.	Yes	LDRs are regularly updated and include erosion considerations.	

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			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
	City of Sarasota	In land development regulations, incorporate guidelines and recommendations for reducing the amount of sediment leaving construction sites. Within 36 months of the effective date of the permit (1-1-98).	Completed in previous years.	Yes	City Code, Chapter 29.5 Site Improvements - Engineering Design Criteria, subsection 29.5-8., addresses erosion and siltation control. This Chapter was included in Appendix I.	
9a. Construction Site Runoff, Site Planning & Structural and Non-Structural Controls (continued)	Sarasota County	Track construction projects required to install erosion and sediment controls. Document the installation, maintenance, and effectiveness of the controls. Integrate these records with the education program for training site contractors. Within 18 months of the effective date of the permit (7-1-96)	Inspect and keep records.	Yes	Pollution Control included BMPs in 552 reviews of construction documents. Resource Permitting required BMPs at 56 sites. Transportation and Natural Resources inspected.	
	City of Sarasota	Track construction projects required to install erosion and sediment controls. Document the installation, maintenance, and effectiveness of the controls. Integrate these records with the education program for training site contractors. Within 18 months of the effective date of the permit (7-1-96)	Inspect and keep records.	Yes	As reported in the annual reports for years two and three, inspectors with the City Engineer's Office routinely check for compliance with BMPs and require improvements as necessary.	
9b. Construction Site Runoff, Inspection and Enforcement.	Sarasota County	Review existing inspection policies and code enforcement programs to first identify all agencies conducting site inspections and then to determine which agency is responsible for issuing enforcement actions for which code violations. Summarize the results and include in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	County Transportation and Natural Resources conducted inspections and ensured voluntary compliance or enforcement. The summary was included in the annual report for year three.	
	City of Sarasota	Review existing inspection policies and code enforcement programs to first identify all agencies conducting site inspections and then to determine which agency is responsible for issuing enforcement actions for which code violations. Summarize the results and include in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	The City Engineer's office inspects and requires compliance with erosion control measures.	
	Sarasota County	Train inspectors (regardless of specialty) who are likely to be on-site during earth moving activities in erosion control techniques. One inspector per year.	Train one inspector per year.	Yes	Pollution Control trained two inspectors in 1998.	Sarasota County supported the development of an inspector certification course at the Suncoast Public Works Academy.
	City of Sarasota	Train inspectors (regardless of specialty) who are likely to be on-site during earth moving activities in erosion control techniques. One inspector per year.	Train one inspector per year.	Yes	The City inspector was FW&PCOA trained in 1995.	
	Sarasota County	Implement the use of an erosion and sediment control checklist for all inspectors. Include verification that construction sites subject to the NPDES Storm Water Regulations have NPDES permit coverage and a Storm Water Pollution Prevention Plan on site. Include the checklist in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	Transportation inspectors continued to use the checklist.	

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			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
	City of Sarasota	Implement the use of an erosion and sediment control checklist for all inspectors. Include verification that construction sites subject to the NPDES Storm Water Regulations have NPDES permit coverage and a Storm Water Pollution Prevention Plan on site. Include the checklist in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	Erosion/siltation permits function as checklists and were included with documents submitted during the permit application.	
9b: Construction Site Runoff Inspection and Enforcement (continued)	Sarasota County	Develop a program to inspect construction projects for compliance with local storm water ordinances and/or local permits. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	Natural Resources inspectors determine compliance. Voluntary compliance was achieved at most sites.	
	City of Sarasota	Develop a program to inspect construction projects for compliance with local storm water ordinances and/or local permits. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	City Engineering inspectors check for water quality violations during inspections for compliance with City Codes.	
	Sarasota County	Implement program developed to inspect construction projects for compliance with local storm water ordinances and/or local permits. Within 36 months of the effective date of the permit (1-1-98).	Inspect.	Yes	Natural Resources inspectors determine compliance with the Pollution Control Code and 62-302.FAC, Surface Water Quality Standards.	
	City of Sarasota	Implement program developed to inspect construction projects for compliance with local storm water ordinances and/or local permits. Within 36 months of the effective date of the permit (1-1-98).	Inspect.	Yes	City inspectors require corrections or refer water quality violations to Pollution Control, FDEP, or SWFWMD.	
9c: Construction Site Runoff Site Operator Training.	Sarasota County & City of Sarasota	Implement an annual NPDES workshop for design professionals, land developers, inspectors, and contractors, including earth moving contractors. Topics to include are measures to reduce pollutants from sites, awareness of the NPDES program requirements for construction activities, and solutions to erosion and sediment problems found by inspectors during construction. Within 24 months of the effective date of the permit (1-1-97).	Educate.	No	Natural Resources educated design professionals during plans review and preconstruction meetings.	It is expected that a Construction Site Runoff workshop will be held in 1999.
	Sarasota County & City of Sarasota	Evaluate the feasibility of an erosion & sediment control certification program for construction site operators (contractors and developers), plan reviewers, and inspectors that work on sites that discharge to the MS4. Upon conclusion of the evaluation, include a summary of the findings in the subsequent annual report for incorporation into the permit. Within 30 months of the effective date of the permit (1-1-98).	Completed in previous years.	Yes	The FDEP already had a similar program.	
	Sarasota County & City of Sarasota	If the certification program is deemed feasible, implement program for construction site operators, plan reviewers, and inspectors. Within 36 months of the effective date of the permit (7-1-98).	Completed in previous years.	Yes	The FDEP program would be supported when available.	

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			Activities Required by SWMP	Complied with	Activities Accomplished During Calendar Year	
	Sarasota County	Develop a procedure to notify building permit applicants in developments which, because of the amount of land area disturbed, are subject to the NPDES storm water regulations of their application responsibilities under the NPDES permitting program for construction site runoff. After development, include a summary of the procedures in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	Builders were notified about necessary NPDES permits for sites over five acres during the plans review phase.	Sarasota County will modify the language on plan review forms to reflect NPDES Phase II regulations when the new rules are implemented.
9c. Construction Site Runoff. Site Operator Training (continued)	City of Sarasota	Develop a procedure to notify building permit applicants in developments which, because of the amount of land area disturbed, are subject to the NPDES storm water regulations of their application responsibilities under the NPDES permitting program for construction site runoff. After development, include a summary of the procedures in the subsequent annual report for incorporation into the permit. Within 24 months of the effective date of the permit (1-1-97).	Completed in previous years.	Yes	Builders were notified about necessary NPDES permits for sites over five acres during the plans review phase.	
	Sarasota County	Implement developed procedures to notify building permit applicants in developments which, because of amount of land area disturbed, are subject to the NPDES storm water regulations of their application responsibilities under the NPDES permitting program for construction site runoff. Within 30 months of the effective date of the permit (7-1-97).	Notify builders.	Yes	Builders were notified about necessary NPDES permits for sites over five acres during the plans review phase.	Standard language on forms.
	City of Sarasota	Implement developed procedures to notify building permit applicants in developments which, because of amount of land area disturbed, are subject to the NPDES storm water regulations of their application responsibilities under the NPDES permitting program for construction site runoff. Within 30 months of the effective date of the permit (7-1-97).	Notify builders.	Yes	Builders were notified about necessary NPDES permits for sites over five acres during the plans review phase.	
	Sarasota County & City of Sarasota	Conduct presentations to local professional organizations which are associated with the construction industry to discuss proper construction site management for water quality. Ongoing.	Educate.	Yes	County and City Employees were very involved with the Florida Association of Storm Water Utilities and the Florida Stormwater Programs Association.	

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Section 4 - Narrative Reports for SWMP Activities

4.1 Maintenance of Structural Controls

Retention and Detention Structures - All City, County and State ponds were mowed, treated and inspected monthly. All debris was removed and properly disposed of at the landfill. Eighty-nine wet retention areas were inspected semiannually. Seven hundred forty-four dry retention area inspections were completed with 357 acres mowed. Five thousand two hundred five acres of wet retention areas were treated with herbicides.

Underdrain systems were flushed and maintained to restore proper capacity. During the time of inspection all skimmer plates, inlets, outlets, and weir crests were checked.

All side slopes were inspected for erosion and adequate vegetative cover. Herbicide application was performed as needed to reduce noxious aquatic plants

Drainage Operations devoted a section to monitoring and maintenance of littoral shelves and mitigation plantings to ensure required survivorship and coverage. Maintenance of littoral shelves and mitigation areas was performed manually rather than with herbicides.

Drainage Operations initiated an Adopt-A-Pond Program in Sarasota County. Like the existing "Adopt-A-Road" program, individuals, homeowners associations, and businesses adopted publicly owned and operated storm water treatment ponds to provide litter removal and other

maintenance efforts. This program also served to satisfy a part of the public education element of this permit. Drainage Operations promoted the "Adopt-A-Pond" program through education and brochures.

Weirs / Flow Control Devices - Weirs and flow control devices within County drainage ways were inspected twice in 1998 for a total of 104 inspections. Items of interest during inspections were erosion, sediment, and debris accumulation; bleed down devices; underdrain systems; and general conditions of the structure. Deficiencies and maintenance needs were reported to the appropriate maintenance entity. A number of erosion deficiencies were located through inspections and repaired by Drainage Operations crews.

Several new weirs and flow control structures were built through capital improvement projects and were added to the inventory and maintenance schedule.

Channels - In 1998 approximately 157 miles of ditches were maintained. Maintenance included debris, litter, and vegetation removal; herbicide application for noxious aquatic plants; excavation of accumulated sediments to return the structure back to the original cross section; and repair of eroded areas, including revegetation and restabilization of the repaired areas. Annual maintenance schedules were established for the cleaning of flood prone areas. Roadside ditches were maintained on an as-needed basis or in response to public requests. Sarasota County supplemented its work force with a number of maintenance contracts for mowing, hand cleaning, and herbicide application. Twenty-eight miles of channels were cleared of vegetation by prison labor, 130 miles by hand clearing contracts, and 404 miles were cleared mechanically.

Privately Owned and Maintained Storm Water Systems - An inventory of all residential subdivisions and commercial parcels that received credits toward their storm water management assessments was updated as development occurred. These subdivisions and parcels were credited for the proper operation and maintenance of their storm water systems. The Stormwater Division inspected the structural integrity of the systems. Outfall control structures, sediment sumps, slope erosion, underdrain/filtration systems, and sediment accumulation were compared to the construction plans or record drawings. Inspections for treatment systems were done every two years for wet detention systems. Systems utilizing underdrains or other filtration methods were inspected every 18 months.

Systems that passed inspection continued to receive the assigned assessment credit. Owners of systems with deficiencies were given 90 days to bring the facility into compliance with the design. If after 90 days the deficiencies remained, the owner was notified and assessment credits were revoked for all properties served by that system. For a failed system to re-qualify for credits, certification from a registered engineer must be submitted demonstrating that the system again operated as designed.

During 1998, 32 privately owned and maintained storm water treatment systems were inspected and all passed. The owners were cooperative and took prompt action to bring the systems into full compliance

Training ~ Drainage Operations training consisted of a number of classes on erosion and sediment control and the proper installation, inspection and maintenance of Best Management Practices (BMPs).

The Suncoast Public Work Academy's core course introduced Sarasota County job opportunities to new employees and the public. The course centered on practical approaches for effective erosion and sediment control, but also included management of runoff-related pollution. Emphasis was placed on the importance of proper inspection, maintenance, and the need to continually evaluate the effectiveness of the BMPs.

Drainage Operations selected a number of employees to attend the FW&PCOA training course. All employees successfully completed the training and passed the certification test receiving their Class C and B certificates.

Two County employees, one from the Public Works Business Center and one from the Environmental Services Business Center, participated in a FDEP sponsored training course. The course was a "train-the-trainer" instruction for the newly developed Erosion and Sediment Control Inspector's Certification Program. In addition to the two County employees, a City of Sarasota employee participated in this course, as well as the Suncoast Public Works Academy Coordinator. The instruction was held late in 1998, therefore, the participants did not receive the instructor's exam during this report period. It is anticipated that these four individuals will form a facilitating team when the certification course is offered at the Suncoast Public Works Academy, expected in 1999.

A County employee, who holds a Class B Certificate from the FW&PCOA, and who has taken the FDEP Erosion and Sediment Control Inspector's Certification Course (train-the-trainer), provided field training to maintenance and construction crews. The training included hands-on instruction in the installation, inspection, and maintenance of BMPs. Several new methods of controlling off-site impacts were used. De-watering techniques were enhanced with gravel filters, stilling ponds, and innovative use of geotextiles. Classroom instruction was also provided to equipment operators. Topics included permitting regulations, stabilization of disturbed areas, and use of vegetation as erosion and sediment control.

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4.2 Development Planning Procedures

Basin Master Planning - The Basin Master Plans are in-depth studies of individual drainage basins. The scope of each Master Plan included determining basin boundaries, and evaluating existing drainage structures for deficiencies in pre-established water quantity and water quality service-level criteria. The City of Sarasota continued to participate in the County's Basin Master Planning Program during 1998, and provided input, guidance, and priorities on drainage basins located within the city limits. To date, twenty basins studies were completed; five during 1998. One basin is currently being studied. The remaining six basins are scheduled for study prior to the year 2000. Local coastal basins are studied individually, as flooding and water quality deficiencies dictate. Two coastal basin studies were completed and two were in progress.

Studies Completed	Current Studies	Scheduled
1. Alligator Creek	1. Whitaker Bayou	1. Myakka River
2. Big Slough	2. Landings Coastal Basin	2. Deer Prairie Slough
3. Clowers Creek	3. Pine Harrier Coastal Basin	3. Little Salt Creek
4. Elligraw Bayou		4. Business District
5. Forked Creek		5. Braden River
6. Gottfried Creek		6. Shackelford Creek
7. Hudson Bayou		
8. Matheny Creek		
9. Phillippi Creek		

10.	Anger Creek*		
11.	Cow Pen Slough*		
12.	Holiday Bayou*		
13.	Woodmere Canal*		
14.	Hatchett Creek*		
15.	Bay Acres Coastal Basin		
16.	Fox Creek		
17.	North Creek*		
18.	South Creek*		
19.	Curry Creek*		
20.	Cattish Creek*		

* Studies complete; Board of County Commissioners approval scheduled for 1999.

Sarasota County encouraged the use of pervious paving surfaces. Overflow parking areas for churches and commercial developments were logical candidates for pervious surfaces. Property owners who utilized pervious surfaces received lower storm water assessments since their contribution of runoff to the drainage system was reduced.

Owners of agricultural, commercial, and condominium properties in Sarasota County received a reduction in storm water assessments for retaining open space. If applicable, the gross parcel size was reduced by the natural area, lakes, ponds, and wetlands on the property. The storm water assessment was based on this adjusted gross area. Open space that was landscaped was assessed at a lower rate than paved areas or other impervious areas.

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4.3 Roadway Maintenance

Litter Control for Streets and Highways - Litter control of maintained streets and highways continued to be achieved through the scheduling of City and County employees, jail inmates, and volunteers. The Keep Sarasota Beautiful program coordinated 36 volunteer groups for Adopt-A-Highway, distributed car trash bags to many businesses, coordinated Coastal Cleanups, and promoted the Boaters and Anglers Pledge to reduce litter. These programs continued to successfully reduce the amount of roadside debris and trash that would have accumulated in the storm water system. The County Solid Waste Department augmented litter removal near the Bee Ridge Landfill by regularly removing litter from public roads adjacent to the landfill.

Maintenance Schedules- Catch basins and grates were cleaned on an as needed or storm event basis. Public complaints and work requests generated some additional maintenance, which disrupted the established schedule. Nevertheless, the schedule continued to meet the objectives of the SWMP.

Best Management Practices - Sarasota County continued to reduce the discharge of pollutants from roadway maintenance through the use of BMPs. The County Transportation Department Best Management Practices and Integrated Pest Management Manual identified the BMPs and included procedural instructions for compliance. The manual continued to be used as a guideline for the maintenance crews. It was included in previous annual reports.

Municipal Maintenance Yards - County and City equipment yards and maintenance shops of all sizes continued to minimize the discharge of pollutants by employing good housekeeping and materials handling methods. These sites did not contribute pollutants to storm water runoff. Established procedures required immediate clean up of all spills. Some wastes were recycled, others had proper disposal. All recycling and disposal contractors were required to possess the necessary authorizations and certifications to transport and handle the specific materials involved.

The County Fleet Management, Transit, and Fire Departments operated facilities for the maintenance and repair of vehicles and equipment and for storage and distribution of supplies. As reported in previous annual reports, proper procedures continued to be used for the acquisition, storage, and disposal of solid, liquid, and gaseous materials used at these facilities.

The City of Sarasota Public Works and Police Departments maintained three fleet maintenance facilities in 1998. Materials and wastes were stored in appropriate containers, until they were either recycled or disposed of by a licensed waste hauler (A & S Oil). Housekeeping practices improved at these facilities in 1998, as they have in previous years.

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4.4 Flood Management

Routine maintenance by County employees and contractors continued to provide effective flood management. Removal of debris, brush, vegetation, and accumulated sediments from drainage ways, culverts, and inlets resulted in acceptable levels of service for residents during most rain events. Sarasota County performed this maintenance within the City of Sarasota by means of an Interlocal Agreement adopted in 1990, and renegotiated in 1998. The modified agreement obligated Sarasota County to continue maintenance, basin planning, and capital improvements within the City of Sarasota. A new aspect of the agreement assigned to the County the NPDES reporting responsibilities for permit activities performed by the City of Sarasota. A copy of the renegotiated Interlocal Agreement is included in this report as Appendix A.

Critical Capacity Ordinance - As a result of widespread flooding experienced in July 1995, the County continued to enforce a Critical Capacity Ordinance (No. 95-278). This ordinance identified drainage basins that were considered to be "areas of known stormwater problems". Specific discharge rates based on the existing capacity of the existing downstream drainage facility were determined for each of the affected basins. The Ordinance is intended to eliminate the "problem" designation once capital improvement projects within the affected basins are completed. This was achieved in the Elligraw Bayou basin during 1998, following the completion of the capital improvement project there.

Basin Master Plans- Flood control was also achieved through Basin Master Planning as discussed in Section 4.2. A result of the severe flooding during the summer of 1995, the schedule for completing Basin Master Plans was accelerated in 1995 and continued to be accelerated through 1998. Completed Basin Master Plans were referenced by staff during the review and approval process for rezone petitions, development plans, and construction plans. The Plans were also used in administration of the Community Rating System program.

Some actions that were the result of recently completed Basin Master Plans were as follows:

Phillippi Creek

The Redbug Slough capital improvement project was substantially designed in 1998 to address structure flooding along this tributary of Phillippi Creek. This project proposed to construct a by-pass conveyance for storm water during high flows. It was anticipated that, when complete, several structures would be removed from the threat of flooding.

Alligator Creek Basin

Construction of the Dolphin Lake Outfall project was substantially completed during 1998. This project, designed to address structure flooding in the Alligator Creek basin, incorporated several lakes into the conveyance system. These lakes will have a positive impact on the quality of the storm water flowing to the creek. Stabilization of the formerly eroded canal banks eliminated a large source of sediments that previously was carried downstream to the creek and bay.

Hudson Bayou Basin

In the urbanized Hudson Bayou basin, the School Desiltation project was designed during

1998. This project addressed structure and street flooding as well as water quality issues. Consisting of a desiltation basin, recontoured banks, planting of wetland vegetation, and channel stabilization improvements, the School Desiltation project will reduce pollutant loading in Hudson Bayou. Construction of this project is scheduled for 1999.

While primarily intended to reduce structure and street flooding, all of the Stormwater capital improvement projects also contain elements to reduce pollutant loading in receiving waters. In almost every case, the capital improvement projects include modification of the canal banks, stabilization, and use of weirs and lakes to improve not only the quantity of water conveyed but the quality of the water, as well.

A copy of the prioritized project list and construction schedule was included as Appendix C.

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4.5 Municipal Facilities

Solid Waste Facilities

The Sarasota County Bee Ridge Landfill was subject to NPDES Permit FLS0039306. The overall objective of the NPDES permit is to eliminate polluted discharges to surface water from the landfill and other activities on the property. Specific objectives include operation and maintenance of storm water structures, record keeping, and annual reporting. The landfill began closure construction in 1998, but the permit still requires pollution prevention procedures. In the event of a discharge, the permit requires discharge documentation to be sent to the EPA. Periodic reports are also sent to the FDEP Tallahassee Self-Monitoring Subsection.

Approximately 120 acres of the landfill were closed. These areas had grass established and were well drained by a system of berms, swales, and side-slope pipes. The runoff from closed portions of the landfill was directly discharged to two storm water retention basin. Approximately 100 acres of the landfill were receiving final cover. Closure is expected to be complete in late 1999. Interim control measures include silt fences and hay bale dikes.

All structures leading to storm water swales were in excellent shape and did not require any maintenance in 1998. The site was mowed on a regular basis and cleaned to grade when necessary. The maintenance schedule form submitted with the 1997 Annual Report is still in use.

The property was cleaned on an as-needed basis, including the interior and exterior roads. The exterior roads were cleaned more often because the vehicles using these roads contribute the major volume of roadside litter found outside the landfill. The FDEP Operation Permit also requires litter control. The litter control schedules included in the 1997 Annual Report are still in use.

Waste oils were stored in drums until picked up by a certified oil recycler. Used filters were drained and stored in drums until picked up by a certified oil recycler. Used oily rags were stored in drums, picked up, cleaned, and returned to the department for reuse. Oil drums were stored under roofs and in cradles with drip pans under each drum. The drip pans were dumped into the recycled used oil drums when necessary. All oil drums were kept locked after-hours as was the entire compound where the oil was stored.

Central County Solid Waste Disposal Complex (CCSWDC)

The CCSWDC was opened in 1998, and was subject to the NPDES storm water discharge requirements for municipal landfills. The Storm Water Pollution Prevention Plan for the CCSWDC is included in Appendix K. FDEP also regulates the site.

Jackson Road Transfer Station at the former Venice Landfill

The former Venice Landfill was closed in 1986 and was subject to a FDEP Long Term Care Permit that included storm water issues. The transfer station leachate control and storm water pollution prevention issues were also subject to FDEP regulations.

Browning Ferris Industries (BFI) Transfer Station

The City of Sarasota continued to contract with BFI to operate a solid waste transfer facility. The facility was regulated by a NPDES multisector permit, the Southwest Florida Water Management District (SWFWMD), and a FDEP Solid Waste Transfer Station Operation Permit. Leachate was discharged to the sanitary sewer. Runoff was detained in a SWFWMD regulated storm water pond.

Publicly Operated Wastewater Treatment Works (POTW)

Sarasota County Utilities owned and operated ten wastewater treatment plants:

- Bee Ridge Water Reclamation Facility (WRF) -- FLA013372
- Central County WRF -- FLA013455
- Meadowood WRF -- FLA013385
- Septage Treatment Plant -- FLA013375
- Venice Gardens WRF -- FLA0434940
- Atlantic-Brentwood Wastewater Treatment Plant (WWTP) -- FL0025887
- Plantation WRF -- FLA013365
- Circlewoods WWTP -- FLA013406
- Gulf View WWTP -- FLA013465
- Proctor Road WWTP -- DO58-248477

All were designed, constructed, and operated according to FDEP regulations. The FDEP permits required the County to develop and implement procedures to reduce polluted discharges

from POTWs, including overflows, and spills of materials stored on the plant sites. All abnormal events were appropriately reported to FDEP and Pollution Control. Appropriate clean-up, disinfection, and sampling procedures were followed.

All wastewater treatment plants were designed with considerations for flood protection. Plant service commitments were required to consider capacity analysis to ensure no hydraulic overloads. The plants were typically inspected a minimum of twice a day for leaking pipes, malfunctioning equipment, and other potential problems. Daily inspections were for pretreatment, biological nutrient reduction, chlorination equipment, and effluent. A private contractor hauled residuals to approved Residuals Management Facilities. The contract held the contractor responsible for any non-compliance issues. The Utility maintained contracts for emergency hauling of residuals to sites of higher elevations during periods of wet weather, which greatly reduced the possibility of storage problems at the treatment plants.

Most of the treated effluent discharged from County-owned wastewater treatment plants was reclaimed and used for irrigation of golf courses and residential areas. All plants that discharge are required to meet permit limitations in the quality of their effluent. Quarterly ground water monitoring is required at most sites where reclaimed water is applied. The plant effluent is monitored once a year for all primary and secondary State drinking water standards. In addition, all ground water monitor wells are tested during permit renewal for primary and secondary State drinking water standards. Most golf courses have storage ponds that the Utility discharges effluent into for later use as irrigation. These ponds are regulated by FDEP. When a reclaimed water storage pond is part of a storm water management system, the appropriate

storm water permits are obtained from the SWFWMD.

Mineral acid tanks, fuel tanks, and hazardous substance tanks with a capacity over 550-gallons are regulated and inspected by the FDEP. Although State rules require a visual inspection of these tanks once a month, they are actually inspected daily.

The City of Sarasota Public Works Department continued to operate one domestic wastewater treatment facility, which was staffed 24 hours per day. Diesel, acid, and caustic tanks were all within secondary containment. Wastewater residuals were composted and reused. Effluent disposal was subject to a NPDES permit for direct discharge to Whitaker Bayou, or to reuse irrigation. The Spill Response Plan approved by Pollution Control was still employed.

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4.6 Pesticides, Herbicides, and Fertilizers

The Sarasota County Co-operative Extension Service continued to sponsor education programs to address the reduction in the use of pesticides, herbicides, fertilizers, and in the reduction of landscape watering. The Extension Service provided advice on native plantings, xeriscaping, the appropriate use of fertilizers (including slow release), and Integrated Pest Management (emphasizing the "least-toxic" approach). The Florida Yards and Neighborhoods program educated the public about utilizing Environmental Landscape Management principles. The Florida House Learning Center demonstrated materials and methods to reduce energy, wastes and environmental impact.

In 1998, the Extension Service conducted 70 tours and welcomed 9000 visitors to the Florida House. Ninety-three educational landscape programs were conducted for more than 2000 attendees. The Florida Yards program enrolled 122 citizens, and 10 achieved Certified Florida Yard status. An outreach program in the public school system promoted the responsible use of pesticides, herbicides, and fertilizers. All these programs offered by the Co-operative Extension Service are available to any citizen of the County, including city residents.

Sarasota County employees whose duties include the application of pesticides and herbicides are certified by the Florida Department of Agriculture and trained by the Co-operative Extension Service. As a condition of employment, all pesticide applicators are required to obtain State certification within six months of employment. Certification was maintained

through continuing education credits as specified by the Department of Agriculture. Additional training is provided to employees during monthly in-house workshops, that include calibration of spray equipment, herbicide label directions, water-quality testing, and safety equipment. The training regimen was periodically re-evaluated by the personnel involved in the use of pesticides, herbicides, and fertilizers.

The Extension Service facilitated reports and evaluations performed by the County Environmental Pest Management Advisory Board, that reviewed the Integrated Pest Management (IPM) programs of selected departments. They also formed the County Landscape Review Committee, that examined all plans for new and renovated landscaping to ensure compliance with NPDES principles, and developed detailed guidelines for landscape architects designing new landscapes for County facilities. The Extension Service evaluated County facilities involved in storage of pesticides and fertilizers and reviewed and made adjustments to County Purchasing documents to ensure that materials obtained were less polluting (e.g., slow release fertilizers).

Employees of the School Board, the City of Sarasota, the City of North Port, and the City of Venice joined the IPM working group. The IPM Coordinator gave three presentations to the public in 1998 about least toxic pest management techniques.

Sarasota County continued to follow the Integrated Pest Management Program Administrative Directive as adopted in January of 1995. The objective of this program is to reduce the County's usage of pesticides and herbicides. When use of pesticides or herbicides is deemed

necessary, the policy emphasized the least toxic approach to achieve the desired results. The IPM Program proposes changes in policies and practices in response to new information, regulations, and technology.

Alternate methods of controlling pests, those with less environmental and health hazards, are used when deemed equally effective:

- Mosquito Control Division used mosquito larva eating fish in permanent pools of water. The fish were supplied to homeowners and other groups free of charge.
- Aerators and grass carp consumed unwanted aquatic vegetation in County maintained lakes.
- Some aquatic plant control was accomplished using computer operated spray systems that assure the proper rate of herbicide application, thus reducing the chance of excess application.
- The Transportation Department bought a Hot Water Weed Control Machine in 1998. Hot water was used as an alternative to herbicides for weed control along roadways.
- A pine oil resin was instituted as a nontoxic alternative to pesticides for control of fire ants on County properties.
- Parks and Recreation initiated a pesticide notification program to tell the public when pesticides had been used at public facilities. Some parks were established as pesticide-free playgrounds.

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4.7 Illicit Discharges - Inspection, Investigation and Enforcement

Pollution Control and the Hazardous Waste Program thoroughly investigated many citizen complaints and agency referrals, and also initiated many proactive facility inspections involving illicit discharges to the MS4. Investigations were well documented, sometimes enhanced by photographs, field-testing, and sampling. Responsible parties were promptly advised of the illicit discharges and typically complied voluntarily. Enforcement usually was via code enforcement or referral to another regulatory agency. Citizens and responsible parties were educated about illicit discharges. Refer to Appendix E for standard investigative procedures.

Nineteen types of discharges, listed under Part II.A.7 a of the permit, and uncontaminated roof drains were allowed to discharge into the MS4.

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4.8 Field Screening

Dry-weather field screening of major storm water outfalls was conducted to detect illicit connections and improper discharges to the MS4. Pollution Control exceeded the permit requirements to field screen one third of the outfalls. Eighty-five sites were screened in the City of Sarasota and 87 were screened in the unincorporated County. During 1998, a few minor illicit discharges were found as a result of the required dry weather field screening. No field measurements or laboratory analyses detected contaminants above State water quality standards. Refer to Appendix L for lists of dry weather field screening sites in the City and County.

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4.9 Spill Response

The Sarasota County Hazardous Materials Plan described procedures to be followed in the event of a hazardous materials spill, as reported in the annual report for year one. An interlocal agreement between the City of Sarasota and Sarasota County consolidated the Fire Departments in 1996, so the plan is followed in both jurisdictions. The Fire Department Special Operations Team is the lead agency and responded to 634 calls in 1998. Hazardous Waste assisted in 21 instances.

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4.10 Public Reporting of Illicit Discharges

The Pollution Control Division continued the 24-hour on-call response to pollution events as described in the annual report for year three. The Water Quality Section Staff responded to 416 complaints or pollution incidents during 1998. A summary table of incident types is included in Appendix F.

In 1998, the public was made more aware of the necessity to report illicit discharges:

- Each complaint investigation involved educating the persons involved.
- The Florida Local Environmental Agencies 1998 annual conference was addressed about NPDES storm water issues.
- Several presentations were made to schools and promotional materials were distributed.
- Refrigerator magnets and other promotional materials were created and distributed. Each item advertised the 24-hour service to receive reports of pollution events.
- Several news items appeared in local newspapers and on television about illicit discharge investigations of popular interest.
- Natural Resources newsletter, that was distributed to the public, included several articles about investigations of illicit discharges and storm water issues
- Presentations were made to environmental clubs and other interested groups regarding illicit discharges.

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4.11 Oil and Household Hazardous Waste

The Hazardous Waste Program provided citizens with a proper method of disposal for household hazardous waste and used oil. Businesses defined as Conditionally Exempt Small Quantity Generators (CESQGs) were provided an inexpensive method of disposal for hazardous wastes.

Six oil drop-off locations were open to the public 24 hours a day, 7 days a week, and collected (and subsequently recycled) 27,660 gallons of used oil that may have otherwise been dumped into the MS4

Two permanent household hazardous materials collection stations were open to the public one day each week. A mountain, 440,966 pounds, of household hazardous waste was collected through the use of these stations and also from Amnesty Day events.

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4.12 Sanitary Sewer Seepage

The three most likely sources of sanitary sewage seepage were from sewer lines, manholes, and lift stations. As previously reported, all wastewater treatment facilities are regulated by local, State and Federal rules and permits regarding all aspects of design and operation.

Sarasota County Utilities continued to make improvements to ten treatment facilities and associated collection systems, thereby reducing the severity of system failures and sewage overflows:

- All aspects of wastewater systems construction were inspected for compliance by the County.
- Lift stations were fenced to prevent vandalism that could cause station failures or overflows.
- A County vacuum truck flushed an average of 2000 lineal feet of gravity sewer lines daily.
- Utilities completed phase one of a telemetry system (SCADA) that was installed on 280 lift stations in 1998. The system dramatically reduced the response time to malfunctioning lift stations. Spill response was faster and less volume was discharged.
- An improved program of regular lift station maintenance was continued.
- The Spill Response Standard Operations Procedure was continued.
- A video truck was purchased in 1998. By viewing broken and misaligned pipes, resources were allocated to those sections most likely to fail.

- A Sanitary Sewer Evaluation Study (SSES) continued to assess the integrity of gravity sewer lines and manholes. Inflow and infiltration were reduced in the worst portions of the collection system first.

The City of Sarasota Public Works Department continued to improve one domestic wastewater treatment facility:

- Substantial maintenance and capital upgrades improved the system in 1998.
- Although grant funding was no longer available, an infiltration and inflow control project was continued.
- The cleaning and televising study of the collection system focused repairs (including slip lining) on the weakest components.
- A pilot project to reduce infiltration by replacing 500 privately owned portions of the collection system was initiated.
- The Spill Response Plan approved by Pollution Control was still employed.
- Wastewater residuals were composted and reused as mulch.
- Effluent disposal was subject to a NPDES permit for direct discharge to Whitaker Bayou, or to reuse irrigation.

Wastewater treatment facilities, including their collection and transmission systems, were regulated by Pollution Control and the FDEP. In 1998, the FDEP delegated the regulation and permitting of smaller (less than 100,000 gallons/day) domestic wastewater facilities to Pollution Control.

Eighty Wastewater Treatment Facilities in Sarasota County reported 98 discharges and 105 other abnormal events to Pollution Control and FDEP in 1998. All citizen reports of discharges from sanitary sewers were promptly reported to the appropriate utility.

All reports of septic system discharges were referred to the Sarasota County Health Department. Pollution Control investigated some of the reports. Many cases resulted in code enforcement, primarily initiated by the Health Department.

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4.13 High Risk Industrial Facility Inspections

In 1998, 166 facilities were inspected by Pollution Control using the same methods as described in previous annual reports. Refer to Appendix M for lists of the 58 inspected facilities in the City and 108 in the County. Refer to Appendix H for the inspection protocol. Refer to Appendix I for the permitting manual to be distributed to select businesses.

Few significant discharges were found at these facilities. Most violations discovered during inspections by the Pollution Control Division generated voluntary compliance. A few code enforcement actions were generated by the inspections.

The County Hazardous Waste Management Division inspected 121 businesses during 1998. The inspection included completing a NPDES Storm Water Inspection form that was later forwarded to Pollution Control.

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4.14 Construction Planning Procedures

Sarasota County Land Development Regulations (LDR) are updated annually in regard to storm water pollution. The LDRs specifically prohibited construction activities from violating water-quality standards as established by State rule. Aspects addressed by the LDRs included flood control criteria, pre- and post- development runoff rates, retention and detention of "first flush" runoff, construction phasing, and operation and maintenance plans for the storm water system. BMPs were required by the LDRs to minimize pollution, to control erosion, and to remove sediment from surface water runoff. Sarasota County Transportation is still considering the development of a Storm Water Management Technical Manual to append to the LDR, as reported in previous annual reports.

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4.15 Construction Inspections

Natural Resources inspected more than 56 construction sites during 1998 and in all cases the developer quickly rectified all violations found. Enforcement was possible through the LDRs (Ordinance No. 95-021 amending Ordinance No. 81-12), and the Pollution Control Code (Ordinance No. 96-020, as amended).

Chapter 29.5 of the City Code of the City of Sarasota required erosion and siltation permits for all soil disturbing activities, all commercial construction permits, and some residential construction permits. The permit required implementation of BMPs for erosion, siltation, and pollution prevention. Inspections were conducted by an employee of the City Engineer's office, who was certified through FW&PCOA for construction site erosion and siltation BMPs. Enforcement was handled by the Building Department, using code enforcement or stop work orders.

During Year Four of the permit, several County employees received training on erosion and sediment control. The classes were sponsored by various organizations, including the International Erosion Control Association, and were facilitated by the Suncoast Public Works Academy. The Sarasota County Storm Water Division staff conducted in-house training. American Society for Civil Engineers (ASCE) classes were also taken.

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4.16 Education Activities

Sarasota County participated in the FDEP certification program. In 1998, two County employees participated in the "train-the-trainer" program for this certification course. In addition, an employee of the City of Sarasota Engineering Department and the Suncoast Public Works Academy Coordinator also participated in the "train-the-trainer" program. It is anticipated that the certification course would be offered at the Suncoast Public Works Academy beginning in 1999.

The Pollution Control Division sponsored the fourth annual Domestic Waste Workshop in October of 1998. Participants at the workshop included wastewater treatment facility permittees and operators, FDEP personnel, engineers, laboratory personnel, and other representatives. The informative presentations included permitting changes, rule changes, reporting requirements, grease management, residuals, disaster preparedness, and catastrophic failures.

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4.17 Monitoring Activities

The Pollution Control Division continued to perform dry-weather field screenings of major outfalls and inspections of high-risk industrial facilities within the City of Sarasota and unincorporated area.

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4.18 Additional SWMP Activities

There were no additional activities to report at this time.

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Section 5 - Monitoring Program Report

5.1 Monitoring Objectives

In accordance with Part V.B., Sarasota County and co-permittees are required to conduct a monitoring program for representative data collection for the term of the permit. The Surface Water Ambient Monitoring Program (SWAMP) required that the Sarasota County permittees perform not only conventional in-water monitoring and water chemistry, but also analyze biological indicators and sediment samples in designated watersheds. The MS4 permit also limited the costs associated with the monitoring program, that were not to exceed the projected costs proposed by the co-permittees in the May 1993 Part II application submittal.

During year four, the monitoring data served to provide base-line information.

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Section 5 - Monitoring Program Report

5.2 Summary Table of Completed Monitoring

Refer to Table 5.2 for a list of monitoring locations, parameters, and date and frequency of sample collection.

Table 5.2- Summary Table of Completed Monitoring

Watershed/Number of Stations	Type	Parameters	Frequency	Completed	Comments
Bay and Stream Runs					
Sarasota Bay/25 Stations	Water Quality	Temp., pH, DO, salinity, specific conductance, BOD, color, turbidity, TSS, dissolved NO ₂ , dissolved NO ₃ , NO ₂ +NO ₃ -N, dissolved and total ammonia, dissolved inorganic nitrogen, TKN, TN, orthophosphate, TP, chlorophyll, and secchi depth	Monthly	Yes	See Appendix N for an example of one set of results from one monthly sampling event.
Lemon Bay/5 Stations	Water Quality	Temp., pH, DO, salinity, specific conductance, BOD, color, turbidity, TSS, dissolved NO ₂ , dissolved NO ₃ , NO ₂ +NO ₃ -N, dissolved and total ammonia, dissolved inorganic nitrogen, TKN, TN, orthophosphate, TP, chlorophyll, and secchi depth	Monthly	Yes	See Appendix N for an example of one set of results from one monthly sampling event.
Upper Myakka/5 Stations	Water Quality	Temp., pH, DO, salinity, specific conductance, BOD, color, turbidity, TSS, dissolved NO ₂ , dissolved NO ₃ , NO ₂ +NO ₃ -N, dissolved and total ammonia, dissolved inorganic nitrogen, TKN, TN, orthophosphate, TP, chlorophyll, and secchi depth	Monthly	Yes	See Appendix N for an example of one set of results from one monthly sampling event.
Lower Myakka/5 Stations	Water Quality	Temp., pH, DO, salinity, specific conductance, BOD, color, turbidity, TSS, dissolved NO ₂ , dissolved NO ₃ , NO ₂ +NO ₃ -N, dissolved and total ammonia, dissolved inorganic nitrogen, TKN, TN, orthophosphate, TP, chlorophyll, and secchi depth	Monthly	Yes	See Appendix N for an example of one set of results from one monthly sampling event.
Philippi Creek/Coburn Road, 50' above weir	Sediment Cores	Particle size distribution, aluminum, cadmium, chromium, copper, lead, zinc, TN, TP, and TOC	Annually; in December	No	
Philippi Creek/Coburn Road, 50' above weir	Water Quality	COD, BOD, NO ₂ + NO ₃ -N, TKN, total and dissolved phosphorus, TDS, TSS, oil and grease, cadmium, chromium, copper, lead, zinc, in-situ temp., pH, DO, and specific conductance	Twice Annually: dry season April/May and wet season July/August	Yes, dry season 05/15/98 No, wet season	See Appendix O for results.
Philippi Creek/Coburn Road, 50' above weir	Biological	Analysis of biological community	Twice Annually: dry season April/May and wet season July/August	Yes; dry season 05/22/98 No, wet season	See Appendix O for results.
Philippi Creek/50' south of Bahia Vista Bridge	Sediment Cores	Particle size distribution, aluminum, cadmium, chromium, copper, lead, zinc, TN, TP, and TOC	Annually; in December	No	

Table 5.2- Summary Table of Completed Monitoring

Watershed/Number of Stations	Type	Parameters	Frequency	Completed	Comments
Philippi Creek/50' south of Bahia Vista Bridge	Water Quality	COD, BOD, $\text{NO}_2 + \text{NO}_3$ -N, TKN, total and dissolved phosphorus, TDS, TSS, oil and grease, cadmium, chromium, copper, lead, zinc, in-situ temp., pH, DO, and specific conductance	Twice Annually, dry season April/May and wet season July/August	Yes; dry season 05/15/98 No; wet season	See Appendix O for results.
Philippi Creek/50' south of Bahia Vista Bridge	Biological	Analysis of biological community	Twice Annually; dry season April/May and wet season July/August	Yes; dry season 05/22/98 No; wet season	See Appendix O for results.
Big Slough (Myakkahatchee Creek)/at Interstate 75, 100' north of bridge	Sediment Cores	Particle size distribution, aluminum, cadmium, chromium, copper, lead, zinc, TN, TP, and TOC	Annually; in December	No	
Big Slough (Myakkahatchee Creek)/at Interstate 75, 100' north of bridge	Water Quality	COD, BOD, $\text{NO}_2 + \text{NO}_3$ -N, TKN, total and dissolved phosphorus, TDS, TSS, oil and grease, cadmium, chromium, copper, lead, zinc, in-situ temp., pH, DO, and specific conductance	Twice Annually, dry season April/May and wet season July/August	Yes; dry season 05/15/98 No; wet season	See Appendix O for results.
Big Slough (Myakkahatchee Creek)/at Interstate 75, 100' north of bridge	Biological	Analysis of biological community	Twice Annually; dry season April/May and wet season July/August	Yes; dry season 05/21/98 No; wet season	See Appendix O for results.
Big Slough (Myakkahatchee Creek)/100 yds. above dam at North Port Water Plant	Sediment Cores	Particle size distribution, aluminum, cadmium, chromium, copper, lead, zinc, TN, TP, and TOC	Annually; in December	No	
Big Slough (Myakkahatchee Creek)/100 yds. above dam at North Port Water Plant	Water Quality	COD, BOD, $\text{NO}_2 + \text{NO}_3$ -N, TKN, total and dissolved phosphorus, TDS, TSS, oil and grease, cadmium, chromium, copper, lead, zinc, in-situ temp., pH, DO, and specific conductance	Twice Annually, dry season April/May and wet season July/August	Yes; dry season 05/15/98 No; wet season	See Appendix O for results.
Big Slough (Myakkahatchee Creek)/100 yds. above dam at North Port Water Plant	Biological	Analysis of biological community	Twice Annually; dry season April/May and wet season July/August	Yes; dry season 05/21/98 No; wet season	See Appendix O for results.

Table 5.2- Summary Table of Completed Monitoring

Watershed/Number of Stations	Type	Parameters	Frequency	Completed	Comments
Hudson Bayou/Osprey Avenue Bridge	Sediment Cores	Particle size distribution, aluminum, cadmium, chromium, copper, lead, zinc, TN, TP, and TOC	Annually; in December	No	Site was included during sample collection of Phase I, heavy metals monitoring, for Hudson Bayou on 05/14/98
Hudson Bayou/Osprey Avenue Bridge	Water Quality	COD, BOD, NO ₂ + NO ₃ -N, TKN, total and dissolved phosphorus, TDS, TSS, oil and grease, cadmium, chromium, copper, lead, zinc, in-situ temp., pH, DO, and specific conductance	Twice Annually; dry season April/May and wet season July/August	Yes; dry season 05/15/98 No; wet season	See Appendix O for results.
Hudson Bayou/Osprey Avenue Bridge	Biological	Analysis of biological community	Twice Annually; dry season April/May and wet season July/August	Yes; dry season 05/22/98 No; wet season	See Appendix O for results
Hudson Bayou/Orange Avenue Bridge	Sediment Cores	Particle size distribution, aluminum, cadmium, chromium, copper, lead, zinc, TN, TP, and TOC	Annually, in December	No	Site was included during sample collection of Phase I, heavy metals monitoring, for Hudson Bayou on 05/14/98
Hudson Bayou/Orange Avenue Bridge	Water Quality	COD, BOD, NO ₂ + NO ₃ -N, TKN, total and dissolved phosphorus, TDS, TSS, oil and grease, cadmium, chromium, copper, lead, zinc, in-situ temp., pH, DO, and specific conductance	Twice Annually; dry season April/May and wet season July/August	Yes; dry season 05/15/98 No; wet season	See Appendix O for results.
Hudson Bayou/Orange Avenue Bridge	Biological	Analysis of biological community	Twice Annually; dry season April/May and wet season July/August	Yes; dry season 05/22/98 No; wet season	See Appendix O for results
Hudson Bayou heavy metals Phase I. Twelve stations to be established from the mouth to the headwaters of the basin	Sediment Cores	Grain size distribution, aluminum, chromium, copper, lead, zinc, TN, TP, and TOC	Once upon completion of dredging	Yes, 05/14/98	See Appendix P for results.

Table 5.2 - Summary Table of Completed Monitoring

Watershed/Number of Stations	Type	Parameters	Frequency	Completed	Comments
Hudson Bayou heavy metals Phase II					
	Composite		Six month period sampling up to eight storm events		
Five stations to be established	Water Samples	Cadmium, chromium, copper, lead, and zinc		No	Phase II to be performed in 1999.

Annual Report

Section 5 - Monitoring Program Report

5.3 Monitoring Conclusions

As required in Part V.B of the NPDES permit, the monitoring program continued during year four. Sarasota County Natural Resources continued a contract for long-term ambient water-quality monitoring, which included a total of 40 stations (25 stations in Sarasota Bay, 5 stations in Lemon Bay, 5 stations in Upper Myakka River, and 5 stations in Lower Myakka River). Analytical parameters and monitoring frequency for these stations are in Table 5.2. Field and laboratory results from one of the monthly sampling events are included in Appendix N. All data generated from the ambient monitoring is stored in the STORET database.

During 1998 samples were collected in the drainage basins of Phillippi Creek, Big Slough, and Hudson Bayou. The samples were collected during the dry season for water quality parameters and for biological analysis. The laboratory results are provided in Appendix O.

The Phase I heavy metals monitoring program for Hudson Bayou was completed in May 1998. Twelve sediment cores were sampled and analyzed for grain distribution, aluminum, lead, copper, zinc, chromium, total nitrogen, total phosphorus, and total organic carbon. A few of the samples showed elevated levels of lead. The laboratory results are provided in Appendix P. Before progressing on to Phase II, the Pollution Control Division will be preparing a sampling plan to detail the resources needed for additional field sampling and laboratory analyses in the many tributaries and major storm water outfalls entering the bayou. This sampling is scheduled for 1999. The Hudson Bayou Phase II program is scheduled for year five. This phase employs

the use of automated samplers to collect composite water samples at five stations. The location of the samplers will be based on the results of the Phase I sediment monitoring.

During 1998 Mote Marine Laboratory was under contract by the Sarasota Bay National Estuary Program to identify the historic and present-day regions within the Hudson Bayou watershed that have the potential to contribute toxic compounds to the receiving waters. The report contained five activities; historical sources, present-day sources, multi-sector sources, storm water loadings, and new analyses. The report is in draft form only and will be finalized in 1999.

Annual Report

Section 5 - Monitoring Program Report

5.4 Monitoring Compliance

The monitoring program involved the use of three contractors to perform the tasks of field sampling, laboratory testing, and biological sampling and identification. All contractors coordinated their efforts to assure timely results. A majority of the monitoring program was performed as required. The exceptions to this program were the wet season samples and sediment core samples that were not collected as a result of an oversight. Two of the six sediment core samples were included in the May 1998 sampling of Phase I, heavy metals monitoring, for Hudson Bayou. The sediment core samples scheduled for collection in December 1998 have been rescheduled for collection in July 1999.

Annual Report

Section 5 - Monitoring Program Report

5.5 Monitoring Program Revisions

Sarasota County and co-permittees request that the Part V B. monitoring program be revised to delete the language of designated sampling months of April/May and July/August. As a result of unforeseen weather patterns, the County and co-permittees are requesting to have the flexibility to determine the dry and wet season periods without being bound to exact months.

In addition, Sarasota County and the co-permittees are requesting a change to the heavy metals monitoring program in Hudson Bayou, Phase II. The change to the program would delete the use of Isco automated samplers as a result of the high cost proposed by the field sampling contractor. The County experienced several problems trying to accommodate this request such as having a contractor "on-call" during storm events, placing the samplers in unsecured areas, power requirements, and back up power supplies. The program would be modified to have all monitoring conducted on two separate grab samples. Samples will be taken from the point of discharge prior to mixing with the receiving water while the outfall is discharging. The first grab sample will be collected within the first 30 minutes of the discharge event or as soon thereafter as practicable. The second grab sample will be collected after two hours of the discharge event or upon termination of the rainfall, whichever occurs first. Sarasota County and co-permittees are in agreement to sample four storm events instead of the eight proposed. The results will be included in the year five annual report.

Annual Report

Section 5 - Monitoring Program Report

5.6 Inventory of Major Outfalls - Unincorporated Sarasota County

No new major outfalls were added to the inventory during 1998.

Three major outfalls were missing the coordinate information from the consultant and as a result, could not be located.

Drainage Basin	Basin Number	Station Number
Blackburn Canal	OF-SC-10	2055
Curry Creek	OF-SC-10	1428
Curry Creek	OF-SC-10	1456

Six major outfalls were verified to be located within the limits of the City of Sarasota and have been transferred to that list.

Drainage Basin	Basin Number	Station Number
Whitaker Bayou	OF-SC- 01	698
Whitaker Bayou	OF-SC-01	705
Whitaker Bayou	OF-SC-01(SA-01)	729
Whitaker Bayou	OF-SC-01(SA-01)	732
Whitaker Bayou	OF-SC-01(SA-01)	735
Whitaker Bayou	OF-SC-01(SA-01)	738

Thirteen major outfalls were not field screened as a result of accessibility issues or construction activities.

Drainage Basin	Basin Number	Station Number
Ainger Creek	OF-SC-16	1331
Ainger Creek	OF-SC-16	1341
Catfish Creek	OF-SC-16	1211
Catfish Creek	OF-SC-16	1214
Curry Creek	OF-SC-10	1443
Myakka River	OF-SC-18	1161
Myakka River	OF-SC-18	1281
Phillippi Creek	OF-SC-03	14
South Creek	OF-SC-08	1090
Whitaker Bayou	OF-SC-01	739
Whitaker Bayou	OF-SC-01	2099
Big Slough	OF-SC-20	1365
Big Slough	OF-SC-20	1347

One major outfall could not be located as per the map locations.

Drainage Basin	Basin Number	Station Number
Catfish Creek	OF-SC-06	1208

Two major outfalls were reassigned from Big Slough basin to Ainger Creek basin.

Drainage Basin	Basin Number	Station Number
Ainger Creek	OF-SC-16	1331
Ainger Creek	OF-SC-16	1341

Annual Report

Section 5 – Monitoring Program Report

5.6 Inventory of Major Outfalls (Continued) - City of Sarasota

One new major outfall was added to the inventory during 1998

Drainage Basin	Basin Number	Station Number
Hudson Bayou	OF-SA-02	HB-SA-001

Eight major outfalls could not be located as per the map locations.

Drainage Basin	Basin Number	Station Number
Hudson Bayou	OF-SA-02	1862
Whitaker Bayou	OF-SA-01	95
Whitaker Bayou	OF-SA-01	150
Whitaker Bayou	OF-SA-01	151
Whitaker Bayou	OF-SA-01	159
Whitaker Bayou	OF-SA-01	160
Whitaker Bayou	OF-SA-01	318
Whitaker Bayou	OF-SA-01	548

Three major outfalls were not field screened as a result of accessibility issues.

Drainage Basin	Basin Number	Station Number
Hudson Bayou	OF-SA-02	1918
Hog Creek	OF-SA-23	342
Hog Creek	OF-SA-23	343

Annual Report

Section 5 - Monitoring Program Report

5.7 Investigation of Organic Pollutants

This element of the monitoring program will be completed during 1999.

Annual Report

Section 5 - Monitoring Program Report

5.8 Seasonal Pollutant Loading and Event Mean Concentrations

Estimates of the seasonal pollutant load and of the event mean concentration of a representative storm for specified parameters will be completed in 1999. The completed study will be mailed to EPA and FDEP as soon as results are available. Refer to Appendix Q for the purchase order and scope of services.

Annual Report

Section 6 - Permit Modifications

6.1 SWMP Modifications

Sarasota County has not modified the Storm Water Management Plan described in or required by the permit. However, the permit allows modifications to the management program if activities are determined to be inefficient or ineffective elements. Any necessary modifications to the Program throughout the permit term will be justified and reported during the permit renewal process.

Annual Report

Section 6 - Permit Modifications

6.2 Monitoring Program Modifications

Pollution Control determined that the list of outfalls in the permit application contained many errors. The Division will be developing a more accurate database of each outfall. A format appropriate to the actual system components and considering the new definitions of major outfalls in the Phase II regulations will be developed. The same sub-basin names as are used by the County Storm water Division and the United States Geological Service will be used. Gradually, all outfalls to significant surface waters, and those with other significant characteristics, will be included in the database. Each will be defined by size, drainage area, land use, and major or minor status according to current rule definitions.

Annual Report

Section 6 - Permit Modifications

6.3 Other Permit Modifications

There were no permit modifications during year four of the permit.

Annual Report

Section 7 - Fiscal Analysis

These figures were based on the best available information from Sarasota County and the City of Sarasota that were responsible for implementing the elements. In some cases, the fiscal requirements for the previous year were not available. Other elements had insignificant costs and were not accounted for separately.

Table 7.1 Financial Survey for Year Four (1998)

Program Activity	Previous Year (FY 1997)	Current Year (FY 1998)	Future Year (FY 1999)	Funding Source/Comments
1. O & M of Structural Controls; Inspect Structural Controls	\$36,000	\$37,000	\$37,000	Stormwater Fees
1. O & M of Structural Controls; Private Storm Water Systems	Not Available as a Line Item Cost			Costs included with Inspections of Structural Controls
1. O & M of Structural Controls; Inspector Training	\$7,450	\$8,450	\$8,450	Stormwater Fees & Transportation General Funds
2. Control of Discharges; Adapt Ordinances and LDRs	Not Available as a Line Item Cost			Negligible Costs
2. Control of Discharges; Basin Planning	\$1,929,953	\$1,929,953	\$1,010,000	Stormwater Fees
3. O & M of Roads; Litter Control	\$75,000	\$80,000	\$80,000	Transportation General Funds & Solid Waste Fees
3. O & M of Roads; Street Sweeping - County	\$3,143,525	\$3,143,525	\$3,143,525	Transportation General Funds
3. O & M of Roads; Street Sweeping - City	\$250,000	\$250,000	\$250,000	Public Works Department
3. O & M of Roads; Catch Basin and Ditch Maintenance	\$1,975,000	\$1,975,000	\$1,975,000	Stormwater Fees
3. O & M of Roads; Pollution Reduction Practices - County	\$2,844	\$2,844	\$2,844	Transportation General Funds

Program Activity	Previous Year (FY 1997)	Current Year (FY 1998)	Future Year (FY 1999)	Funding Source/Comments
3. O & M of Roads; Pollution Reduction Practices - City	\$4,000	\$4,000	\$4,000	Police & Public Works Waste Hauling Costs
4. Flood Control Projects; Basin Plans	\$1,975,000	\$1,975,000	\$11,493,000	Stormwater Capital Improvement Assessments
5. Discharges from Municipal Waste and POTW Facilities - County	Not Available as a Line Item Cost			Utility Fees & Solid Waste Fees
5. Discharges from Municipal Waste & POTW Facilities - City	Not Available as a Line Item Cost			Utility Fees & Solid Waste Fees
6. Pesticides, Herbicides, and Fertilizers; Public Education	\$6,000	\$8,000	\$20,000	Extension Service General Funds
6. Pesticides, Herbicides, and Fertilizers; Employee Training	\$6,000	\$7,000	\$7,000	Stormwater & Transportation & Extension Service General Funds
6. Pesticides, Herbicides, and Fertilizers; Minimize Use and Proper Storage	\$166,608	\$166,608	\$166,608	Stormwater & Transportation & Extension Service General Funds
7a. Illicit Discharges & Disposal; Non-Storm Water Discharges Allowed	Not Available as a Line Item Cost			Included in Cost of Illicit Inspections and Enforcement
7a. Illicit Discharges & Disposal; Inspections and Enforcement	\$355,529	\$355,529	\$460,945	Unincorporated Area Services Funds
7a. Illicit Discharges & Disposal; Amend Ordinances	Not Available as a Line Item Cost			Included in Cost of Illicit Inspections and Enforcement
7b. Illicit Discharges & Disposal; Outfall Inventory & Field Screening	Not Available as a Line Item Cost			Included in Cost of Illicit Inspections and Enforcement
7c. Illicit Discharges & Disposal; Investigate Illicit Connections	Not Available as a Line Item Cost			Included in Cost of Illicit Inspections and Enforcement
7d. Illicit Discharges & Disposal; Spill Response	NA	\$181,940	\$181,940	Landfill Fee Surcharges & Fire Department General Funds
7e. Illicit Discharges & Disposal; Public Reporting of Illicit Discharges	Not Available as a Line Item Cost			Included in Cost of Illicit Inspections and Enforcement
7f. Illicit Discharges & Disposal; Hazardous Waste Collection	\$445,000	\$445,000	\$445,000	Landfill Fee Surcharge
7f. Illicit Discharges & Disposal; Storm Drain Stenciling	Not Available as a Line Item Cost			Costs Included in Letter Control
7g. Illicit Discharges & Disposal; Sanitary Sewer Seepage - County	NA	\$3,800,000	\$3,800,000	Utility Fees

Program Activity	Previous Year (FY 1997)	Current Year (FY 1998)	Future Year (FY 1999)	Funding Source/Comments
7g. Illicit Discharges & Disposal; Sanitary Sewer Seepage - City	NA	\$2,500,000	\$2,500,000	Utility Fees
8a. Industrial and High Risk Runoff; Facility Inspections	Not Available as a Line Item Cost			Included in Cost of Illicit Inspections and Enforcement
8b. Industrial and High Risk Runoff; Monitoring	Not Available as a Line Item Cost			Included in Cost of Illicit Inspections and Enforcement
9a. Construction Site Runoff; Amend Rules & Track Projects	Not Available as a Line Item Cost			Natural Resources & Transportation General Funds
9b. Construction Site Runoff; Inspection and Enforcement	\$56,000	\$56,000	\$56,000	This value is only for Resource Permitting Services inspection costs.
9c. Construction Site Runoff; Site Operator Training & Notification	\$700	\$700	\$1000	Natural Resources General Funds
V.A.1. Seasonal Loadings and Event Mean Concentrations	NA	NA	\$7500	Stormwater Fees
V.A.2. Investigation of Organic Pollutants	NA	NA	\$1000	Stormwater Fees
V.B.1. Existing Monthly Bay and Stream Runs	\$119,941	\$119,941	\$119,941	Unincorporated Area Services Funds
V.B.2. Monitoring in Big Slough, Hudson Bayou & Phillippi Creek Basins	\$28,020	\$28,020	\$28,020	Stormwater Fees
V.B.3. Heavy Metals Monitoring Program in Hudson Bayou, Phase I	NA	\$2020	NA	Stormwater Fees
V.B.4. Heavy Metals Monitoring in Hudson Bayou, Phase II	NA	NA	\$46009	Stormwater Fees
Totals	\$10,575,726	\$17,043,686	\$25,770,529	

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BCC APPROVED 7/28/98

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INTERLOCAL AGREEMENT BETWEEN SARASOTA COUNTY
55 AND THE CITY OF SARASOTA REGARDING TOTAL
CONSOLIDATION OF STORMWATER MANAGEMENT

KAREN E. RUSHING
CLERK OF CIRCUIT COURT
SARASOTA COUNTY, FL

THIS INTERLOCAL AGREEMENT, by and between the City of Sarasota, Florida, a municipal corporation, hereinafter referred to as "CITY," and Sarasota County, a political subdivision of the State of Florida, hereinafter referred to as "COUNTY," dated this 28th day of July, 1998.

WITNESSETH

WHEREAS, CITY and COUNTY entered into an Interlocal Agreement dated September 25, 1990 by which CITY and COUNTY jointly managed stormwater within the municipal limits of CITY and within the unincorporated area of COUNTY through the Stormwater Environmental Utility; and

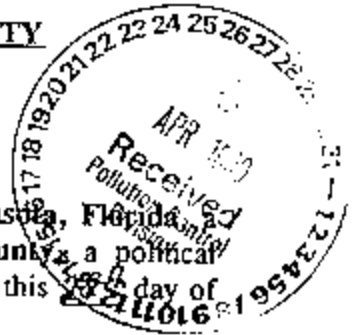
WHEREAS, CITY and COUNTY have determined that, in lieu of joint stormwater management, all stormwater management services should be consolidated under the control of COUNTY.

NOW, THEREFORE, THE PARTIES AGREE TO THE FOLLOWING:

1. The purpose of this Interlocal Agreement is to provide for the total consolidation between CITY and COUNTY of all stormwater management within the municipal limits of CITY and the unincorporated area of COUNTY. All stormwater management shall be under the total and complete control of COUNTY. All Stormwater Management shall be provided by COUNTY, essentially the same within the municipal limits of CITY as in the unincorporated area of COUNTY. Stormwater Management, for the purposes of this Agreement, shall include, but is not limited to each of the following:

(A) basin master planning, addressing the facilities, programs, and management necessary for comprehensive control, treatment, and use of stormwater in any specified drainage basin located wholly or partially within the municipal limits of CITY;

(B) all capital improvements which are non-routine activities necessary to improve the operation of the stormwater system as necessary for collection, conveyance, storage, and treatment of stormwater run-off in any specified drainage basin located wholly or partially



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KARL E. ERUSING
CLERK OF CIRCUIT COURT
SARASOTA COUNTY, FLORIDA

within the municipal limits of CITY. In the event that construction of such capital improvements results in damage to a road surface, repair of such road surface to the conditions that existed prior to such damage shall be performed by COUNTY. The COUNTY'S capital improvement responsibilities shall include, but are not limited to:

(1) easement acquisition and/or research;

(2) design, construction administration, and other necessary services for Stormwater Management projects, including such projects that may be funded, either wholly or partially, by the Florida Department of Transportation.

(C) all maintenance services regarding operating and maintaining the capital improvements for Stormwater Management, including extraordinary maintenance and routine preventative scheduled activities that are conducted to minimize the impact of rainfall and provide a drainage system which allows continuous and unimpeded conveyance of all stormwater runoff within the unincorporated area of COUNTY or the municipal limits of CITY. In the event that repair and maintenance service results in damage to a road surface, repair of such road surface to the conditions that existed prior to such damage shall be performed by COUNTY. In the event any such maintenance services require underground work to be conducted within public rights-of-way located in the municipal limits of CITY, COUNTY shall, at no cost, obtain a right-of-way use permit from CITY in advance of conducting such maintenance services;

(D) all repair services which are non-routine immediate activities necessary to sustain the operation of the stormwater system, as necessary for collection, conveyance, storage, and treatment of all stormwater run-off within the unincorporated area of COUNTY or the municipal limits of CITY. Repair services shall include all emergency infrastructure replacement. In the event that such repair services results in damage to the road surface,

repair of such road surface to the conditions that existed prior to such damage shall be performed by COUNTY. In the event any such non-emergency repair services require underground work to be conducted within public rights-of-way located in the municipal limits of CITY, COUNTY shall obtain a right-of-way use permit, at no cost, from CITY in advance of conducting such maintenance services;

(E) all utility-wide operations regarding the unincorporated area of COUNTY or the municipal limits of CITY which shall include:

- (1) general management and administration;
- (2) general system engineering;
- (3) plan review and inspections through project completion shall be accomplished by having a CITY employee or agent perform these functions and be reimbursed by COUNTY;
- (4) basin planning;
- (5) capital improvement plan development; and
- (6) legal and other consultant services.

(F) all customer and operations services which may be necessary in order to implement any of the Stormwater Management services to be conducted by COUNTY pursuant to this Interlocal Agreement. Customer and operations services shall include the timely handling and responding to all citizen inquiries, public questions, comments, and concerns.

2. N.P.D.E.S. Permit Compliance.

(A) COUNTY, as the Stormwater Management entity for CITY, shall assume all responsibilities as indicated by the National Pollutant Discharge Elimination System (hereinafter N.P.D.E.S.) Permit Stormwater Management Plan (S.W.M.P.) within the scope

of Stormwater Management. The scope of N.P.D.E.S. responsibilities as provided by the Stormwater Environmental Utility shall be essentially the same within the municipal limits of CITY as in the unincorporated area of COUNTY.

(B) Monitoring, being a component of Stormwater Management, shall be accomplished by the COUNTY for the CITY per the requirements of the Stormwater Management Plan (S.W.M.P.) within the N.P.D.E.S. permit requirements.

(C) As the Stormwater Management entity for CITY, COUNTY shall provide the pertinent maintenance, inspection, and monitoring information to CITY on a timely basis, as set forth in the N.P.D.E.S. permit annual report.

(D) COUNTY, as the entity controlling the stormwater system, shall be responsible for generation of the annual report.

(E) CITY shall provide all information pertinent to N.P.D.E.S. permit compliance on a timely basis as needed for the N.P.D.E.S. permit annual report.

(F) In consideration for CITY entering into this Interlocal Agreement, thereby permitting COUNTY total control over the consolidated Stormwater Environmental Utility, COUNTY agrees to be responsible to the United States Environmental Protection Agency for all Stormwater Management matters arising out of the N.P.D.E.S. permit. To the extent permitted by law, COUNTY will hold CITY harmless from any Stormwater Management responsibilities to the United States Environmental Protection Agency arising out of any N.P.D.E.S. permit. This indemnification, however, shall not apply to any responsibilities to the United States Environmental Protection Agency which arise out of responsibilities or actions of the CITY. This section will not be deemed to waive any protection of sovereign immunity or §768.28, Florida Statutes, or any other protection from liability afforded by law to COUNTY.

3. In consideration for CITY entering into this Interlocal Agreement, thereby permitting COUNTY total control over the consolidated Stormwater Environmental Utility, COUNTY covenants to construct the Bahia Vista/Lockwood Ridge Road levee project and include within said project the acquisition, clearing and grading of land, known as Two Lakes Park, for flood plain compensation. The Bahia Vista/Lockwood Ridge Road levee project shall be funded through future assessments for debt services on all real property located within the Phillippi Creek basin. The Bahia Vista/Lockwood Ridge Road levee construction shall be substantially completed by September 30, 2000. COUNTY covenants to construct park amenities at an estimated cost of \$300,000 within Two Lakes Park. COUNTY'S construction of Two Lakes Park shall be substantially completed on or before September 30, 2002. Two Lakes Park shall be constructed without regard to its availability as flood plain compensation and shall be equally funded by CITY and COUNTY parks and recreation fees. CITY covenants to assist COUNTY, as necessary pursuant to the CITY'S park impact fee ordinance, with the development of findings to support the use of park and recreation impact fees collected within CITY for Two Lakes Park.

4. CITY shall be responsible for reviewing, in compliance with CITY'S development review time schedule, all new development projects within the municipal limits of CITY to assure compliance with any and all applicable CITY stormwater control or management regulations. CITY shall be responsible for review and inspection of, and acceptance of, stormwater facilities built in conjunction with any development within the municipal limits of CITY. CITY shall provide necessary personnel to attend, and actively participate in, CITY'S Development Review Committee meetings. CITY shall be reimbursed by COUNTY for the costs incurred providing the services set forth in this section 4, as well as the services set forth in section 1(E)(3), above. This reimbursement shall be made within the first quarter of the fiscal year upon receipt of a CITY invoice in the first month of the fiscal year. The cost of these services shall be the salary and benefits of the one (1) full-time position within the CITY'S Engineering Department responsible for

providing these services. The cost for the fiscal year 1998-1999 shall be \$47,500.00. Reasonable annual adjustments shall be made for the cost in future years and will be determined by CITY on or before March 1 of each year. CITY shall notify COUNTY in writing on or before March 1 of each year of the cost figure for the upcoming fiscal year. If requested by COUNTY, with a 30-day advance notice, CITY shall provide to COUNTY a report listing building permits and certificates of occupancy issued in CITY for the specified period. These reports shall be in either hard copy or electronic media format, and shall contain at least the following information:

- (A) parcel ID
- (B) parcel address
- (C) owner's name and address
- (D) total impervious area
- (E) total parcel area
- (F) number of dwelling units for residential facilities
- (G) tax code
- (H) State code
- (I) permit number and date permit approved.

5. The City Commission of CITY may provide COUNTY advisory comments regarding any Stormwater Environmental Utility projects or services which need to be provided in any specified drainage basin located wholly or partially within the municipal limits of CITY. COUNTY shall in June of each year, present to the City Commission of CITY the current status of the Stormwater Management program. COUNTY shall formally present the CITY'S comments to the Board of County Commissioners for serious consideration prior to the adoption of the annual Stormwater Environmental Utility budget.

6. The City Commission of CITY shall appoint two residents of CITY as members of the COUNTY'S Stormwater Environmental Advisory Committee. COUNTY shall support regular

meetings of the Advisory Committee and encourage the Committee's role in fulfilling its responsibilities as defined in Sarasota County Ordinance No. 94-066, as amended.

7. CITY hereby grants to COUNTY permission to enter upon and use, for the purposes expressed in this Agreement, those rights-of-way and easements upon which stormwater facilities within the municipal limits of CITY are located. This grant of authority, however, is subject to the COUNTY'S obligation to obtain a right-of-way use permit when required pursuant to Section 1(C) or 1(D) of this Agreement.

8. CITY and COUNTY hereby amend section 10 of the September 25, 1990 Interlocal Agreement on Consolidation of Stormwater Management within the City of Sarasota to add the following sentence at the end of the existing section 10.A.: "The parties may, at any time, terminate this Agreement by mutual consent."

9. This Interlocal Agreement shall be effective upon approval by the Board of County Commissioners of COUNTY and the City Commission of CITY, the full execution of the Interlocal Agreement by each party and upon filing of this Agreement with the Sarasota County Clerk of the Circuit Court, in compliance with Section 163.01(11), Florida Statutes (1997). This Agreement shall also be filed with the City Auditor and Clerk of the City of Sarasota. In consideration for the mutual covenants and conditions in this Agreement, CITY and COUNTY hereby terminate the previous Interlocal Agreement dated September 25, 1990. Such termination shall become effective simultaneous with this Agreement becoming effective. This Agreement shall remain in effect so long as stormwater assessments are pledged as a security for the indebtedness of Sarasota County. Either party may terminate this Agreement upon thirty days' written notice to the other party if COUNTY has no outstanding debt for which stormwater assessments have been pledged. This termination provision cannot be exercised by either party before September 30, 1999.

10. Upon the effective date of this Interlocal Agreement, CITY hereby approves COUNTY Ordinance No. 94-066, as amended and as may be amended, and makes a finding that said Ordinance

and Resolutions adopted pursuant to it are not in conflict with any CITY ordinances, resolutions or regulations. CITY specifically authorizes COUNTY to apply said Ordinance, as amended and as may be amended, and any Resolutions adopted pursuant to said Ordinance within the municipal limits of CITY and specifically authorizes COUNTY to assess any real property located within the municipal limits of CITY in accordance with said Ordinance.

11. Notwithstanding anything herein to the contrary, the COUNTY shall have the absolute right to levy Stormwater Improvement Assessments on properties located within the CITY in accordance with the COUNTY'S stormwater assessment methodology. Such right shall not be abridged or contested in any manner as a result of any dispute arising between the parties hereto; provided, however, that the COUNTY acknowledges that the CITY shall be permitted to provide input regarding the advisability of any capital improvement or maintenance project, the cost of such project, and the number of and amount of assessments necessary to fund such project. The parties acknowledge that payment of obligations issued by the COUNTY which are secured by Stormwater Improvement Assessments shall be the paramount purpose of this Interlocal Agreement. This agreement shall supersede any other agreements between the CITY and the COUNTY and any ordinances and resolutions that have been or may be adopted by CITY relating to the calculation, levy and collection of Stormwater Improvement Assessments to the extent that the terms and provisions of any other such agreements, ordinances and resolutions conflict with the terms and provisions of this agreement. The CITY and the COUNTY agree that the holders of any obligations issued by the COUNTY to fund the stormwater improvements which are secured in whole or in part from moneys derived from Stormwater Improvement Assessments shall be beneficiaries hereof and as such holders may enforce the provisions hereof.

12. It is hereby agreed that no modifications, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in the written amendment to this

Agreement and duly executed with the same formality and of equal dignity herewith by CITY and COUNTY.

13. The parties agree that by execution of this Agreement, no party will be deemed to have waived its statutory defense of sovereign immunity, or increased its limits of liability as provided for in Sec. 768.28, Florida Statutes. COUNTY shall hold CITY harmless, and indemnify CITY from COUNTY'S negligent acts or omissions to include the acts or omissions of COUNTY'S employees or agents, with respect to COUNTY'S performance under this Interlocal Agreement. CITY shall hold COUNTY harmless, and indemnify COUNTY from CITY'S negligent acts or omissions, to include the acts or omissions of CITY'S employees or agents, with respect to CITY'S performance under this Interlocal Agreement.

14. CITY represents to COUNTY that the execution and delivery of this Agreement has been duly authorized by appropriate action of the Governing Body of CITY, has been executed and delivered by an authorized official of CITY, and constitutes a legal, valid and binding obligation of CITY. COUNTY represents to CITY that the execution of this Agreement has been duly authorized by all appropriate actions of the Governing Body of COUNTY, has been duly executed and delivered by an authorized official of COUNTY, and constitutes a legal, valid and binding obligation of COUNTY.

IN WITNESS WHEREOF, CITY and COUNTY have hereto set their hands and seals on the date and year indicated.

CITY OF SARASOTA

ATTEST:

Billy E. Robinson
City Auditor and Clerk

By: Jerome Dupree
Jerome Dupree, Mayor

SARASOTA COUNTY, FLORIDA

By: David E. Mills
David Mills, Chairman
Board of County Commissioners

Attest:

Karen E. Rushing
Clerk of the Circuit Court
and Ex-Officio Clerk of the
Board of County Commissioners
of Sarasota County, Florida

By: Sue Garland
Deputy Clerk

Approved as to form and correctness:

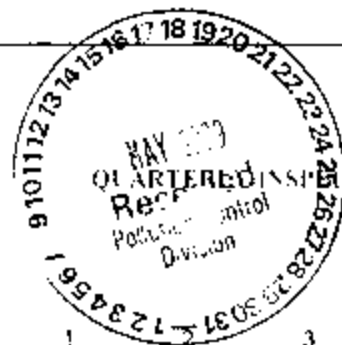
Richard J. Taylor
Richard J. Taylor, City Attorney

Approved as to form and correctness:

Jorge L. Fernandez
Jorge L. Fernandez, County Attorney

cityatty/mac/wm/agnus/storm.wtr/7/13/98

WEIR #	LOCATION	TYPE OF CONSTRUCTION	BOARD SIZE	PIPE SIZE	CANAL LOCATION	CONDITION OF WEIR	ACCESS	PHOTOGRAPHS	1	2	3	4
CW3-01	University Pkwy - DeSoto Rd - RNR	CONCRETE			CDP3-9	G		X	10/3/97	12/98		
W3-31	Honore Av. & Desoto Rd	CONCRETE			DP3-31	G		X	10/3/97	15/98		
W5-01	End of Del Sol Bv - So. Past Griffin Cir	CONCRETE			3-15	G		X	10/3/97	15/98		
W5-02	DeSoto Road - Ravenwood Outlet	SOIL CEMENT + CONCRETE			13-42	F	X	X	10/3/97	15/98		
W5-03	End Of Del Sol Bv - So. Past Griffin Cir	CONCRETE			3-14B	G		X	10/3/97	15/98		
W6-01	West Of I-75 - Metro Lake Inlet	CONCRETE			3-42	New	X	X	10/3/97	15/98		
W6-02	Outlet Of Metro Lake - 3-42	CONCRETE			3-42	New	X	X	10/3/97	15/98		
CW15-03	Lake Ridge Outlet - Lockwood Ridge Rd.	CONCRETE			13-27	G	X	X	10/2/97	12/98		
CW15-04	Lockwood Ridge R/W S/W of Fruitville	CONCRETE			C4-85	F	X	X	10/2/97	12/98		
CW15-05	Mote At Sara - High School Canal	CONCRETE			C4-51	F	X	X	10/2/97	12/98		
W16-01	McIntosh Middle School Rd. & 4-95 West	CONCRETE			4-95	F	X	X		15/98		
W16-02	McIntosh Middle School Rd. & 4-92 East	CONCRETE			4-92	F	X	X		15/98		
W17-05	Richardson Rd. & North Cattlemen Rd	CONCRETE			4-45	New	X	X		15/98		
W17-06	Deer Hollow Outlet - Richardson Rd	CONCRETE			4-45	G	X	X	10/6/97	15/98		
W17-07	Fruitville Rd - Coburn Rd - Removed	CONCRETE	NI		6-119	G	X	X	10/6/97			
W17-08	Coburn Rd - Sawgrass @ Bridge	CONCRETE			6-136	G	X	X	10/6/97	15/98		



FY '97-98 weir inspections

WEIR #	LOCATION	TYPE OF CONSTRUCTION	BOARD SIZE	PIPE SIZE	CANAL LOCATION	CONDITION OF WEIR	ACCESS	PHOTOGRAPHS	QUARTERLY INSPECTIONS			
									1	2	3	4
W17-09	Apex Rd. & Palmer Blvd	CONCRETE			6-119	G	X	X	10-6-97	1-5-98		
CW17-10	Fruitville Rd. - Bobby Jones Rd	CONCRETE			04-56	F	X	X	10-2-97	1-2-98		
W17-11	Prado Dr. - 3-15	CONCRETE			3-16	G	X	X	10-7-97	1-5-98		
W17-12	Bahia Vista St. & 4-86 - South	CONCRETE			4-86	G	X	X	10-3-97	1-5-98		
W17-13	Bahia Vista St. & 4-86 - North	CONCRETE			4-86	G	X	X	10-3-97	1-5-98		
W17-14	10-185 & Proctor Rd. - East	CONCRETE			10-185	G	X	X	10-3-97	1-6-98		
W17-15	10-185 & Proctor Rd. - West	ROCK			10-185	F	X	X	10-3-97	1-6-98		
CW17-16	Bahia Vista St. - Lockwood Ridge Rd	CONCRETE - BRICK			CR15-15	F	X	X	10-2-97	1-2-98		
W17-17	Bee Ridge Rd. - Sawyer Rd. - North	CONCRETE			Rd. Side	F	X	X	10-3-97	1-6-98		
W17-18	Bee Ridge Rd. - Sawyer Rd. - South	CONCRETE			Rd. Side	F	X	X	10-3-97	1-6-98		
W18-19	Palmer & DeBreenen Canal	CONCRETE	3.5"x12"		6-114	B		X	10-6-97	1-6-98		
			3.5"x8"									
CW25-11	Arlington Park - Hyde Park St	CONCRETE	125"		04-57	G	X	X	10-2-97	1-2-98		
W25-12	Grove St & Brink - Philipps Creek	CONCRETE			4-66	F		X	10-6-97	1-6-98		
W25-13	Tanglewood - Rose St. - Philipps Cr	CONCRETE			1-62	B		X	10-1-97	1-6-98		
W25-14	South Gate Cir. - Philipps Creek	CONCRETE			4-58	F		X	10-6-97	1-6-98		
W25-15	Bermuda Brook at Tuttle Avenue	CONCRETE	36"		1-4-2	G	X	X	10-6-97	1-6-98		

G - GOOD
F - FAIR
B - BAD
M - MULTIPLE DEFECTS

10

10-11-98
10-11-98

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Page 10

$$h = \inf_{\substack{f \in \mathcal{H}_1 \\ \|f\|_{\mathcal{H}_1} = 1}} \inf_{\substack{g \in \mathcal{H}_2 \\ \|g\|_{\mathcal{H}_2} = 1}} \langle f, g \rangle_{\mathcal{H}_1 \otimes \mathcal{H}_2}.$$

FY '97-98 weir inspections

WEIR #	LOCATION	TYPE OF CONSTRUCTION	BOARD SIZE	PIPE SIZE	CANAL LOCATION	CONDITION OF WEIR	ACCESS	PHOTOGRAPHS	QUARTERLY INSPECTIONS			
									1	2	3	4
W28-25	Hidden Glen - Bee Ridge Rd	CONCRETE			12-143	G		X	10-7-97	1-7-98		
W28-26	Mauna Loa Bx - East & 12-143	CONCRETE			12-143	G	X	X	10-7-97	1-7-98		
W28-27	Silver Fern Bx - Forestwood Trail	CONCRETE			Private	F	X	X	10-7-97	1-7-98		
W34-26	Dunham Branch - South Tamiami Tr	CONCRETE		24"	11-199	G	X	X	10-7-97	1-8-98		
W34-27	Matheny Creek - South Tamiami Tr	CONCRETE			10-198	F	X	X	10-7-97	1-8-98		
W34-28	Pinehurst & Dale & 11-118	CONCRETE			111-118	G	X	X	10-7-97	1-8-98		
W34-29	6527 Waterford Cir & Beneva Rd	CONCRETE		36"	10-199	G	X	X	10-7-97	1-8-98		
W35-29	Gulf Gate East - Kingston Bx	CONCRETE			10-199A	F	X	X	10-7-97	1-8-98		
W35-30	Palmer Ranch #1 - So. McIntosh Rd. - Ne	CONCRETE			10-200	G	X	X	10-7-97	1-8-98		
W35-31	Palmer Ranch #2 - So. McIntosh Rd. - So	CONCRETE			10-200	G	X	X	10-7-97	1-8-98		
W35-32	Westford Ln - Beneva Rd	ALUMINUM			10-198	G	X	X	10-7-97	1-8-98		
W35-33	Cariss Ave. - Beneva Road	CONCRETE			DP11-1	G	X	X	10-7-97	1-8-98		
W35-34	Tuckerstown - Baltimore Dr	METAL			111-118	F	X	X	10-7-97	1-8-98		
W35-35	Eugene Street - Beneva RD	ALUMINUM			11-212	G	X	X	10-7-97	1-8-98		
W35-36	Sarasota Square Bx - Deer Creek Bx	CONCRETE			11-200	G	X	X	10-8-97	1-8-98		
W35-37	Pelican Cove - Clower Creek Dr. #1	CONCRETE			11-212	F		X	10-8-97	1-8-98		

FY '97-'98 weir inspections

WEIR #	LOCATION	TYPE OF CONSTRUCTION	BOARD SIZE	PIPE SIZE	CANAL LOCATION	CONDITION OF WEIR	ACCESS	PHOTOGRAPHS	QUARTERLY INSPECTIONS			
									1	2	3	4
W35-38	Pelican Cove - Clower Creek Dr. #2	CONCRETE			11-213	F		X	10/8/97	1/8/98		
W37-39	Cowpen Slough #2 - Alhilton Grove	CONCRETE			13-128	F		X	10/8/97	1/7/98		
W43-40	Central Sarasota Pkwy - So McIntosh	CONCRETE			11-214	G	X	X	10/8/97	1/8/98		
W43-41	Central Sarasota Pkwy - So McIntosh	CONCRETE			11-214	G	X	X	10/8/97	1/8/98		
W55-42	Cowpen Slough #1 - King Arthur Dr. Wes	CONCRETE			18-128	G	X	X	10/8/97	1/9/98		
W64-41	Laurel Rd. - 19-289 - CH19-122	CONCRETE			19-289	G		X	10/8/97	1/9/98		
W64-43	Waterford - Pinebrook Rd. Private	CONCRETE			27-342	G	X	X	10/8/97	1/9/98		
W64-44	Pinebrook Way - Featherbed Ln	ROCKS			27-331	G	X	X	10/8/97	1/9/98		
W64-45	Capri Isles - Brulte Oaks - City Owned	CONCRETE			Private	G		X	10/8/97	1/9/98		
W71-46	East Village Drive - Venice East Bv. - Pri.	CONCRETE			Private	B		X	10/8/97	1/9/98		
W71-47	East Village Drive - Venice East Bv. - Pri.	CONCRETE			Private	G		X	10/8/97	1/9/98		
W71-48	Country Club Dr. & Sklar Dr.	CONCRETE			McNeary	G		X	10/8/97	1/9/98		
W71-49	28-375 & L28-60 - Venice East	CONCRETE	8x12'x1'		28-375	F	X	X		1/9/98		
W71-50	28-375 & L28-60 - Venice East	CONCRETE	8x12'x1'		28-375	F	X	X		1/9/98		
W76-51	Pierce Rd. & Manasseta Beach Rd	ROCK			35-452A	F	X	X		1/9/98		
W81-49	Englewood Isles Outlet - Windsor Dr	CONCRETE			L35-13	G		X	10/8/97	1/9/98		

F - FAIR
 B - BAD
 M - MULTIPLE - BOARDS

WEIR #	LOCATION	TYPE OF CONSTRUCTION	BOARD SIZE	PIPE SIZE	CANAL LOCATION	CONDITION OF WEIR	ACCESS	PHOTOGRAPHS	QUARTERLY INSPECTIONS			
									1	2	3	4
W81-50	Jacaranda Subdivision - Sklar Dr	METAL			28-380	G	X	X	12-8-97	1-9-98		
W81-51	Jacaranda Bv - 28-375A	CONCRETE			28-375A	G	X	X	10-8-97	1-9-98		3
W81-52	Medford Ln - Village Green Dr	ROCK			4-62A	G	X	X	10-8-97	1-6-98		15
W81-53	University Pkwy - Sarasota RV Pkwy	WOOD			DP3-14	M-G	X	X	10-8-97	1-6-98		6
W81-54	Knights Tr Rd - DP19-28	CONCRETE	8'x8.5'		DP19-28	G	X	X	12-8-97	1-9-98		14
W81-55	Proctor Rd - DP10-7	CONCRETE			DP10-7	G	X	X	12-8-97	1-7-98		16
W81-56	1704 Kestral Park Dr	CONCRETE PIPE			Private	Replacing		X	10-8-97	1-9-98		16
W81-57	4844 Peregrine Point Cir North	CONCRETE			Private	Replacing		X	10-8-97	1-9-98		11
CW81-58	North Brink Av - DP4-16	CONCRETE			CDP4-16	G	X	X	10-2-97	1-2-98		88
W81-59	1-75 - 19-281	CONCRETE			18-281	G	X	X	10-8-97	1-9-98		
W81-04	Pine St. & River Rd	CONCRETE		10"	DP38-03	New	X	X		1-9-98		
TOTAL = 91												

1. 1980-1981

TOTAL CASH VALUES
MAINTENANCE

9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

DATE

LAST MAINTENANCE

MAINTENANCE

RECEIVED

NOV 19 1961

U.S. DEPARTMENT OF AGRICULTURE

WASHINGTON, D.C.

2010年11月11日

For more information, please contact:

CANAL INVENTORY

CANAL I.D.	FROM	TO	CITY	RAW PROBLEMS	ACCESS PROBLEMS	EASMENT PROBLEMS	ACCESS	ROW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I.D.	SLOPE WIDTH (FEET)	SLOPE ACRES MAINTAINED	ONE SLOPE	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TAW WIDTH (FT)	TAW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SPECIFICATION PAGE	NEXT MAINTENANCE DATE	PAST MAINTENANCE DATE
C3-20	1000 S	Bridge Ln	X		X	X					750	750	1	5	2.73		2.73	30	1	1	100	X	X	8.06	2.17.99	
C3-20	1000 S	Spur St	X		X	X					750	750	1	5	2.42		2.42	30	1	1	100	X	X	8.09	2.17.99	
C3-2.17	1000 S	Acqueduct St	X		X	X					600	600	1	5	1.14		1.14	30	1	1	100	X	X			
C3-2.18	1000 S	27th St	X		X	X					750	750	1	5	1.15		1.15	30	1	1	100	X	X			
C3-2.19	1000 S	28th St	X		X	X					750	750	1	5	1.15		1.15	30	1	1	100	X	X	8.09	2.17.99	
C3-24	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X	2.95		
C3-25	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-26	1000 S	1000 S	X	X	X						1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-27	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-28	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X	X					1000	1000	1	5	1.14		1.14	30	1	1	100	X	X			
C3-29	1000 S	1000 S	X		X																					

* = Significant at the 5% level of probability.

City: CHICAGO

EMAIL: MATH@ZIMBABWE.COM

14C = 1:6bD 1:1 F 25/52:

NOV 19 1961

4. M. J. L. N. Y. GOWING C. C. A.

A = ANNUALLY
B = EVERY TWO YEARS
C = EVERY THREE YEARS
D = QUARTERLY
M = MONTHLY

File: sensha-revised
C:\mcclellm\w\p

CANAL INVENTORY

CANAL ID	FROM	TO	CITY	ROW PROBLEMS	ACCESS PROBLEMS	EASMENT PROBLEMS	ACCESS	ROW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FEET)	TOTAL LENGTH (FEET)	BASIN ID	SLOPE WIDTH (P-F)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	T-W WIDTH (P-F)	T-W ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SHEET PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
C18-10	SW corner of 25th St	Western Rink N. S. S. S. S.	X				X				733	185	1	12	0.7	0.34	17	0.29	0.7	MW	M	X	83		
C18-11	Orange Ave	Orange Ave N. S. S. S. S.	X				X	X			679	187	1	5	0.1	0.05	3	0.13	0.1	MW	M	X	8		
C18-12	17th St	Orange Ave	X				X	X			871	871	1	5	0.1	0.05	3	0.2	0.1	MW	M	X	8		
C23-12	SW corner of 1st and 2nd	Grand Rink N. S. S. S.	X				X	X	X		38	654	2	12	0.7	0.34	21	0.64	0.8	MW	M	X	8		
C26-10	Brick Ave	Brick Ave	X				X	X			1098	1044	4	4	0.2	0.24	21	0.5	0.24	MW	M	X	8		
C26-11	Brick Ave	Brick Ave	X				X	X			34		1	4	0.2	0.12	18	0.26	0.5	MW	M	X	8		
C26-13	Brick Ave	Brick Ave	X				X	X			187		4	8	0.4	0.3	16	0.41	0.7	MW	M	X	8		
C26-13	Brick Ave	Brick Ave	X				X	X			433		4	18	0.28	0.17	16	0.57	0.7	MW	M	X	8		
C31-15	1st St	Orange Ave	X				X	X			57	250	2	5	0.06	0.18	19	0.22	0.2	MW	M	X	8		
C31-15	Orange Ave	Orange Ave	X				X	X			213		2	10	0.05	0.1	29	0.1	0.1	MW	M	X	8		
C31-15	SW corner of Orange Ave	East of Orange Ave	X				X				141		2	5	0.6	0.1	17	0.22	0.4	MW	M	X	8		
C32-13	Orange Ave	Orange Ave	X				X	X			787	685	2	20	0.28	0.36	21	0.82	0.8	MW	M	X	8		
C32-13	SW corner of 1st and 2nd	SW corner of 1st and 2nd	X				X				876		2	20	0.8	0.16	1	0.94	0.1	MW	M	X	8		
C32-13	1st Ave	SW corner of 1st and 2nd	X				X				1066		2	6	0.16	0.35	16	0.51	0.2	MW	M	X	8		
C33-13	SW corner of 1st and 2nd	SW corner of 1st and 2nd	X				X	X			1136	196	4	5	0.17	0.39	15	0.57	0.2	MW	M	X	8		
C33-13	SW corner of 1st and 2nd	Orange Ave	X				X				137	1329	1	6	0.1	0.07		0.1	0.1	MW	M	X	8		8/25/99
C33-13A	Orange Ave	Orange Ave	X				X				8	165	5	6	0.1	0.6	29	0.36	0.4	MW	M	X	8		
C41-16	Orange Ave	Orange Ave	X				X	X			761	761	1	2	0.2	0.44	5	0.1	0.1	MW	M	X	8		
C41-16	Orange Ave	Orange Ave	X				X	X			808	897	1	12	0.22	0.44		0.1	0.1	MW	M	X	8		8/25/99
C41-17	SW corner of 1st and 2nd	SW corner of 1st and 2nd	X				X	X			558	558	2	10	0.1	0.1	17	0.22	0.1	MW	M	X	8		
C42-11	Orange Ave	Orange Ave	X				X				686	686	3	7	0.1	0.22	15	0.34	0.1	MW	M	X	8		
C42-11	Orange Ave	Orange Ave	X				X				120	76	3	7	0.1	0.29	16	0.29	0.5	MW	M	X	8		
C43-12	Orange Ave	Orange Ave	X				X				68	68	1	6	0.1	0.1	4	0.06	0.1	MW	M	X	8		
C44-10	Orange Ave	Orange Ave	X				X				1	6	27	10	0.1	0.27		0.1	0.1	MW	M	X	8		8/25/99
C44-1	Orange Ave	Orange Ave	X				X	X			576	576	1	3	0.1	0.1	1	0.1	0.1	MW	M	X	8		
C45-1	Orange Ave	Orange Ave	X				X	X			112	112	1	4	0.1	0.1		0.1	0.1	MW	M	X	8		
C45-2	Orange Ave	Orange Ave	X				X	X			108	108	1	5	0.1	0.1	26	0.07	0.1	MW	M	X	8		
C45-4	Orange Ave	Orange Ave	X				X	X			132	132	5	6	0.1	0.1		0.1	0.1	MW	M	X	8		
C45-5	Orange Ave	Orange Ave	X				X	X			141	141	1	7	0.1	0.1	7	0.11	0.1	MW	M	X	8		
C45-6	Orange Ave	Orange Ave	X				X	X			113	113	1	6	0.1	0.1	5	0.12	0.1	MW	M	X	8		
C45-7	Orange Ave	Orange Ave	X				X	X			124	124	1	4	0.1	0.1	4	0.17	0.1	MW	M	X	8		
C45-8	Orange Ave	Orange Ave	X				X	X			159	159	1	4	0.1	0.1	12	0.17	0.1	MW	M	X	8		

1 = SLOPE WIDTH FOR ONE SLOPE
P-C = PRISON CREW
M-M = MENZ MOWING
H-C = HAND CLEANING
M-W = CONTRACT MOWING
C-M = COUNTY MOWING CREW

A = ONCE A YEAR
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

City of Harrisburg, PA 17104

CANAL INVENTORY

CANAL I.D.	FROM	TO	CITY	ROW PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	ACCESS	ROW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I.D.	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TAW WIDTH (FT)	TAW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
CR3-13	Chas. Dr. 2nd St.	East to Lerner 12nd St. side	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
CR3-14	Chas. Dr. 2nd St.	S.W. corner E. 1st St.	N								626	626	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-9	East to Lerner 12nd St.	East to Lerner 12nd St.	N								198	198	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-10	Wagoner Ave. 12th St.	West side of Wagoner Ave.	N								886	886	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-11	Wagoner Ave. 12th St.	North to S.W. corner	N								278	278	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-11	Wagoner Ave. 12th St.	Lockwood Ridge and North	N								376	376	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-15	Dodge Ave. 12th St.	East side of Dodge Ave.	N								166	166	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-16	Dodge Ave. 12th St.	West to Market 12th St.	N								426	426	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-18	North to Lerner 12th St.	North to Lerner 12th St.	N								286	286	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-19	Dodge Ave. 12th St.	Dodge Ave. 12th St. 1st St.	N								266	266	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-20	Dodge Ave. 12th St.	Dodge Ave. 12th St.	N								476	476	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-21	Dodge Ave. 12th St.	North to Lerner 12th St.	N								286	286	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-22	Dodge Ave. 12th St.	Dodge Ave. 12th St.	N								176	176	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-23	Dodge Ave. 12th St.	North to Lerner 12th St.	N								366	366	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-24	Dodge Ave. 12th St.	Dodge Ave. 12th St.	N								626	626	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-25	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-26	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
CR15-27	Dodge Ave. 12th St.	North to Lerner 12th St.	N								366	366	1	1	0.00	0.00	0.00	0	0	MA	1				
CR16-17	Dodge Ave. 12th St.	North to Lerner 12th St.	N								476	476	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								1616	1616	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								486	486	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								76	76	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								206	206	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								266	266	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								112	112	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								476	476	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				
3-5	Dodge Ave. 12th St.	North to Lerner 12th St.	N								276	276	1	1	0.00	0.00	0.00	0	0	MA	1				

A = 1 YEAR
B = 2 YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANA INVENTORY

Trust@knightexcel.com\mccrill, jls

CANAL I.D.	FROM	TO	CITY	RAW PROBLEMS ACCESS PROBLEMS EASMENT PROBLEMS	ACCESS	RAW	EASMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I.D.	SLOPE WIDTH (FT)*	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	T/W WIDTH (FT)	T/W ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	NO. THOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	PAST MAINTENANCE DATE
3-5A.2	4th St	1st St			X	X			75	75	1	17	1.17	0.54			1.71	1			21		
3-5A.3	1st St	1st St			X	X			45	45	1	13	1	0.5			0.5	1			22		
3-5B	1st St	Down Rd		X	X	X			120	120	1	16	1.6	1.5			3.1	1			23	3-1-95	
3-5C	Down Rd	Commerce Place					X		210	210	1	15	1	0.5			0.5	1			24	3-1-95	
3-5C.1	Down Rd	5th St					X		150	150	1	12	1.2	1.2			2.4	1			25		
3-5C.2	5th St	Commerce Place					X		100	100	1	11	1	0.5			0.5	1			26		
3-5D	12th St	State St		X	X				100	100	1	13	1	1.7			1.7	1		X	27	3-99	6-17-98
3-5F	1st St	State St			X		X		150	150	1	12	1.2	1.2			2.4	1		X	28	3-99	6-17-98
3-5H	1st St	Commerce Pl.			X		X		200	200	1	15	1.5	1.5			3.0	1		X	29	3-99	6-17-98
3-5G	1st St	Down Rd		X					170	170	1	16	1.6	1.6			3.2	1			30		
3-5G.1	1st St	Mobile St		X					100	100	1	10	1.0	1.0			2.0	1			31		
3-5G.2	Mobile St	State St		X					100	100	1	10	1.0	1.0			2.0	1			32		
3-5G.3	State St	Down Rd		X					100	100	1	10	1.0	1.0			2.0	1			33		
3-5G.4	Down Rd	State St		X					100	100	1	10	1.0	1.0			2.0	1			34		
3-5I.5	4th St	Down Rd		X					100	100	1	10	1.0	1.0			2.0	1			35		
3-6	1st St	State St		X	X				200	200	1	15	1.5	1.5			3.0	1		X	36	10-99	11-19-98
3-7	Independence Ct	Independence Ct			X				100	100	1	11.5	1.15	1.15			2.3	1			37	8-24	11-98
3-7	Independence Ct	Independence Ct			X	X			200	200	1	12	1.2	1.2			2.4	1			38	8-24	
3-7	Independence Rd	Mobile St			X	X	X		100	100	1	11.5	1.15	1.15			2.3	1			39	8-24	
3-7	Commerce Pl.	2nd St			X	X			100	100	1	11	1.1	1.1			2.2	1			40	8-24	
3-7	1st St	Commerce Pl.			X	X	X		100	100	1	11	1.1	1.1			2.2	1			41	8-24	
3-7	Commerce Pl.	2nd St		X			X	X	100	100	1	11	1.1	1.1			2.2	1			42	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			43	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			44	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			45	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			46	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			47	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			48	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			49	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			50	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			51	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			52	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			53	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			54	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			55	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			56	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			57	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			58	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			59	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			60	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			61	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			62	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			63	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			64	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			65	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			66	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			67	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			68	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			69	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			70	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			71	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			72	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			73	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			74	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			75	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			76	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			77	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			78	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			79	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			80	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			81	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			82	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			83	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			84	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			85	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			86	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			87	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			88	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			89	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			90	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			91	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			92	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			93	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			94	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			95	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			96	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			97	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1			98	8-24	
3-7	Commerce Pl.	2nd St			X		X	X	100	100	1	11	1.1	1.1			2.2	1					

A = ONCE A YEAR
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

4/10/2016 10:42:10 AM

CANAL INVENTORY

CANAL I.D.	FROM	TO	CITY	RAW PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	ACCESS	RAW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I.D.	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TAN WIDTH (FT)	TAN ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SHEET PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
3-11	1st St. W. Main St. Bridge	Lockwood Ridge Rd.					X	X			200	200	1	12.5	0.0	1.0			1.0	0.1		X		11-99	12-4-98
3-11	1st St. W. Main St. Bridge	Lockwood Ridge Rd.									200	200	1	8	0.0	0.0		0.0	0.0	0.0					
3-11	Run out of Dr.	Lockwood Ridge Rd.	X				X		X		200	200	1	12.5	0.0	1.0			1.0	0.1					
3-11	Lockwood Ridge	1st St. W. Main St.					X		X		1200	1200	4	24.0	0.0	1.0			1.0	0.1		X		11-99	12-4-98
3-14	1st St. W. Main St.	1st St. W. Main St.					X	X			450	450	4	18	0.0	0.0		0.0	0.0	0.0		X		11-99	12-4-98
3-14B	1st St. W. Main St.	1st St. W. Main St.		X					X		100	100	4	16	0.0	0.0			0.0	0.0				12-99	12-4-98
3-15	1st St. W. Main St.	University Blvd.					X	X			400	400	4	16	0.0	0.0			0.0	0.0		X		11-99	12-4-98
3-16	1st St. W. Main St.	University Blvd.					X	X			1500	1500	4	16	0.0	0.0			0.0	0.0		X		12-00	2-5-99
3-16	1st St. W. Main St.	University Blvd.	X				X	X	X		1000	1000	4	16	0.0	0.0			0.0	0.0		X		12-00	2-5-99
3-17	1st St. W. Main St.	1st St. W. Main St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0					01
3-17	1st St. W. Main St.	1st St. W. Main St.	X				X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		8-97	
3-18	1st St. W. Main St.	1st St. W. Main St.	X				X	X			1000	1000	4	16	0.0	0.0			0.0	0.0				7-98	02
3-19	1st St. W. Main St.	1st St. W. Main St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		12-99	3-6-99
3-19A	1st St. W. Main St.	1st St. W. Main St.					X	X			400	400	4	16	0.0	0.0			0.0	0.0				2-99	
3-20	1st St. W. Main St.	Douglas St. Behind House					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0				7-98	02
3-21	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		12-99	1-5-99
3-21	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0					
3-22	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		12-99	1-5-99
3-22	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0					
3-23	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0				10-98	02
3-24	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X			02
3-24	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0					
3-25	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		12-90	2-5-99
3-25	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X			
3-26	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		12-98	02
3-26	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0					
3-27	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		1-00	2-5-99
3-27	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0					
3-28	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		1-00	2-5-99
3-28	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0					
3-29	1st St. W. Main St.	Douglas St.					X	X			1000	1000	4	16	0.0	0.0			0.0	0.0		X		1-00	2-5-99

* SLOPE WIDTH FOR ONE SLOPE

PC = PRISON CREW

CMW = CITY MAINT

MM = MENDIOWING

MC = MENDING CLEANING

MW = MENDING MAINT

CMC = CITY MAINT CREW

^aN₂, 50.9 g/h; O₂, 68.7 g/h.

CANAL INVENTORY

CANAL I.D.	FROM	TO	CITY	ROW PROBLEMS	ACCESS PROBLEMS	EASMT PROBLEMS	ACCESS	ICW	CASEMENT	NON-MAINTAINED	WORKLENGTH (Ft)	TOTAL LENGTH (Ft)	BASIN I.D.	SLOPE WIDTH (Ft)	SLOPE ACRES MAINTAINED	TOPE SLOPE	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TOW WIDTH (Ft)	TOW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SPECIFICATION PAGE	NEXT MAINTENANCE DATE	PAST MAINTENANCE DATE
3-30	Hwy 1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-31	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-32	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-33	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-34	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-35	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-35A	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-35B	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-35C	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-36	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-37	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-37A	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-37B	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-37C	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-38	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-38A	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-39	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-40	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-41	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-41A	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-42	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-43	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-44	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-45	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-46	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-47	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-48	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-49	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-50	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-51	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-52	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-53	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-54	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-55	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-56	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-57	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-58	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-59	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-60	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-61	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-62	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-63	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-64	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-65	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-66	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-67	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-68	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-69	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-70	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-71	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-72	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-73	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-74	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-75	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-76	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-77	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-78	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-79	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-80	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-81	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-82	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-83	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-84	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-85	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-86	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-87	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-88	1000 Rd	1000 Rd					X	X			1000	1000	4	10	10	10	10	10		10	10	10	10	10	10	10
3-89	1000 Rd	1000 Rd					X	X			1000	1000	4													

* SLOPE WITHIN FOR ONE SLOPE
 PIC = PIPES CREW
 MM = MENZ MOVING
 HC = HAND CLEANING
 RM = ROSS REACT MOVING
 MC = MOUNTAIN MOVING CREW

A = ONCE A YEAR
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

(User share/excel spreadsheet only)

CANAL INVENTORY

CANAL I.D.	FROM	TO	CITY	R/W PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	R/W ACCESS	EASEMENT	NON-MAINTAINED	WORK LENGTH	IFT	TOTAL LENGTH	IFT	BASIN I.D.	SLOPE WIDTH	SLOPE ACRES	MAINTAINED	(ONE SLOPE)	SLOPE ACRES	MAINTAINED	(BOTH SLOPES)	LAW WIDTH	IFT	FW ACRES	MAINTAINED	TOTAL CANAL ACRES	MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION	PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE	
4-46	6-115-47 N. Rd	6-115-47 N. Rd								418	4	27	192		264	27	274										SW	2	X	17					
4-46	175- Bruce Rd	244- Franklin Rd								310	4	2	181		32	2	2										SW	2		18					
4-47	144- Hume Av	8- Shawnee Rd			X	X				240	20	4	20		22												SW	2		19			12-00	12-00-00	
4-48	144- Hume Av	Harriet St			X	X				165	4	21	17		17												SW	2	X	14			12-00	12-16-00	
4-48	Harriet St	Hume Av								180	4	3	17		202	3	142										SW	2		11					
4-48	Hume Av	Richardson Rd								70	4	3	17		212	2	16										SW	2		15					
4-48	Richardson Rd	8-47- Hume Av								190	4	2	200		17	2	157										SW	2		15					
4-49	Harriet St	4-115- West Sanguary Rd			X	X				1600	20	4	20		147	20											SW	2	X	18			12-00	12-16-00	
4-49	Harriet St	4-115- West Sanguary Rd								1650	4	3	17		177	17	15										SW	2		18					
4-50	440- W. Sanguary Rd	Harriet St			X	X				127	30	4	14		127												SW	2	X	17			1-00	2-24-00	
4-50	440- W. Sanguary Rd	Harriet St								1000	4	2	1000		170	2	8										SW	2		17					
4-51	Shade Av	Sanguary St		X			X	X		5200	100	10	10		162	100											SW	2		14			2-55	82	
4-51	1-1- Latta Av	Sanguary St		X						1300	3	20	130		160	3											SW	2	X	14			2-55		
4-52	1-2- Shade Av. R/W	1-3- Latta Av. R/W		X			X	X		1000	2000	1	200		185	10											SW	2	X	14			1-00	2-24-00	
4-53	1-1- R/W	Latta Av. R/W		X			X	X		1200	1	3	110		16	3											SW	2	X	14			8-00	3-20-00	
4-54	Shade Av. R/W	Harriet St		X			X	X		1200	2000	3	200		200	3											SW	2	X	14			1-00	2-18-00	
4-56	Harriet St	Harriet St		X	X	X				1000	1000	3	20		200	3											SW	2	X	14			3-00	6-25-00	
4-57	Harriet St	Harriet St		X			X	X		70	20	3	10		160	3											SW	2	X	14			4-00	6-25-00	
4-58	Harriet St	Harriet St								15	100	4	20		111	30	20										SW	2	X	14					
4-58	R/W- Hume Rd	1-1- Richardson Rd								20	4	15	15		15		15										SW	2		8					
4-61	1-1- Weller St	Harriet St		X	X					1000	1000	4	100		15	100											SW	2	X				4-00	6-25-00	
4-62	1-1- Weller St	Harriet St		X	X					20	4	10	10		18	20	100										SW	2							
4-62	Weller St	Harriet St		X	X					200	4	15	150		15	15											SW	2							
4-62	1-1- Hume Rd	1-1- Richardson Rd		X	X					70	1	4	200		12												SW	2	X				1-00	2-24-00	
4-62	1-1- Hume Rd	1-1- Richardson Rd		X	X					20	20	4	8		20												SW	2							
4-62	1-1- Hume Rd	1-1- Richardson Rd		X	X					20	20	4	8		20												SW	2	X				4-00	6-25-00	
4-63	1-1- Hume Rd	1-1- Richardson Rd		X	X					20	20	4	8		20												SW	2	X				4-00	6-25-00	
4-64	Harriet St	Harriet St		X	X	X				1000	1000	4	100		15	100											SW	2	X				2-00	2-23-00	
4-66	Harriet St	Harriet St		X	X	X				100	1000	4	100		15	100											SW	2	X				4-00	6-25-00	
4-67	1-1- Hume Rd	1-1- Richardson Rd		X	X	X				20	100	4	100		15	100											SW	2	X				4-00	6-25-00	
4-68	1-1- Hume Rd	1-1- Richardson Rd		X	X					20	100	4	100		15	100											SW	2	X				4-00	6-25-00	
4-70	Harriet St	Harriet St								1000	4	20	100		15	100											SW	2	X						
4-70	Harriet St	Harriet St		X	X					1000	4	20	100		15	100												SW	2	X				10-00	1-23-00

1 = SLOPE WIDTH FOR ONE SLOPE
PIC = PRISON CREW
MM = MEN/MOWING
HLC = HAND CLEANING
MW = MOWING
CMC = CITY MOBILE CREW

CMC = CITY MOBILE CREW

A = ANNUAL
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

Use to share excel summary.xls

CANAL I.D.	FROM	TO	CITY	RAW PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	ACCESS	RAW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I.D.	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	T/W WIDTH (FT)	T/W ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
4-73	Pinegrove Dr	Chickadee Ave					X	X			1200	1200	4	1	1.4	1.4	10	1.4	1.4	CONTRACT	1		1		95
4-74	Lafayette Ave	Phonix Crk					X	X			2000	2000	4	17	1.3	1.3	6	1.25	1.25	CONTRACT	1		1		
4-74	Lafayette Ave	Phonix Crk					X	X			1000	1000	4	15.5	1.1	1.1	1.42	1.42	1.42	CONTRACT	1	X	1	11-95	12-95
4-74A	4-74 Hwy 40 Park St	Chickadee St					X	X			1075	1075	4	10	1.1	1.1	1	1.1	1.1	CONTRACT	1		1	1-97	
4-75	Phonix Crk Tangemans Rd	Brookview Dr Goff Center					X	X			1000	1000	4	17.5	1.1	1.1	2.11	2.11	2.11	CONTRACT	1		1	12-95	12-95
4-75	Brookview Dr	Water Plant									1125	1125	4	15	1.2	1.2	1.52	1.52	1.52	CONTRACT	1		1		
4-78	Lafayette Ave	Phonix Crk		X			X				1000	1000	4	13	1.12	1.12	2.24	2.24	2.24	CONTRACT	1	X	1	1-98	1-12-98
4-82	4-78 Safford Lk	Robin View St						X			125	125	4	6	1.14	1.14	1.58	1.58	1.58	CONTRACT	1	X	1		
4-83	4-78 Hines Ave	Phonix Crk Powerline Park					X	X			1000	1000	4	15.5	1.14	1.14	1.1	1.1	1.1	CONTRACT	1		1	6-98	
C4-84	Phonix Crk	Phonix Ave		X			X	X			1500	1500	4	27	1.35	1.35	3.32	3.32	3.32	CONTRACT	1	X	1	8-98	8-20-98
C4-85	4-14 RAR	Trans-Hill Rd		X			X	X			4000	4000	4	18	1.75	1.75	1.55	1.55	1.55	CONTRACT	1	X	1	9-98	1-1-99
4-86	4-114	115					X	X			1800	1800	4	18	1.68	1.68	2.87	2.87	2.87	CONTRACT	1		1		
4-86	Robin View St J. Side	Chickadee Ave									1000	1000	4	25	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1		
4-86	Robin View St	McLoughlin Rd									2000	2000	4	25	1	1	0.21	0.21	0.21	CONTRACT	1		1		
4-86	Robin View St	115									8500	8500	4	27	1.6	1.6	1.75	1.75	1.75	CONTRACT	1		1		
C4-87	4-114	Chickadee Ave		X			X	X			1000	1000	4	5	1.7	1.7	1.81	1.81	1.81	CONTRACT	1	X	1	2-98	4-9-98
C4-88	4-87	Chickadee Ave		X			X	X			1000	1000	4	22	1.1	1.1	1.4	1.4	1.4	CONTRACT	1	X	1	2-98	4-1-98
4-89	Chickadee Ave	Chickadee Ave									500	500	4	7	1.4	1.4	0.75	0.75	0.75	CONTRACT	1	X	1	2-98	4-9-98
4-90	Chickadee Ave	McLoughlin Rd					X	X			4000	4000	4	21	1.12	1.12	2.11	2.11	2.11	CONTRACT	1		1	6-98	6-98
4-90	Chickadee Ave	McLoughlin Rd									5000	5000	4	15	1.7	1.7	1.21	1.21	1.21	CONTRACT	1		1		
4-91	4-86 Robin View St	Robin View St					X		X		1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1	2-98	2-98
4-92	4-86	Chickadee Ave					X	X			1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1	6-98	6-98
4-93	4-82	Chickadee Ave					X	X			1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1	6-98	6-98
4-93A	Chickadee Ave	Chickadee Ave					X		X		1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1	2-98	2-98
4-94	4-86	Chickadee Ave					X	X			1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1	6-98	6-98
4-94	4-86	Chickadee Ave									1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1		
4-96	4-86	Chickadee Ave					X	X	X		1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1	X	1	12-98	12-98
4-96	4-86	Chickadee Ave									1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1	X	1		
4-96	Chickadee Ave	Chickadee Ave									1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1		
4-97	Chickadee Ave	Chickadee Ave					X		X		1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1	X	1	6-98	7-11-98
4-98	4-86	Chickadee Ave					X		X		1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1	X	1	11-98	11-19-98
4-98	Chickadee Ave	Chickadee Ave									1000	1000	4	10	1.1	1.1	1.1	1.1	1.1	CONTRACT	1		1		

1 = SLOPE WIDTH FOR ONE SLOPE
R/C = PERSON CREW
M/M = MOWER/MOWING
H/C = HAND CLEANING
M/C = CONTRACT MOWING
C/M = COUNTY MOWING CREW

^a $n = 4$ subjects; $n = 3$ for the 100% condition.

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S = SLOPE WIDTH FOR ONE SLOPE
 PR = PRISONER WORK
 MW = MENZIMOVING
 HC = HAND CLEANING
 MR = MARCH MOVING
 CM = CARRY MOVING WORK

A = ANNUAL
 B = BI-MONTHLY
 C = EVERY THREE YEARS
 Q = QUARTERLY
 M = MONTHLY

Canal Inventory Worksheet

CANAL INVENTORY

CANAL ID	FROM	TO	CITY	RAW PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	ACCESS	R/W	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	IRASIN ID	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	T/W WIDTH (FT)	T/W ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
4-115	44th	45th	Castleman Rd								260	260	4	10	0.04	0.08	10	0.04	0.12	1	1		1		
4-118A	Castleman Rd	17th	Castleman Rd	X	X						100	100	4	8	0.03	0.06	8	0.03	0.09	X	1		17	3/06	1/22/05
4-119B	Castleman Rd	17th	Castleman Rd	X	X						175	175	4	8	0.07	0.13	12	0.07	0.20	X	1		17		
4-119B	Castleman Rd	17th	Castleman Rd								175	175	4	8	0.07	0.13	12	0.07	0.20		1		17	05	05
4-121	Hammond Ct	10th	Hammond Ct				X	X			100	100	4	10	0.04	0.08	10	0.04	0.12	X	1		17	5/09	5/21/08
5-117A	Riviera Dr	Fence Line	Riviera Dr				X	X			800	800	4	8	0.03	0.06	16	0.03	0.09		1		17		
5-118A	Riviera Dr	Field	Riviera Dr	X	X					X	125	125	4								1		17		
5-119	Richardson St	Riviera Dr	Riviera Dr				X	X			1500	1500	4	25	0.25	0.50	11.25	0.25	0.75		1		17		
5-119	Richardson Rd	Fence Line	Riviera Dr								200	200	4	7	0.03	0.06	16	0.03	0.09		1		17		
5-119	Riviera Dr	East of Maple Street Dr	Riviera Dr								100	100	4	7	0.03	0.06	16	0.03	0.09		1		17		
5-122	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12	X	1		17	3/03	1/22/05
5-122	Castle Dr	10th	Castle Dr								100	100	4		0.07	0.13	27	0.07	0.20		1		17		
5-123	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12	X	1		17	3/06	1/22/05
5-124	US-40	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12	X	1		17	3/06	1/22/05
5-125	Castle Dr Rd	Field	Castle Dr Rd				X	X			300	300	4								1		17		
5-126	Castle Dr Rd	10th	Castle Dr Rd				X	X			70	70	4								1		17		
5-127	US-125	10th	US-125	X	X						210	210	4								1		17		
5-128	US-125	10th	US-125				X	X			1000	1000	4								1		17		
5-129	US-125	10th	US-125	X	X					X	350	350	4								1		17		
5-130	Field	10th	Field	X	X					X	400	400	20								1		17		
5-131	Field	10th	Field	X	X					X	50	50	20								1		17		
6-114	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-114	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-114	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-114	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-114	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-117	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-117	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-118	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-118	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-119	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		
6-119	US-52	10th Dr	10th Dr				X	X			100	100	4	10	0.04	0.08	20	0.04	0.12		1		17		

1 = SLOPE WIDTH FOR ONE SLOPE
 PC = PERSON CREW
 MA = MENS, MAINT
 MC = HAND CLEANING
 MW = CONTRACT MAINT
 CM = COUNTY MAINT CREW

A = ONCE A YEAR
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

Fullshare excel021157000004.xls

CANAL INVENTORY

CANAL ID.	FROM	TO	CITY	R/W PROBLEMS ACCESS PROBLEMS EASEMENT PROBLEMS	ACCESS R/W	EASEMENT	NOT MAINTAINED	WORK LENGTH (FET)	TOTAL LENGTH (FET)	BASEIN LB SLOPE WIDTH (FET)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	T/W WIDTH (FET)	T/W ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	YIELD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
6-115	Palmer Rd	Wagon Rd						225	4	14	24	2.57	17	1.75	1.75	1.75	1.00	1			
6-116	Stoughton Rd	Front St						260	4	15	3.5	1.0	65	1.1	1.00	1.00	1.00	1			
6-119	Front St Rd	Wagon Rd						220	4	14	31	1.1	15	1.5	1.50	1.50	1.00	1			
6-125	St. St	Front St			X	X		570	520	4	24	1.2	1.5		1.50	1.50	1.00	1			
6-126	St. St	Stoughton Rd			X	X		170	570	4	15	1.2	1.5		1.50	1.50	1.00	1			
6-128	St. St	St. St			X	X		110	220	21	1	6.4	1.5		1.50	1.50	1.00	1			
6-128	Old St	St. St						60	4	15	1.7	6.55	18	1.12	1.40	1.50	1.00	1			
6-129	Front St Rd	St. St			X		X	180	150	21	1	11	22		1.50	1.50	1.00	1			
6-132	Front St Rd	Front St			X	X		707	707	4	21	4.51	1.1		1.10	1.10	1.00	X	1	4.00	4/20/99
6-133	Tatum Rd	Front St			X	X		105	150	1	15	1.63	1		1.10	1.10	1.00	X	1	4.00	4/20/99
6-134	St. St	Front St			X	X		500	150	4	8	41	1.5		1.10	1.10	1.00	X	1	4.00	4/20/99
6-135	St. St	Front St		X	X			600	600	4	15.5	6.31	1.12		1.10	1.10	1.00	X	1	4.00	4/20/99
6-136	St. St	East Rd			X			220	220	4	8.5	6.63	1.87		1.87	1.10	1.00	X	1	4.00	4/22/99
6-136	St. St	East Rd						550		4	7	2.28	4.53	12		6.72	1.00	1			
6-137	East Rd	Front St			X	X		300	300	4	21	9.09	1.6		1.10	1.10	1.00	X	1.5	5.00	6/12/99
6-138	St. St	Front St			X	X		600	600	4	15	4.24	5.18		3.15	1.10	1.00	X	1.5	5.00	7/21/99
6-138	St. St	Front St						210		4	15	1.87	1.5	21		1.10	1.00				
6-139	St. St	Palmer Rd			X		X	100	100	4	15.5	1.81	1.1		1.10	1.10	1.00	X		5.00	7/14/99
6-139	St. St	Stoughton Rd						150		4	15	1.45	1.1	21		1.10	1.00	1			
6-140	St. St	St. St			X	X		150	600	4	15	2.56	1.04		1.10	1.10	1.00	X	1	5.00	7/14/99
6-140	Stoughton Rd	St. St						1.50		4	15	1.47	1.1	15		1.10	1.00	1			
6-141	St. St	St. St			X	X		210	260	4	21	1.13	1.25		1.10	1.10	1.00	X		5.00	7/14/99
6-142	Brigadier Rd	St. St			X	X		150	150	4	21	2.11	1.1		1.10	1.10	1.00	X	1.5	6.00	7/14/99
6-142	Brigadier Rd	Stoughton Rd						110		4	15	1.73	1.13	21		1.10	1.00	1			
6-142	Stoughton Rd	St. St						110		4	15	1	1.03	1		1.10	1.00				
6-143	Brigadier Rd	St. St			X	X		570	570	4	24	1.6	1.82		1.10	1.10	1.00	X		6.00	7/14/99
6-143	St. St	Stoughton Rd						112		4	15	1.75	1.15	1		1.10	1.00	1			
6-143	Brigadier Rd	St. St						110		4	15	1.1	1.1	11		1.10	1.00	1			
6-143	St. St	Stoughton Rd			X	X		210	210	4	21	1.57	2.51		1.10	1.10	1.00	1		10.00	
6-144	Stoughton Rd	St. St			X	X		100	100	4	15	1.8	1.1		1.10	1.10	1.00	1		10.00	
6-146	St. St	Palmer Rd			X	X		520	520	4	15	2.11	1.2		1.10	1.10	1.00	X	1.5	6.00	7/14/99
6-146	St. St	Stoughton Rd						110		4	15	1.6	1.1	1		1.10	1.00	1			

1 = SLOPE WIDTH FOR ONE SLOPE

PGC = PRISON CREW

GMW = GUY MOWING

MM = MENZ MOWING

HG = HAND CLEANING

MM = MURRAY MOWING

GMW = GUY MOWING CREW

A = 1 YEAR
B = 2 YEAR
C = EVERY THREE YEARS
D = QUARTERLY
M = MONTHLY

USER: SHAWMEE DATE: 10/20/2015

CANAL INVENTORY

CANAL I.D.	FROM	TO	CITY	RAV PROBLEMS ACCESS PROBLEMS FASCT PROBLEMS	ACCESS RAV	EASMENT	NOV MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I.D.	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TW WIDTH (FT)	TW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SHEET PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE	
6-146	South Lagoon Dr	North Lagoon Dr						100	4	1	0	0.46	16	0	1.12	1.56	1			1			
6-146	South Lagoon Dr	1-117						100	4	1	0	0.46	16	0	1.12	1.56	1			1			
6-147	6-146	1-117			X	X		100	110	4	1	1.15	18	0	1.58	2.73	1			1			
6-148	6-147	1-117						400	400	4	1	11	287	0	1.17	3.31	1			1			
6-149	Under Construction				X	X		1200	1200	4	1	1.1	940	0	1.1	3.31	1			1			
6-149	Under Construction							100	4	1	0	0.46	16	0	1.12	1.56	1			1			
6-149A	1-117	1-117			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-149A	1-117	1-117						100	4	1	0.46	0.46	16	0	1.12	1.56	1			1			
6-149B	Under Construction							100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-150	6-149	1-117			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-150	6-149	1-117						100	4	1	0	0.46	16	0	1.12	1.56	1			1			
6-151	1-117	1-117			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-152	6-151	1-117			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-152	6-151	1-117			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-153	6-152	1-117			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-153	6-152	1-117			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-154	6-153	1-117			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			1			
6-156	1-117	1-117			X	X		400	400	4	1	1.1	120	0	1.1	3.31	1			1			
6-157	South Lagoon Dr	South Lagoon Dr			X	X		400	400	4	1	1.1	120	0	1.1	3.31	1			X	1	6/9/15	7/11/15
6-158	1-117	South Lagoon Dr			X	X		100	100	4	1	0.46	16	0	1.12	1.56	1			X	1	6/9/15	7/11/15
6-227	1-117	1-117			X	X		400	400	4	1	1.1	120	0	1.1	3.31	1			X	1	6/9/15	7/11/15
7-128	1-128	Manure Creek Line		X	X		X	600	21											1			
7-156	Manure Creek Line	Manure Creek Line		X	X		X	600	22											1			
7-157	1-156	1-156		X	X		X	600	22											1			
7-158	1-157	1-157		X	X		X	600	21											1			
7-159	1-158	1-158		X	X		X	600	22											1			
7-159A	1-159	1-159		X	X		X	600	22											1			
7-160	1-159A	1-159A		X	X		X	600	22											1			
7-161	1-160	1-160		X	X		X	600	21											1			
7-162	1-161	1-161		X	X		X	600	21											1			
7-163	1-162	1-162		X	X		X	600	21											1			
7-163	1-162	1-162		X	X		X	600	21											1			
7-163	1-162	1-162		X	X		X	600	21											1			
7-163	1-162	1-162		X	X		X	600	21											1			

1 = SLOPE WIDTH FOR ONE SLOPE

PC = PRISON CREW

CMW = COUNTY MOOWING CREW

MM = MINA MOOWING

HIC = HAND CLEANING

MC = CONTRACT MOOWING

CMC = COUNTY MOOWING CREW

3

A = ONCE A YEAR
H = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

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CANAL INVENTORY

CANAL ID	FROM	TO	CITY	ROW PROBLEMS ACCESS PROBLEMS EASMT PROBLEMS	ACCESS ROW EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN ID	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (GROSS SLOPE)	LAW WIDTH (FT)	LAW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SHEET PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
B-158	N 146	N 147		X X		X		229	22												
B-160	N 164	Manatee County		X X		X		219	22												
B-162	Seaside Rd	Manatee County		X X				153	22												
B-164	N 167	N 168		X X		X		52	22												
B-165	N 169	Field		X X		X		53	22												
B-166	N 166 Rd	Field		X X		X		52	22												
B-167	N 164	Field			X X			52	22												
B-168	N 172	N 173		X X		X		139	22												
B-169	Trinity Rd	N 173		X X		X		269	22												
B-170	Trinity Rd	N 174		X X		X		63	22												
B-171	N 175	Field		X X		X		79	22												
B-172	N 168	Field		X X		X		240	22												
B-173	N 174	N 175		X X				559	22												
B-174	N 173 North	N 174 North Rd							22												
B-179	N 173	Field		X X		X		66	22												
B-179	N 174	Field		X X		X		68	22												
B-179	Trinity Rd	Manatee Co			X X			27	22											2-98	1-1-97
B-176	N 172	N 173		X X		X		29	22												
B-177	N 172	N 173		X X		X		139	22												
B-180	N 175	Manatee County		X X		X		32	22												
B-187	Holmes River Rd	N 175		X X		X		29	22												
B-181	Cape Verde Dr	Trinity Rd			X X			139	27		129		139			X	1			1-98	
10-62B	Trinity Rd	Seaside Rd			X X			29	22	4	29		139					X		7-98	7-10-98
10-63	Trinity Rd	Seaside Rd		X X				139	27	4	139		139					X		7-98	7-2-98
10-63	Trinity Rd	Behind Seaside Rd							4												
10-86	Seaside Rd	Field			X X			139	27	4	139									7-98	4-8-98
10-109	Trinity Rd	Seaside Rd			X X X			29	22	4	29		139					X		7-98	7-10-98
10-108	Seaside Rd	Trinity Rd							4												
10-108	Trinity Rd	Field		X X				139	27	4	139								X	7-98	7-10-98
10-109	Trinity Rd	Manatee County		X X				139	27	27										10-98	10-97
10-110	Trinity Rd	Trinity Rd		X X		X		29	27	27										12-98	
10-111	Trinity Rd	Trinity Rd			X X			139	27	4	139							X		7-98	7-10-98

1 = SLOPE WIDTH BASELINE SLOPE

PC = PERSON CREW

CM = COUNTY MOWING

MM = MEADOW MOWING

CC = CANAL CLEANING

MA = CONTRACT MOWING

CM = COUNTY MOWING CREW

6

A = 1 YEAR
B = 2 TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

1 User: SpaceHeater Date: 06/06/2008

CANAL I.D.	FROM	TO	CITY	ROW PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASEIN I.D.	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED	STONE SLOPE	SLOPE ACRES MAINTAINED (ROUGH SLOPES)	TW WIDTH (FT)	TW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
10-111A	Reynolds Ave	Outcrop Creek		X				720	720	4	0	0		1.0			1.0	1.0	1	X	1	7-00	7-21-08
10-115	Hunter Ave	Bee Ridge Rd		X				600	600	4	0	0		0.80			0.80	1.0	1	X	1	7-00	8-4-08
10-116	Amber St	Corporate Dr		X				200	200	4	0	0		0.15			0.15	1.0	1		1	8-04	
10-179	Phillips Lane	North Laneson Trac		X	X	X		2400	3225	4	0	0		1.42			1.42	1.0	1	X	1	7-00	8-4-08
10-179	Alto Terrace	Reynolds Ave						600		4	0	0		0.33	14	0	0.33	0.50	1		1		
10-179	Reynolds Ave	Stone Ave						1225		4	0	0		0.63	14	0	0.63	0.50	1		1		
10-179	North Laneson Tr	Stone Ave						1240		4	0	0		0.11	0	0	0.11	0.50	1		1		
10-180	Phillips & L	Stone Ave		X		X		1200	1220	4	0	0		0.64			0.64	1.0	1	X	1	7-00	7-21-08
10-182	Swan Rd	North of DP on Clark Rd			X	X		700	700	8	0	0		0.32			0.32	1.0	1		1	7-00	10-1-06
10-183	Swan Rd	Phillips Creek		X	X			1200	1200	4	0	0		0.34			0.34	1.0	1	X	1	7-00	7-20-08
10-183	Swan Rd	Lane Ave						600		4	0	0		0.05	13	0	0.05	0.50	1		1		
10-184	11047	Phillips Creek		X	X	X		3000	3000	4	0	0		0.62			0.62	1.0	1	X	1	10-05	7-00
10-184	11047	Reynolds Rd						2000		4	0	0		0.34	46	0	0.34	0.50	1		1		
10-184	11047	Alto Terrace						4000		4	0	0		0.40			0.40	1.0	1		1	10-07	
10-185	DP on Clark Road	North of Red Hill Slough		X	X			1000	1000	4	0	0		0.32			0.32	1.0	1	X	1	8-00	8-17-06
10-185A	West Red Hill	Reynolds Ave		X	X			1000	1000	4	0	0		0.36			0.36	1.0	1	X	1	7-00	8-4-08
10-185A	Reynolds Ave	West Red Hill Slough						1000		4	0	0		0.32	13	0	0.32	0.50	1		1		
10-185B	Reynolds St	West Red Hill		X	X			1000	1000	4	0	0		0.32			0.32	1.0	1		1	7-00	8-16-07
10-186	Alto Rd	West Red Hill		X	X			1000	1000	4	0	0		0.30			0.30	1.0	1	X	1	7-00	7-20-08
10-186	Phillips Rd	Reynolds St						1000		4	0	0		0.07	23	0	0.07	0.50	1		1		
10-187	Corporate Park Rd	11047		X	X			1000	1000	4	0	0		0.45			0.45	1.0	1	X	1	8-00	8-18-05
10-187	Corporate Park Rd	Reynolds Rd						2000		4	0	0		0.08	13	0	0.08	0.50	1		1		
10-187	Reynolds Rd	Adams Rd West						2000		4	0	0		0.40	23	0	0.40	0.50	1		1		
10-188	Corporate St	North Hill		X		X		7000	6000	4	0	0		0.67		0	0.67	1.0		X	1	8-00	8-2-08
10-188	Corporate St	Stone Ave						6000		4	0	0		1.20			1.20	1.0			1		
10-189	Stone Ave	11047 Rd		X	X			1000	1000	4	0	0		0.30			0.30	1.0	1		1	7-00	8-24-07
10-189A	Corporate St	Corporate St		X	X			1000	1000	4	0	0		0.37			0.37	1.0	1		1	7-00	1-25-07
10-189B	Corporate St	Corporate Rd		X	X			2000	1000	4	0	0		0.25			0.25	1.0	1		1	7-00	1-25-07
10-190	Corporate St	Corporate St		X	X			1400	1400	8	0	0		0.67			0.67	1.0	1	X	1	10-00	11-12-08
10-191	Corporate Rd	Corporate St		X	X			1000	1000	8	0	0		0.67			0.67	1.0	1	X	1	8-00	8-28-08
10-192	Corporate St	Corporate St		X		X		2000	2000	8	0	0		0.30			0.30	1.0	1	X	1	7-00	12-11-08
10-192	Corporate St	Corporate St						2000		8	0	0		0.45	12	0	0.45	1.0	1		1		

1 = SLOPE WIDTH EQUALS SLOPE
MC = MOWING CREW
MM = MOWING MACHINE
HC = HAND CLEANING
CW = CONTRACT MOWING
CM = COUNTY MOWING CREW

13

A = ONCE A YEAR
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

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CANAL I.D.	FROM	TO	CITY	RAW PROBLEMS	ACCESS PROBLEMS	EASMENT ACCESS	RAW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I/D	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	FW WIDTH (FT)	FW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
10-192	Gully Lake Dr	Rockledge Blvd	Rockledge				X	X		150	150	5	15	21	1.41			2.1	100	X	X	1	8-00	8-28-98
10-194	W. X. Dunham Dr	Rockledge Blvd	Rockledge	X			X			150	150	5	15	21	1.41			2.1	100	X	X	1	2-00	12-31-98
10-196	W. X. Dunham Dr	Maywood St	Maywood				X	X		150	150	5	15	1.48	1.48	150		1.5	100	X	X	1	8-00	8-28-98
10-198	South Lantana Trail	Hennepin Rd	Hennepin				X	X		150	150	5	15	3.63	3.63	150		3.7	500	X	X	1	8-00	8-28-98
10-198	W. X. Dunham Dr	Boyd St Rd	Boyd St							150	150	5	15	1.4	1.4	150	2.58	1.5	100	X	X	1		
10-199	West End Dr	Hennepin Rd	Hennepin							150	150	5	15	1.4	1.4	150	2.58	1.5	100	X	X	1		
10-198X	Marion Ave So	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	5	15	1.7	1.7	150		1.7	100	X	X	1		
10-199	Hennepin Rd	Boyd St Rd	Boyd St				X	X		150	150	5	15	1.4	1.4	150	2.58	1.5	100	X	X	1	8-00	8-28-98
10-199	W. X. Dunham Dr	Maywood St	Maywood							150	150	5	15	1.48	1.48	150	2.58	1.5	100	X	X	1		
10-200	W. X. Dunham Dr	South Lantana Rd	South Lantana	X	X	X				150	150	9	15	3.1	3.1	150		3.1	100	X	X	1	8-00	10-1-98
10-201	S. Melanah Rd	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	2.12	2.12	150		2.1	100	X	X	1	8-00	8-28-98
10-202	W. X. Dunham Dr	Hennepin Rd	Hennepin	X	X		X	X	X	150	150	9	15	1.4	1.4	150		1.4	100	X	X	1		
10-203	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham							150	150	9	15	1.4	1.4	150	0.19	1.4	100	X	X	1		
10-203	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham							150	150	9	15	1.4	1.4	150	0.19	1.4	100	X	X	1		
10-203A	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	8-00	8-28-98
10-204	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham							150	150	9	15	1.4	1.4	150		1.4	100	X	X	1		
10-204A	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	8-00	8-28-98
10-204A	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X	X	150	150	9	15	1.4	1.4	150		1.4	100	X	X	1		
10-205	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham							150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	11-00	11-28-98
10-207	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham	X	X	X			X	150	150	10	15	1.4	1.4	150		1.4	100	X	X	1		
10-208	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1		
10-209	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	8-00	8-28-98
10-209	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1		
10-209A	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	8-00	8-28-98
10-210	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham	X	X		X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	12-00	
10-210B	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1		
10-211	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	8-00	8-28-98
10-212A	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	7-00	7-1-98
10-213	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	8-00	8-28-98
10-214	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	12-00	12-17-98
10-214A	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X		150	150	9	15	1.4	1.4	150		1.4	100	X	X	1	12-00	12-17-98
10-215	W. X. Dunham Dr	W. X. Dunham Dr	W. X. Dunham				X	X	X	150	150	9	15	1.4	1.4	150		1.4	100	X	X	1		

FW = SLOPE WIDTH FOR ONE SLOPE

PRC = PRISON CREW

MM = MENS/MOWING

HC = HAND CLEANING

HW =TRACT MOWING

CMC = MENS/MOWING CREW

CMW = CTR MOWING

A = YEAR
B = TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

Caltrans/Sharepoint/Inventory/Inventory.xls

CANAL ID	FROM	TO	CITY	ROW PROBLEMS ACCESS PROBLEMS EASEMENT PROBLEMS	ACCESS ROW EASEMENT NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN ID	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	CANAL WIDTH (FT)	LOW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
11-206	11-211	11-210		X	X	X	100	100	10											
11-207	11-211	11-210		X	X	X	100	100	10											
11-208	11-211	11-210		X	X	X	100	100	10											
11-208A	11-211	11-210		X	X	X	100	100	10											
11-209	11-211	11-210		X	X	X	100	100	10											
11-210	11-211	11-210		X	X	X	100	100	10											
11-211	11-211	11-210		X	X	X	100	100	10											
11-212	11-211	11-210		X	X	X	100	100	10											
11-213	11-211	11-210		X	X	X	100	100	10											
11-214	11-211	11-210		X	X	X	100	100	10											
11-215	11-211	11-210		X	X	X	100	100	10											
11-216	11-211	11-210		X	X	X	100	100	10											
11-217	11-211	11-210		X	X	X	100	100	10											
11-218	11-211	11-210		X	X	X	100	100	10											
11-219	11-211	11-210		X	X	X	100	100	10											
11-220	11-211	11-210		X	X	X	100	100	10											
11-221	11-211	11-210		X	X	X	100	100	10											
11-222	11-211	11-210		X	X	X	100	100	10											
11-223	11-211	11-210		X	X	X	100	100	10											
11-224	11-211	11-210		X	X	X	100	100	10											
11-225	11-211	11-210		X	X	X	100	100	10											
11-225A	11-211	11-210		X	X	X	100	100	10											
11-226	11-211	11-210		X	X	X	100	100	10											
11-227	11-211	11-210		X	X	X	100	100	10											
11-228	11-211	11-210		X	X	X	100	100	10											
11-229	11-211	11-210		X	X	X	100	100	10											
11-230	11-211	11-210		X	X	X	100	100	10											
11-231	11-211	11-210		X	X	X	100	100	10											
11-232	11-211	11-210		X	X	X	100	100	10											
11-233	11-211	11-210		X	X	X	100	100	10											
11-234	11-211	11-210		X	X	X	100	100	10											
11-235	11-211	11-210		X	X	X	100	100	10											
11-236	11-211	11-210		X	X	X	100	100	10											
11-237	11-211	11-210		X	X	X	100	100	10											
11-238	11-211	11-210		X	X	X	100	100	10											
11-239	11-211	11-210		X	X	X	100	100	10											
11-240	11-211	11-210		X	X	X	100	100	10											
11-241	11-211	11-210		X	X	X	100	100	10											
11-242	11-211	11-210		X	X	X	100	100	10											
11-243	11-211	11-210		X	X	X	100	100	10											
11-244	11-211	11-210		X	X	X	100	100	10											
11-245	11-211	11-210		X	X	X	100	100	10											
11-246	11-211	11-210		X	X	X	100	100	10											
11-247	11-211	11-210		X	X	X	100	100	10											
11-248	11-211	11-210		X	X	X	100	100	10											
11-249	11-211	11-210		X	X	X	100	100	10											
11-250	11-211	11-210		X	X	X	100	100	10											
11-251	11-211	11-210		X	X	X	100	100	10											
11-252	11-211	11-210		X	X	X	100	100	10											
11-253	11-211	11-210		X	X	X	100	100	10											
11-254	11-211	11-210		X	X	X	100	100	10											
11-255	11-211	11-210		X	X	X	100	100	10											
11-256	11-211	11-210		X	X	X	100	100	10											
11-257	11-211	11-210		X	X	X	100	100	10											
11-258	11-211	11-210		X	X	X	100	100	10											
11-259	11-211	11-210		X	X	X	100	100	10											
11-260	11-211	11-210		X	X	X	100	100	10											
11-261	11-211	11-210		X	X	X	100	100	10											
11-262	11-211	11-210		X	X	X	100	100	10											
11-263	11-211	11-210		X	X	X	100	100	10											
11-264	11-211	11-210		X	X	X	100	100	10											
11-265	11-211	11-210		X	X	X	100	100	10											
11-266	11-211	11-210		X	X	X	100	100	10											
11-267	11-211	11-210		X	X	X	100	100	10											
11-268	11-211	11-210		X	X	X	100	100	10											
11-269	11-211	11-210		X	X	X	100	100	10											
11-270	11-211	11-210		X	X	X	100	100	10											
11-271	11-211	11-210		X	X	X	100	100	10											
11-272	11-211	11-210		X	X	X	100	100	10											
11-273	11-211	11-210		X	X	X	100	100	10											
11-274	11-211	11-210		X	X	X	100	100	10											
11-275	11-211	11-210		X	X	X	100	100	10											
11-276	11-211	11-210		X	X	X	100	100	10											
11-277	11-211	11-210		X	X	X	100	100	10											
11-278	11-211	11-210		X	X	X	100	100	10											
11-279	11-211	11-210		X	X	X	100	100	10											
11-280	11-211	11-210		X	X	X	100	100	10											
11-281	11-211	11-210		X	X	X	100	100	10											
11-282	11-211	11-210		X	X	X	100	100	10											
11-283	11-211	11-210		X	X	X	100	100	10											
11-284	11-211	11-210		X	X	X	100	100	10											
11-285	11-211	11-210		X	X	X	100	100	10											
11-286	11-211	11-210		X	X	X	100	100	10											
11-287	11-211	11-210		X	X	X	100	100	10											
11-288	11-211	11-210		X	X	X	100	100	10											
11-289	11-211	11-210		X	X	X	100	100	10											
11-290	11-211	11-210		X	X	X	100	100	10											
11-291	11-211	11-210		X	X	X	100	100	10											
11-292	11-211	11-210		X	X	X	100	100	10											
11-293	11-211	11-210		X	X	X	100	100	10											
11-294	11-211	11-210		X	X	X	100	100	10											
11-295	11-211	11-210		X	X	X	100	100	10											
11-296	11-211	11-210		X	X	X	100	100	10											
11-297	11-211	11-210		X	X	X	100	100	10											
11-298	11-211	11-210		X	X	X	100	100	10											
11-299	11-211	11-210		X	X															

A = ONCE A YEAR
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

Users share each spreadsheet

CANAL INVENTORY

CANAL ID.	FROM	TO	CITY	R/W PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	R/W ACCESS	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN ID	SLOPE WIDTH (FT)*	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	T/W WIDTH (FT)	T/W ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE	
12-227	Proctor Rd	Levy Rd								17	17	4	14	1.1	0.4	29	0	1.1	1.1				24		
12-227	Proctor Rd	12121 Branta Dr								17	17	4	14	1.1	0.4	29	0	1.1	1.1				24		
12-228	Proctor Rd	12111		X	X					17	17	4	14	1.1	0.4	29	0	1.1	1.1			X	24	4.00	9/18/04
12-229	12121 Branta Dr	Yates Rd		X		X				15.5	15.5	4	18	1.1	0.4	24		1.1	1.1			X	24	3.00	12/15/04
12-229	12121 Branta Dr	Clark Rd								16.1	16.1	4	0	1.1	0.4	2		1.1	1.1				24		
12-230	12227	12201 St		X		X	X		X			4											24		
12-231	12227	Frank		X		X	X		X			4											24		
12-232	12227	Frank		X	X				X			4											24		
12-233	12227	Frank		X		X	X		X			4											24		
12-234	1222	12th St		X		X				4	4	4	5.1	0.4	0.4			0.4	0.4				24	3.00	
12-237	12143	Hawes Head Pkwy			X	X			X			4											24		
12-238	Clark Rd	12201					X	X		15	15.4	21	17	1.1	0.4	1.4		1.1	0.4				24	4.00	
12-239	Clark Rd	12121 Cow Per S. Ave		X	X	X				12.5	12.5	21	14.4	1.1	0.4	2.4		1.1	0.4			X	24	3.00	9/18/04
12-239	Clark Rd	Per Ridge Rd East								11	11	21	5	1.1	0.4	1		1.1	0.4				24		
12-240	Per Ridge Rd East	Howe Rd Dr. Bee Ridge Rd								11	11	4.2	14	1.1	0.4	1		1.1	0.4				24		
12-241	Per Ridge Rd East	12141					X	X	X			21											24		
12-242	12121 Cow Per	Frank		X	X				X			21											24		
12-243	12121 Cow Per	Frank				X	X			11	11.4	21	15	1.1	0.4	1.4		1.1	0.4				24		
12-244	12111	Frank		X	X				X			21											24		
12-245	12141	12141		X	X				X			21											24		
12-246	Howe Rd S.E.	1215		X		X			X			11											24		
12-248	Clark Rd	12124		X		X			X			21											24		
12-248	Clark Rd	Howe Rd Dr. Cow Per					X	X		11	11.4	21	17	1.1	0.4	1.4		1.1	0.4				24		
12-249	Frank	12141							X			11											24		
12-249	Frank	12141		X	X				X			21											24		
12-249	Frank	12141		X	X				X			21											24		
12-249	Frank	12141		X	X				X			21											24		
12-250	Frank	12141		X	X				X			21											24		
12-251	Frank	12141		X	X				X			21											24		
12-252	Frank	12141		X	X				X			21											24		

* = SLOPE WIDTH FOR ONE SLOPE

PG = GRASS CREW

MM = MANTENANCE

HC = HAND CLEANING

MM = MANTENANCE

MM = MANTENANCE

CM = CITY MOWING

A = 1 YEAR
B = 2 YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

Users:hardmarat 11/10/2015 10:15:15

CANAL ID	FROM	TO	CITY	RAW PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASEIN ID	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED	CONC SLOPE	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TW WIDTH (FT)	TW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	PAST MAINTENANCE DATE
13-243	13-242	13-244		X	X		X		25	11													
13-254	13-252	13-256		X	X		X		25	11													
13-255	13-254	13-256		X	X		X		25	11													
13-256	13-254	13-258		X	X		X		25	11													
13-257	13-256	13-258		X	X		X		25	11													
13-267	13-266	13-268		X	X		X		25	11													
14-248	14-247	14-249		X	X		X		25	11													
14-249	14-248	14-250		X	X		X		25	11													
14-240	14-239	14-241		X	X		X		25	11													
14-241	14-240	14-242		X	X		X		25	11													
14-242	14-241	14-243		X	X		X		25	11													
14-243	14-242	14-244		X	X		X		25	11													
14-244	14-243	14-245		X	X		X		25	11													
14-245	14-244	14-246		X	X		X		25	11													
14-246	14-245	14-247		X	X		X		25	11													
14-247	14-246	14-248		X	X		X		25	11													
14-248	14-247	14-249		X	X		X		25	11													
14-249	14-248	14-250		X	X		X		25	11													
14-250	14-249	14-251		X	X		X		25	11													
14-251	14-250	14-252		X	X		X		25	11													
14-252	14-251	14-253		X	X		X		25	11													
14-253	14-252	14-254		X	X		X		25	11													
14-254	14-253	14-255		X	X		X		25	11													
14-255	14-254	14-256		X	X		X		25	11													
14-256	14-255	14-257		X	X		X		25	11													
14-257	14-256	14-258		X	X		X		25	11													
14-258	14-257	14-259		X	X		X		25	11													
14-259	14-258	14-260		X	X		X		25	11													
14-260	14-259	14-261		X	X		X		25	11													
14-261	14-260	14-262		X	X		X		25	11													
14-262	14-261	14-263		X	X		X		25	11													
14-263	14-262	14-264		X	X		X		25	11													
14-264	14-263	14-265		X	X		X		25	11													
14-265	14-264	14-266		X	X		X		25	11													
14-266	14-265	14-267		X	X		X		25	11													
14-267	14-266	14-268		X	X		X		25	11													
14-268	14-267	14-269		X	X		X		25	11													
14-269	14-268	14-270		X	X		X		25	11													

1 = SLOPE WIDTH FROM ONE SLOPE
 PG = PRISON GREEN
 MM = MEADOWS
 PG = POND GREEN
 MM = MEADOWS
 PG = POND GREEN
 MM = MEADOWS
 PG = POND GREEN
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A = ONCE A YEAR
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Updated by: jaymccoll@cityofmcclellan.com

CANAL INVENTORY

CANAL ID	FROM	TO	CITY	RAW PROBLEMS	ACCESS PROBLEMS	EASMENT PROBLEMS	ACCESS	RAW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN ID	SLOPE WIDTH (FT)*	SLOPE ACRES MAINTAINED	ONE SLOPE	SLOPE ACRES MAINTAINED	400TH SLOPE	TW WIDTH (FT)	TW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
14-270	Monterey Valley Dr	14-271					X	X			16.9	16.9	22	7	8		1.9				17.8	1					
14-270	Southern Rd	Monterey Valley Dr									16.9	16.9	22	7	8		1.9		X	1.9	17.8	1			14-1		
14-271	14-270	Monterey Valley Dr					X	X			7	7	22	1	1		0.1				7.1	1			14-1		
14-274	San Ramon Rd	Monterey Valley Dr					X	X			1.8	1.8	22	1	1		0.2				2.0	1			14-1		
14-275	San Ramon Rd	14-276					X	X			12	12	22	8.7	9		1.1				13.1	1			14-1		
14-275	San Ramon Rd	Monterey Valley Dr									12	12	22	8	9		1.1		X	1.1	13.1	1			14-1		
14-276	Monterey Valley Dr	14-277					X	X			1.36	1.36	22	1	1		0.1				1.46	1			14-1		
14-277	Monterey Valley Dr	14-278					X	X			22.1	22.1	22	2	2		2.1				24.2	1			14-1		
14-278	14-277	San Ramon Rd					X	X			12.1	12.1	22	8	9		1.1				13.2	1			14-1		
14-278	14-277	San Ramon Rd									1	1	22	7	8		0.1		X	0.1	7.1	1			14-1		
14-279	San Ramon Rd	14-280					X	X			14	14	22	18	19		1.8				15.8	1			14-1	10-98	10-1-98
14-280	14-279	14-281					X	X			21.9	21.9	22	17	18		1.9				23.8	1			14-1		
14-280	14-279	Monterey Valley Dr									24.1	24.1	22	18	19		2.1		X	2.1	26.2	1			14-1	10-98	10-1-98
14-281	Monterey Valley Dr	14-282									13.9	13.9	22	8	9		1.1				15.0	1			14-1	10-98	10-1-98
15-245	14-244	Monterey Valley Dr		X			X	X			1.1	1.1	22	1	1		0.1				1.2	1			14-1		
15-245	Monterey Valley Dr	Monterey Valley Dr		X			X	X			1	1	22	1	1		0.1				1.1	1			14-1		
15-246	14-245	San Ramon Rd		X	X						1.1	1.1	22	1	1		0.1				1.2	1			14-1		
16-200	San Ramon Rd	San Ramon Rd		X			X	X			11.7	11.7	10								11.7	1			14-1		
16-206	San Ramon Rd	San Ramon Rd									11.1	11.1	11								11.1	1			14-1		
16-247	San Ramon Rd	San Ramon Rd									1.1	1.1	11								1.1	1			14-1		
16-248	San Ramon Rd	San Ramon Rd		X			X	X			11.6	11.6	10								11.6	1			14-1		
16-270A	Monterey Valley Dr	14-271		X	X						1	1	10		1		0.1				1.1	1			14-1	8-98	
16-270B	San Ramon Rd	San Ramon Rd		X	X						1.7	1.7	10	1	1		0.1				1.8	1			14-1	8-98	8-1-98
16-271	San Ramon Rd	San Ramon Rd		X			X	X					11				0.1				1.1	1	X		14-1	8-98	8-1-98
16-272	San Ramon Rd	San Ramon Rd									1	1	11	1	1		0.1				1.1	1	X		14-1	8-98	8-1-98
17-271	San Ramon Rd	San Ramon Rd		X	X						11.6	11.6	11	1	1		1.1				12.7	1			14-1	8-98	8-1-98
17-273	San Ramon Rd	San Ramon Rd		X	X						1	1	27	1.4	1		0.1				2.4	1	X		14-1	10-98	10-1-98
17-274	San Ramon Rd	San Ramon Rd		X	X						18	18	21	1	1		1.1				19.1	1	X		14-1	8-98	8-1-98
17-274A	San Ramon Rd	San Ramon Rd		X							32	32	11	1.1	1		1.1				33.1	1	X		14-1	10-98	10-1-98
17-275	San Ramon Rd	San Ramon Rd		X	X	X					1.1	1.1	11	1	1		0.1				1.2	1			14-1	2-20-94	
17-276	San Ramon Rd	San Ramon Rd					X	X			1.1	1.1	27	1	1		0.1				1.2	1	X		14-1	8-98	8-1-98
17-277	San Ramon Rd	San Ramon Rd		X	X		X	X			1.1	1.1	11				0.1				1.2	1			14-1		

*AS SLOPE WIDTH FOR ONE SLOPE

P/C = PAVED DRIVE

MM = MONTHLY

HC = HAND CLEANING

MM = MONTHLY

MM = MONTHLY

MM = MONTHLY

5

A = C A YEAR
B = L TWO YEARS
C = L EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANA. INVENTORY

* User: charkawala * 10/10/2015 9:55

CANAL I.D.	FROM	TO	CITY	ROW PROBLEMS	ACCESS PROBLEMS	EASMENT PROBLEMS	ROW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I.D.	SLOPE WIDTH (FT)*	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	T.W WIDTH (FT)	T.W ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	SUPPLEMENTAL MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
17-277	Alameda - 17-276	17-278	Springdale Lakes MCD		X	X				10	10	13	7	1	1	13		1	13	1	X		10-06	10-20-05
17-278	17-277	17-279	Imperial		X	X				76	76	13	6	1	1	7		1	7	1	X		10-06	10-20-05
17-278A	17-278	17-279	17-278 - 17-279		X	X				100	100	11	1	1	1	1		1	1	1	X			
17-280	17-279	17-281	9-28 - 17-281		X	X				70	70	13	1	1	1	1		1	1	1	X		11-06	11-11-05
17-281	17-280	17-282	17-280 - 17-282		X	X				140	140	11	1	1	1	1		1	1	1	X		11-06	11-27-05
17-282	17-281	17-283	17-281 - 17-283		X	X				1	1	17	13	1	1	1		1	1	1	X		11-06	11-12-05
18-128	17-283	18-129	17-283 - 18-129		X	X			X		17	11												
18-129	18-128	18-130	18-128 - 18-130		X	X			X		7	11												
18-130	18-129	18-131	18-129 - 18-131		X	X			X		8	11												
18-131	18-130	18-132	18-130 - 18-132		X	X			X		100	11												
18-132	18-131	18-133	18-131 - 18-133		X	X			X		100	11												
18-133	18-132	18-134	18-132 - 18-134		X	X			X		100	11												
18-134	18-133	18-135	18-133 - 18-135		X	X			X		100	11												
18-135	18-134	18-136	18-134 - 18-136		X	X			X		100	11												
18-136	18-135	18-137	18-135 - 18-137		X	X			X		100	11												
18-137	18-136	18-138	18-136 - 18-138		X	X			X		100	11												
18-138	18-137	18-139	18-137 - 18-139		X	X			X		100	11												
18-139	18-138	18-140	18-138 - 18-140		X	X			X		100	11												
18-140	18-139	18-141	18-139 - 18-141		X	X			X		100	11												
18-141	18-140	18-142	18-140 - 18-142		X	X			X		100	11												
18-142	18-141	18-143	18-141 - 18-143		X	X			X		100	11												
18-143	18-142	18-144	18-142 - 18-144		X	X			X		100	11												
18-144	18-143	18-145	18-143 - 18-145		X	X			X		100	11												
18-145	18-144	18-146	18-144 - 18-146		X	X			X		100	11												
18-146	18-145	18-147	18-145 - 18-147		X	X			X		100	11												
18-147	18-146	18-148	18-146 - 18-148		X	X			X		100	11												
18-148	18-147	18-149	18-147 - 18-149		X	X			X		100	11												
18-149	18-148	18-150	18-148 - 18-150		X	X			X		100	11												
18-150	18-149	18-151	18-149 - 18-151		X	X			X		100	11												
18-151	18-150	18-152	18-150 - 18-152		X	X			X		100	11												
18-152	18-151	18-153	18-151 - 18-153		X	X			X		100	11												
18-153	18-152	18-154	18-152 - 18-154		X	X			X		100	11												
18-154	18-153	18-155	18-153 - 18-155		X	X			X		100	11												
18-155	18-154	18-156	18-154 - 18-156		X	X			X		100	11												
18-156	18-155	18-157	18-155 - 18-157		X	X			X		100	11												
18-157	18-156	18-158	18-156 - 18-158		X	X			X		100	11												
18-158	18-157	18-159	18-157 - 18-159		X	X			X		100	11												
18-159	18-158	18-160	18-158 - 18-160		X	X			X		100	11												
18-160	18-159	18-161	18-159 - 18-161		X	X			X		100	11												
18-161	18-160	18-162	18-160 - 18-162		X	X			X		100	11												
18-162	18-161	18-163	18-161 - 18-163		X	X			X		100	11												
18-163	18-162	18-164	18-162 - 18-164		X	X			X		100	11												
18-164	18-163	18-165	18-163 - 18-165		X	X			X		100	11												
18-165	18-164	18-166	18-164 - 18-166		X	X			X		100	11												
18-166	18-165	18-167	18-165 - 18-167		X	X			X		100	11												
18-167	18-166	18-168	18-166 - 18-168		X	X			X		100	11												
18-168	18-167	18-169	18-167 - 18-169		X	X			X		100	11												
18-169	18-168	18-170	18-168 - 18-170		X	X			X		100	11												
18-170	18-169	18-171	18-169 - 18-171		X	X			X		100	11												
18-171	18-170	18-172	18-170 - 18-172		X	X			X		100	11												
18-172	18-171	18-173	18-171 - 18-173		X	X			X		100	11												
18-173	18-172	18-174	18-172 - 18-174		X	X			X		100	11												
18-174	18-173	18-175	18-173 - 18-175		X	X			X		100	11												
18-175	18-174	18-176	18-174 - 18-176		X	X			X		100	11												
18-176	18-175	18-177	18-175 - 18-177		X	X			X		100	11												
18-177	18-176	18-178	18-176 - 18-178		X	X			X		100	11												
18-178	18-177	18-179	18-177 - 18-179		X	X			X		100	11												
18-179	18-178	18-180	18-178 - 18-180		X	X			X		100	11												
18-180	18-179	18-181	18-179 - 18-181		X	X			X		100	11												
18-181	18-180	18-182	18-180 - 18-182		X	X			X		100	11												
18-182	18-181	18-183	18-181 - 18-183		X	X			X		100	11												
18-183	18-182	18-184	18-182 - 18-184		X	X			X		100	11												
18-184	18-183	18-185	18-183 - 18-185		X	X			X		100	11												
18-185	18-184	18-186	18-184 - 18-186		X	X			X		100	11												
18-186	18-185	18-187	18-185 - 18-187		X	X			X		100	11												
18-187	18-186	18-188	18-186 - 18-188		X	X			X		100	11												
18-188	18-187	18-189	18-187 - 18-189		X	X			X		100	11												
18-189	18-188	18-190	18-188 - 18-190		X	X			X		100	11												
18-190	18-189	18-191	18-189 - 18-191		X	X			X		100	11												
18-191	18-190	18-192	18-190 - 18-192		X	X			X		100	11												
18-192	18-191	18-193	18-191 - 18-193		X	X			X		100	11												
18-193	18-192	18-194	18-192 - 18-194		X	X			X		100	11												
18-194	18-193	18-195	18-193 - 18-195		X	X			X		100	11												
18-195	18-194	18-196	18-194 - 18-196		X	X			X		100	11												
18-196	18-195	18-197	18-195 - 18-197		X	X			X		100	11												
18-197	18-196	18-198	18-196 - 18-198		X	X			X		100	11												
18-198	18-197	18-199	18-197 - 18-199		X	X			X		100	11												
18-199	18-198	18-200	18-198 - 18-200		X	X																		

A = ONCE A YEAR
 B = EVERY TWO YEARS
 C = EVERY THREE YEARS
 Q = QUARTERLY
 M = MONTHLY

* Use table below to determine the

CANAL INVENTORY

CANAL ID	FROM	TO	CITY	R/W PROBLEMS	ACCESS PROBLEMS	EASMENT PROBLEMS	R/W	EASEMENT	NON MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN ID	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TW WIDTH (FT)	TW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	PAST MAINTENANCE DATE
10-194	11-294	1-675							X		5255	23												
11-195	Mexican River	1-681							X		25-65	22												
12-196	S. R. 72	1-176							X		63	22												
12-198	S. R. 72	1-178							X		50	23												
12-199	12-195	1-685							X		175	23												
12-300	1-681	1-178							X		1-15	23												
12-301	1-681	12-205							X		245	24												
12-302	S. R. 72	12-215							X		11-7	24												
12-303	Manderley Creek Line	S. R. 72							X		1-26	24												
12-304	12-195	12-303							X		11-15	24												
12-305	12-194	12-303							X		52-5	24												
13-204	1-178	24-171							X		11	22												
13-206	12-206	1-125							X		1387	23												
13-208	12-208	24-174							X		56-1	24												
13-304	12-195	Mexican River							X		15-45	24												
13-305									X		1-16	24												
13-306									X		1-15	24												
13-307									X		1-15	23												
13-308									X		1-1	24												
13-309									X		12-1	24												
13-310									X		52-1	23												
13-311									X		15-1	24												
13-312									X		11-15	24												
13-313									X		1-1	24												
14-303	S. R. 72	14-174							X		14-15	24												
14-304	Manderley Creek Line	17-171							X		17-1	24												
14-305	17-175	S. R. 72							X		3-15	24												
14-314	S. R. 72	14-171							X		15	24												
14-315	S. R. 72	14-171							X		1-1	24												
14-316	S. R. 72	14-171							X		1-1	24												
15-317	1-675	15-312							X		16-1	24												
15-318	1-681	15-317							X		1-16	24												

* = SLOPE WIDTH FOR ONE SLOPE

PG = PRISON CREW

MM = MENSURATION

HC = HAND CLEANING

NW = CONTRACT MOWING

CMC = CITY MOWING CREW

CMW = CITY MOWING

A = 0 - 1 YEAR
B = 1 - TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

Updated 01/01/2010

CANAL ID	FROM	TO	CITY	R/W PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	NON-MAINTAINED	WORK LENGTH (Ft)	TOTAL LENGTH (Ft)	BASE ID	SLOPE WIDTH (Ft)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TOW WIDTH (Ft)	TOW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SPECIFICATION PAGE	LAST MAINTENANCE DATE	NEXT MAINTENANCE DATE	
25-319	Field	25-320					X	125	125	24													
25-320	Field	25-321					X	125	125	24													
25-321	Field	25-322					X	125	125	24													
25-322	Haystack Run	25-323					X	125	125	24													
25-323	Field	25-324					X	125	125	24													
25-324	Field	25-325					X	125	125	24													
26-325A	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
26-325B	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
26-325C	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
26-326	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
26-327	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-328A	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-328B	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-328C	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-329	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-330	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-331	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-332	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-332A	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-333	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-334	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-335	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-336	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-337	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-338	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-339	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-340	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09
27-341	Haystack Run	Haystack Run			X	X		125	125	27	1	1.12	1.12	125	1.12	1.12	1.12	1.12	X	1	1	5.00	4/27/09

1" = SLOPE WIDTH FOR ONE SLOPE

HC = HAND CROW

MC = MACH CROW

HC = HAND CLEANING

MC = CONTRACT MOWING

CNC = COUNTY MOWING CREW

WWW.CITY.MOWING

* ငါတို့အတွက်အရေးကြီးသောအချက်မှာ အသက် ၁၈ နှစ်အောက်ကလေးများကို ခုခံရန်ဖြစ်သည်။

CANAL INVENTORY

CANAL ID	FROM	TO	CITY	RAW PROBLEMS ACCESS PROBLEMS EASMENT PROBLEMS	ACCESS RAW	EASEMENT	NOT MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN ID	SLOPE WIDTH (FT)	STEEP ACRES MAINTAINED (ONE SLOPE)	STEEP ACRES MAINTAINED (BOTH SLOPES)	TOW WIDTH (FT)	FW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SHEET PAGE	NEXT MAINTENANCE DATE	PAST MAINTENANCE DATE	
27-342	Blackhawk and	Johnson Rd			X	X	X		175	15											1		
27-343	Kates Dr	Johnson Rd			X	X	X		375	15											1		
27-344	Johnson Rd	Johnson Rd			X	X		400	400	14	0	0	0	0	0	0	0	0			1		
27-345	Johnson Rd	Johnson Rd			X	X		2000	2000	11	0	0	0	0	0	0	0	0			1		
27-346	Blackhawk and	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1995	1995
27-346	Johnson Rd	Johnson Rd						500	500	14	0	0	0	0	0	0	0	0			1		
27-346	Johnson Rd	Johnson Rd						4000	4000	14	0	0	0	0	0	0	0	0			1		
27-346	Johnson Rd	Johnson Rd						200	200	14	0	0	0	0	0	0	0	0			1		
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1		
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14	0	0	0	0	0	0	0	0			1	1990	1990
27-347	Johnson Rd	Johnson Rd			X	X		1000	1000	14													

• **5.091 22.9.11** (CR 24) 51.7ft

PC = PERSONAL

$$M^{\text{TC}} = M \setminus \{N, I, P, S, Z, B, C\}$$
$$F_3C = \frac{1}{2} \Delta N_1 + \frac{1}{2} C_{12} \Delta N_2 + \frac{1}{2} C_{13} \Delta N_3$$
$$1.64 \times 10^{-2} \text{ mol L}^{-1} \text{ NaClO}_3 \text{ and } 1.64 \times 10^{-2} \text{ mol L}^{-1} \text{ NaCl}$$

Q10C $\text{Jm}^2 \text{ s}^{-1} \text{ m}^{-1} \text{ K}^{-1}$ $\text{Jm}^2 \text{ s}^{-1} \text{ m}^{-1} \text{ K}^{-1}$

A = 1 YEAR
B = 2 YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

File share: excel / inventory.xls

CANAL I.D.	FROM	TO	CITY	RAW PROBLEMS ACCESS PROBLEMS EASEMENT PROBLEMS	ACCESS RAW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FEET)	TOTAL LENGTH (FEET)	BASIN I.D.	SLOPE WIDTH (FEET)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	LOW WIDTH (FEET)	LOW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
27-059	2nd Div. canal A	N. Lumberton Dr. / 1st Div. St.						4.45	15	0	11.4	2.0	32	0.0	0.0	0.0	25K	0		0.0		
28-040	1st Div. No.	Glenn Rd.		X	X			591	592	15	15	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-059	1st Div. No.	Interstate 10 / 1st Div.		X		X		1.00	27								0			0		
28-060	1st Div. No.	Interstate 10 / 1st Div.		X		X		1.00	27								0			0		
28-061	1st Div. No.	Interstate 10 / 1st Div.		X		X		1.00	27								0			0		
28-062	1st Div. No.	1st Div. No.		X		X		1.00	27								0			0		
28-063	1st Div. No.	Interstate 10 / 1st Div.		X	X			1.00	27	3	0.0					0.0	0		X	0	0.0	0.0
28-064	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0			0		
28-065	1st Div. No.	Stacy Rd.						1.00	10	16	16	0.0	0.0	0	0	0.0	0			0		
28-066	1st Div. No.	Stacy Rd.						1.00	10	16	16	0.0	0.0	0	0	0.0	0			0		
28-067	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-068	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-069	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-070	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-071	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-072	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-073	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-074	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-075	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-076	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-077	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-078	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-079	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-080	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-081	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-082	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-083	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-084	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-085	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-086	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-087	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-088	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-089	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0
28-090	1st Div. No.	Stacy Rd.		X	X			1.00	10	16	16	0.0	0.0	0	0	0.0	0		X	0	0.0	0.0

1 = SLOPE WIDTH FOR ONE SLOPE
R/C = REGIONAL COUNCIL
M/C = MUNICIPALITY
H/C = HAND CLEANSING
M/W = CONTRACT MAINTENANCE
C/MC = COUNTY MAINTENANCE

A = ONCE A YEAR
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

* Use tabular spreadsheet for maintenance

CANAL INVENTORY

CANAL ID.	FROM	TO	CITY	RAW PROBLEMS	ACCESS PROBLEMS	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN ID	SLOPE WIDTH (FT)	SLOPE ACRES (ON SLOPE)	STAINING (ON SLOPE)	SLOPE ACRES (ON SLOPE)	STAINING (ON SLOPE)	FW WIDTH (FT)	FW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE	
28-1850	28-1850 (S. Schmale Rd)	28-1850 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1851	28-1851 (S. Schmale Rd)	28-1851 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1852	28-1852 (S. Schmale Rd)	28-1852 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1853	28-1853 (S. Schmale Rd)	28-1853 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1854	28-1854 (S. Schmale Rd)	28-1854 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1855	28-1855 (S. Schmale Rd)	28-1855 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1856	28-1856 (S. Schmale Rd)	28-1856 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1857	28-1857 (S. Schmale Rd)	28-1857 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1858	28-1858 (S. Schmale Rd)	28-1858 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1859	28-1859 (S. Schmale Rd)	28-1859 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1860	28-1860 (S. Schmale Rd)	28-1860 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1861	28-1861 (S. Schmale Rd)	28-1861 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1862	28-1862 (S. Schmale Rd)	28-1862 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1863	28-1863 (S. Schmale Rd)	28-1863 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1864	28-1864 (S. Schmale Rd)	28-1864 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1865	28-1865 (S. Schmale Rd)	28-1865 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1866	28-1866 (S. Schmale Rd)	28-1866 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1867	28-1867 (S. Schmale Rd)	28-1867 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1868	28-1868 (S. Schmale Rd)	28-1868 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1869	28-1869 (S. Schmale Rd)	28-1869 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1870	28-1870 (S. Schmale Rd)	28-1870 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1871	28-1871 (S. Schmale Rd)	28-1871 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1872	28-1872 (S. Schmale Rd)	28-1872 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1873	28-1873 (S. Schmale Rd)	28-1873 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1874	28-1874 (S. Schmale Rd)	28-1874 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1875	28-1875 (S. Schmale Rd)	28-1875 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1876	28-1876 (S. Schmale Rd)	28-1876 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1877	28-1877 (S. Schmale Rd)	28-1877 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1878	28-1878 (S. Schmale Rd)	28-1878 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1879	28-1879 (S. Schmale Rd)	28-1879 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1880	28-1880 (S. Schmale Rd)	28-1880 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1881	28-1881 (S. Schmale Rd)	28-1881 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1882	28-1882 (S. Schmale Rd)	28-1882 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1883	28-1883 (S. Schmale Rd)	28-1883 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1884	28-1884 (S. Schmale Rd)	28-1884 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1885	28-1885 (S. Schmale Rd)	28-1885 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1886	28-1886 (S. Schmale Rd)	28-1886 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1887	28-1887 (S. Schmale Rd)	28-1887 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1888	28-1888 (S. Schmale Rd)	28-1888 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1889	28-1889 (S. Schmale Rd)	28-1889 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1890	28-1890 (S. Schmale Rd)	28-1890 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1891	28-1891 (S. Schmale Rd)	28-1891 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1892	28-1892 (S. Schmale Rd)	28-1892 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1893	28-1893 (S. Schmale Rd)	28-1893 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1894	28-1894 (S. Schmale Rd)	28-1894 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1895	28-1895 (S. Schmale Rd)	28-1895 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1896	28-1896 (S. Schmale Rd)	28-1896 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1897	28-1897 (S. Schmale Rd)	28-1897 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1898	28-1898 (S. Schmale Rd)	28-1898 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1899	28-1899 (S. Schmale Rd)	28-1899 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1900	28-1900 (S. Schmale Rd)	28-1900 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1901	28-1901 (S. Schmale Rd)	28-1901 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1902	28-1902 (S. Schmale Rd)	28-1902 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1903	28-1903 (S. Schmale Rd)	28-1903 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16
28-1904	28-1904 (S. Schmale Rd)	28-1904 (S. Schmale Rd)						2400	2400	16	16	1		16		16		16	16	16		16	16	16	16

1 = SLOPE WIDTH FOR ONE SLOPE

RAW = RAW PROBLEMS

MM = MUD PROBLEMS

RC = ROAD CLEANING

MW = MUD PROBLEMS

CM = CUD PROBLEMS

CITY = CITY MOANS

A = 1 YEAR
B = 2 YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

Countywide Inventory of Canals

CANAL I.D.	FROM	TO	CITY	ROW PROBLEMS	ACCESS PROBLEMS	EASEMENT PROBLEMS	NON-MAINTAINED	WORK LENGTH (F-T)	TOTAL LENGTH (F-T)	BASIN I.D.	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SIDES)	TW WIDTH (F-T)	TW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	PAST MAINTENANCE DATE
29-405	East	South	...	X	X		X		360	22												
29-406	Madison River	Madison River	...	X	X		X		1,000	22												
29-407	...	...	...	X	X		X		400	22												
29-408	Madison River	North Madison River	...	X	X		X		1,700	22												
29-409	North Madison River	East Madison River	...	X	X		X		1,700	22												
29-410	Madison River	...	...	X	X		X		1,100	22												
29-411	Madison River	North Madison River	...	X	X		X		120	22												
29-412	Madison River	...	...	X	X		X		600	22												
29-413	Madison River	North Madison River	...	X	X		X		14,000	22												
29-414	...	Deep Branch	...	X	X		X		1,000	21												
29-415	...	Deep Branch	...	X	X		X		800	21												
30-100	...	...	...			X	X		100	22	1	100							X		8/99	8/99
30-100X	...	...	...			X	X		800	22	5	1,000							X		8/99	8/99
30-101	...	...	...			X			750	22	1	1,000									8/99	8/99
30-301	North River Rd	East Madison River	...	X	X		X		1,000	22												
30-413	Madison River	...	...	X	X		X		400	22												
30-427	East Madison River Rd	Madison River	...						600	22												
30-428	West Madison River Rd	Madison River	...	X	X		X		400	22												
30-429	South Madison River Rd	Madison River	...	X	X		X		800	22												
30-431	West Madison River Rd	Madison River	...	X	X		X		10,000	22												
30-432	South Madison River Rd	Madison River	...	X	X		X		1,000	16												
30-433	South Madison River Rd	Madison River	...	X	X		X		10,000	22												
30-434	South Madison River Rd	Madison River	...				X		1,000	22												
30-435	Madison River	Madison River	...	X	X		X		1,000	22												
30-436	South Madison River Rd	Madison River	...	X	X		X		1,000	22												
30-437	Madison River	Madison River	...	X	X		X		600	22												
30-438	South Madison River Rd	Madison River	...	X	X		X		7,000	22												
30-439	Madison River	Madison River	...						1,000	22												
30-440	South Madison River Rd	Madison River	...				X		1,000	22												
30-441	Madison River	South Madison River Rd	...			X	X	X	1,000	22												
30-442	Madison River	Madison River	...			X	X	X	700	22												
30-443	Madison River	Madison River	...				X		1,000	22												

1 = SLOPE WIDTH FOR ONE SLOPE
PC = PRISON CREW
MM = MENZIE MOVERS
HC = HARD CLANNING
MW = CONTRACT MOVERS
LMO = COUNTY MOVERS CREW

A = ONCE A YEAR
B = EVERY TWO YEARS
C = EVERY THREE YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

Use of this inventory reflects in monthly fees

CANAL ID	FROM	TO	CITY	ROW PROBLEMS	ACCESS PROBLEMS	ACCESS	ROW	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	RASIN ID	SLOPE WIDTH (FT)	SLOPE ACRES MAINTAINED (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TAW WIDTH (FT)	TAW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	MULTI-PURPOSE MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
10-424	10-424	10-424	10-424																					
10-425	10-425	10-425	10-425																					
10-426	10-426	10-426	10-426																					
10-427	10-427	10-427	10-427																					
10-428	10-428	10-428	10-428																					
10-429	10-429	10-429	10-429																					
10-430	10-430	10-430	10-430																					
10-431	10-431	10-431	10-431																					
10-432	10-432	10-432	10-432																					
10-433	10-433	10-433	10-433																					
10-434	10-434	10-434	10-434																					
10-435	10-435	10-435	10-435																					
10-436	10-436	10-436	10-436																					
10-437	10-437	10-437	10-437																					
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10-473	10-473	10-473	10-473																					
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10-606 WORTHINGTON,

A = 1 YEAR
B = 2 YEARS
C = 3 YEARS
Q = QUARTERLY
M = MONTHLY

CANAL INVENTORY

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CANAL I.D.	FROM	TO	CITY	RAW PROBLEMS ACCESS PROBLEMS EASEMENT PROBLEMS	ACCESS ROW	EASEMENT NON-MAINTAINED	WORK LENGTH (FEET)	TOTAL LENGTH (FEET)	BASIN I.D.	SLOPE WIDTH (FEET)	SLOPE ACRES MAINTAINED (CONCELOPE)	SLOPE ACRES MAINTAINED (ORTH SLOPE)	FW WIDTH (FEET)	FW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD OF MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	SENT MAINTENANCE DATE	PAST MAINTENANCE DATE
35-450	Reynolds Rd. Minn.	N. 1st St. Minn.	Minneapolis					17													
35-451	Menominee Rd. Minn.	1st St. Minn.	Minneapolis	X	X	X		18													
35-452	Field	5th St. Minn.	Minneapolis	X	X	X		18													
35-453	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18		102		11								12-98	12-23-97
35-454	5th St. Minn.	5th St. Minn.	Minneapolis	X	X	X		18													
35-455	5th St. Minn.	5th St. Minn.	Minneapolis					18													
35-456	5th St. Minn.	5th St. Minn.	Minneapolis					18													
35-457	5th St. Minn.	5th St. Minn.	Minneapolis	X		X		18													
35-458	5th St. Minn.	5th St. Minn.	Minneapolis	X		X		18													
35-459	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-460	5th St. Minn.	5th St. Minn.	Minneapolis	X	X	X		18													
35-461	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-462	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-463	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-464	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-465	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-466	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-467	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-468	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-469	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-470	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-471	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-472	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-473	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-474	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-475	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-476	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-477	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-478	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-479	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-480	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-481	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-482	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-483	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-484	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-485	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-486	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-487	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-488	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-489	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-490	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-491	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-492	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-493	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-494	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-495	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-496	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-497	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-498	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-499	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													
35-500	5th St. Minn.	5th St. Minn.	Minneapolis		X	X		18													

T = SLOPE WIDTH FOR ONE SLOPE
 RC = PRISON DREW
 MM = MUNI/CMO/NG
 MC = MAND CLEANING
 MW = CONTRACT MAINTENANCE
 MC = COUNTY MAND DREW

A = ONCE A YEAR
 B = EVERY TWO YEARS
 C = EVERY THREE YEARS
 Q = QUARTERLY
 M = MONTHLY

File: 01/01/1998 10:00:00 AM 01/01/1998

CANAL INVENTORY

CANAL I.D.	FROM	TO	CITY	R/W PROBLEMS	ACCESS PROBLEMS	EASEMENT	NON-MAINTAINED	WORK LENGTH (FT)	TOTAL LENGTH (FT)	BASIN I.D.	SLOPE WIDTH (FT)	SLOPE ACRES (ONE SLOPE)	SLOPE ACRES MAINTAINED (BOTH SLOPES)	TOW WIDTH (FT)	TOW ACRES MAINTAINED	TOTAL CANAL ACRES MAINTAINED	METHOD MAINTENANCE	FREQUENCY OF MAINTENANCE	CONTRACT	SECTION PAGE	NEXT MAINTENANCE DATE	LAST MAINTENANCE DATE
38-467	East	West - Dwyer Rd	W. W.				X		11	21												
38-468	West	North - Dwyer Rd	W. W.			X	X	X	12	20												
38-469	West	North - Dwyer Rd	W. W.		X	X	X	X	12	20												
38-470	Matheny Bayou	North - Dwyer Rd	W. W.		X	X	X	X	11	20												
38-471	Matheny Bayou	North - Dwyer Rd	W. W.		X	X	X	X	12	18												
38-472	Matheny	East	W. W.		X	X	X	X	11	19												
38-473	North - Dwyer Rd	East	W. W.		X	X			11	11	20		11				11	11			11	11
38-474	South - Dwyer Rd	East	W. W.	X	X				11	11	20		11				11	11			11	11
38-475	West - Matheny Bayou	East	W. W.		X	X			11	11	20		11				11	11			11	11
38-476	West	East - Dwyer Rd	W. W.		X	X			11	11	20		11				11	11			11	11
38-477	East - Dwyer Rd	West	W. W.		X	X			11	11	4	11	11				11	11			11	11
38-478	East - Dwyer Rd	West	W. W.		X	X			11	11	4	11	11				11	11			11	11
GRAND TOTALS =												21.0%	1.149%	250.0	1.700%							
BASIN I.D.	NAMES OF BASINS	NON MAINTAINED																				
1	Whitaker Bayou																					
2	Business District																					
3	Hudson Bayou																					
4	Phillippi Creek																					
5	Matheny Creek																					
6	Eligraw Bayou																					
7	Holiday Bayou																					
8	Clower Creek																					
9	Catfish Creek																					
10	North Creek																					
11	South Creek																					
12	Fox Creek																					
13	Slakett Creek																					
14	Curry Creek																					

1 = WIDTH WIDTH FOR ONE SLOPE
 MD = MUD MOVING
 MM = MUD MOVING
 MC = MUD CLEANING
 MW = MUD MOVING
 MU = MUD MOVING

1998 $\leq$ = 172
 0.16 = 14
 1998 = 172

CANAL INVENTORY

[illegible]

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Uplands Hw.	Parkview Dr	Edwards Dr.	792	12	8	X			X			1
DeSoto Rd	RxR Tracks	Washington Bv. North	3,696	18	14		X					1
DeSoto Rd	RxR Tracks	Washington Bv. North	3,696	24	12	X						1
DeSoto Rd.	Washington Bv. North	Tuttle Av.	3,280	33	21		X					1
DeSoto Rd.	Washington Bv. North	Tuttle Av.	3,280	24	13	X						1
DeSoto Rd.	Tuttle Av	Lockwood Ridge Rd	2,640	24	13	X						1
DeSoto Rd	Tuttle Av	Lockwood Ridge Rd	2,640	18	10		X					1
DeSoto Rd	Lockwood Ridge Rd	Isabella Av.	528	6	3		X					4
DeSoto Rd	Lockwood Ridge Rd	Isabella Av.	528	6	3	X						4
DeSoto Rd	Isabella Av.	Capitan Av	1,584	17	5		X					4
DeSoto Rd	Isabella Av.	Capitan Av	1,584	13	6	X						4
DeSoto Rd	Capitan Av	San Jose Dr	2,640	15	6		X					4
DeSoto Rd	Capitan Av	San Jose Dr	2,640	15	8	X						4
DeSoto Rd	San Jose Dr	Longwood Run Bv	4,752	22	4		X					4
DeSoto Rd	San Jose Dr	Longwood Run Bv	4,752	16	4			X				4
DeSoto Rd	Harold Av.	Honore Av.	2,112	10	6		X					25
DeSoto Rd	Harold Av.	Honore Av.	2,112	13	6	X						25
Harold Av	DeSoto Rd	47th Street	2,640	10	5		X					4
Harold Av.	DeSoto Rd	47th Street	2,640	9	5	X						4
Sacramento St	Harold Av.	Pavement Ends / Avant St	528	6	3		X					25
Sacramento St	Harold Av.	Pavement Ends / Avant St	528	5	3	X						25
San Jose Dr	47th Street	Tampico Dr.	2,112	7	3	X						4
San Jose Dr	47th Street	Tampico Dr	2,112	10	7		X					4
San Jose Dr	Tampico Dr	DeSoto Rd	1,320	7	3			X				4
San Jose Dr	Tampico Dr	DeSoto Rd	1,320	3	3				X			4
San Jose Way	San Jose Dr	47th Street	264	5	3			X				4
San Jose Way	San Jose Dr	47th Street	264	10	3				X			4
Evora Av	DeSoto Rd	San Luis Dr	528	11	6			X				4
Evora Av	DeSoto Rd.	San Luis Dr	528	11	6			X				4
Felipe Ln	San Jose Dr.	Evora Av.	264	5	4	X						4
Felipe Ln	San Jose Dr	Evora Av.	264	7	3		X					4
Durango Av	San Luis Dr.	DeSoto Rd	528	6	1			X				4
Durango Av	San Luis Dr	DeSoto Rd	528	5	2				X			4
Carmen Av	DeSoto Rd	San Luis Dr	528	6	4			X				4
Carmen Av	DeSoto Rd	San Luis Dr	528	8	4				X			4
Harbours Av	San Luis Dr	DeSoto Rd	528	5	2			X				4

13 19 23 21 22 23 24 25 26 27

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Barbarosa Av	San Luis Dr	DeSoto Rd	528	6	4				X		X	4
Avila Av	DeSoto Rd	San Luis Dr	528	7	3			X			X	4
Avila Av	DeSoto Rd	San Luis Dr	528	7	3				X		X	4
Mink Rd	DeSoto Rd	47th Street	2,112	9	5			X			X	4
Mink Rd	DeSoto Rd	47th Street	2,112	5	4				X		X	4
Mink Rd	47th Street	Cul - De - Sac	1,584	4	3			X			X	4
Mink Rd	47th Street	Cul - De - Sac	1,584	4	3				X		X	4
Mink Rd	42nd Street	Gocio Rd	2,642	10	5			X			X	4
Mink Rd	42nd Street	Gocio Rd	2,642	9	5				X		X	4
Mink Way	Mink Rd	Cul - De - Sac	528	4	3	X					X	4
Mink Way	Mink Rd	Cul - De - Sac	528	4	3		X				X	4
47th Street	Mink Rd	Harold Av	6,864	11	9	X					X	4
47th Street	Mink Rd	Harold Av	6,864	9	4		X				X	4
47th Street	Lockwood Ridge Rd	Shade Av North	5,280	8	4	X					X	4
47th Street	Lockwood Ridge Rd	Shade Av North	5,280	7	4		X				X	4
47th Street	Carmichael Av	Ashberry Dr	528	7	3	X					X	1
47th Street	Carmichael Av	Ashberry Dr	528	15	9		X				X	1
47th Street	Carmichael Av	Washington Bv North	792	15	5	X					X	1
47th Street	Carmichael Av	Washington Bv North	792	0	0		X				X	1
Angeles Av	DeSoto Rd	San Juan Dr	528	7	5			X			X	4
Angeles Av	DeSoto Rd	San Juan Dr	528	7	5	X					X	4
Capitan Av	San Juan Dr	DeSoto Rd	528	6	4				X		X	4
Capitan Av	San Juan Dr	DeSoto Rd	528	7	4			X			X	4
San Juan Dr	DeSoto Rd	Prado Dr	1,584	5	3			X			X	4
San Juan Dr	DeSoto Rd	Prado Dr	1,584	7	3				X		X	4
Ventura Av	San Juan Dr	Nogales Dr	792	5	2	X					X	4
Ventura Av	San Juan Dr	Nogales Dr	792	5	2		X				X	4
Nogales Dr	Angeles Av	Mink Rd	792	4	2	X					X	4
Nogales Dr	Angeles Av	Mink Rd	792	7	3		X				X	4
Malaga Av	Nogales Dr	Prado Dr	792	5	4				X		X	4
Malaga Av	Nogales Dr	Prado Dr	792	5	4			X			X	4
San Luis Dr	Malaga Av	Evora Av	1,584	5	2	X					X	4
San Luis Dr	Malaga Av	Evora Av	1,584	6	3		X				X	4
San Luis Dr	Evora Av	San Jose Dr	528	4	3	X					X	4
San Luis Dr	Evora Av	San Jose Dr	528	9	5		X				X	4
Prado Dr	San Juan Dr	Mink Rd	2,112	8	2	X					X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Prado Dr	San Juan Dr	Mink Rd	2,112	7	6		X				X	4
Prado Dr	Mink Rd	To Cul - De - Sac	2,112	5	3	X					X	4
Prado Dr	Mink Rd	To Cul - De - Sac	2,112	10	5		X				X	4
Habana Dr	Prado Dr	Tampico Dr	264	6	3			X			X	4
Habana Dr	Prado Dr	Tampico Dr	264	7	3				X		X	4
Habana Dr	Tampico Dr	47th Street	1,584	4	4			X			X	4
Habana Dr	Tampico Dr	47th Street	1,584	4	3				X		X	4
Tampico Dr	Mink Rd	San Jose Dr	2,112	6	6	X					X	4
Tampico Dr	Mink Rd	San Juan Dr	2,112	9	3		X				X	4
Seville Dr	Tampico Dr	47th Street	1,320	5	3			X			X	4
Seville Dr	Tampico Dr	47th Street	1,320	7	4				X		X	4
Elfrida Av	Tampico Dr	47th Street	1,056	7	4			X			X	4
Elfrida Av	Tampico Dr	47th Street	1,056	7	4				X		X	4
Velarde Ln	Elfrida Av	Seville Dr	320	6	3	X					X	4
Velarde Ln	Elfrida Av	Seville Dr	320	4	2		X				X	4
Valle Ln	Seville Dr	Elfrida Av	528	6	3	X					X	4
Valle Ln	Seville Dr	Elfrida Av	528	6	2		X				X	4
Del Monte Av	Tampico Dr	47th Street	1,056	7	4			X			X	4
Del Monte Av	Tampico Dr	47th Street	1,056	7	4				X		X	4
Capri Av	47th Street	Tampico Dr	1056	7	4			X			X	4
Capri Av	47th Street	Tampico Dr	1056	6	3				X		X	4
Barcelona Av	Tampico Dr	47th Street	1056	7	4			X			X	4
Barcelona Av	Tampico Dr	47th Street	1056	7	3				X		X	4
Almanza Av	47th Street	Tampico Dr	1056	6	3			X			X	4
Almanza Av	47th Street	Tampico Dr	1056	6	3				X		X	4
Ravenwood Dr	DeSoto Rd	Ravenwood Dr	6336	9	1			X			X	4
Ravenwood Dr	DeSoto Rd	Ravenwood Dr	6336	6	1				X		X	4
Ravenwood Pl	Ravenwood Dr	To Cul - De - Sac	792	5	3	X					X	4
Ravenwood Pl	Ravenwood Dr	To Cul - De - Sac	792	6	3		X				X	4
Balsam Ct	Ravenwood Dr	To Cul - De - Sac	560	9	5	X					X	4
Balsam Ct	Ravenwood Dr	To Cul - De - Sac	560	8	4		X				X	4
Ironwood Ct	Ravenwood Dr	To Cul - De - Sac	264	8	3	X					X	4
Ironwood Ct	Ravenwood Dr	To Cul - De - Sac	264	7	4		X				X	4
Trentwood Pl	Ravenwood Dr	To Cul - De - Sac	528	8	4	X					X	4
Trentwood Pl	Ravenwood Dr	To Cul - De - Sac	528	8	4		X				X	4
Ravenwood Ct	Ravenwood Dr	To Cul - De - Sac	528	10	8			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Ravenwood Ct	Ravenwood Dr.	To Cul - De - Sac	528	10	8				X		X	4
Ravenwood Way	Ravenwood Dr	To Cul - De - Sac	528	13	7			X			X	4
Ravenwood Ct	Ravenwood Dr.	To Cul - De - Sac	528	13	7				X		X	4
Muriwood Ct	Ravenwood Dr	To Cul - De - Sac	264	8	6			X			X	4
Muriwood Ct	Ravenwood Dr.	To Cul - De - Sac	264	8	5				X		X	4
Conservatory Dr	University Pkwy	Shady Brook Ln	2,640	6	2			X			X	4
Conservatory Dr	University Pkwy	Shady Brook Ln.	2,640	6	2				X		X	4
42nd Street	Hauri Rd.	Mink Rd	2,640	0	0	X					X	1
42nd Street	Hauri Rd.	Mink Rd	2,640	6	3		X				X	1
42nd Street	Lockwood Ridge Rd	Brazilnut Av	792	9	6	X					X	1
42nd Street	Lockwood Ridge Rd	Brazilnut Av.	792	10	6		X				X	1
42nd Street	Brazilnut av	Almond Av	264	7	4	X					X	1
42nd Street	Brazilnut Av	Almond Av.	264	11	5		X				X	1
Hidden Forest Way	Mink Rd	Hidden Forest Ln	1,056	9	3	X					X	4
Hidden Forest Way	Mink Rd	Hidden Forest Ln	1,056	9	3		X				X	4
Hidden Forest Ln	Cul - De - Sac	To Cul - De - Sac	2,112	6	2			X			X	4
Hidden Forest Ln	Cul - De - Sac	To Cul - De - Sac	2,112	6	2				X		X	4
Hidden Forest Dr	Cul - De - Sac	To Cul - De - Sac	1,584	6	2			X			X	4
Hidden Forest Dr	Cul - De - Sac	To Cul - De - Sac	1,584	6	2				X		X	4
Lost Forest Rd	Hidden Forest Dr	To Cul - De - Sac	1,056	8	4			X			X	4
Lost Forest Rd	Hidden Forest Dr	To Cul - De - Sac	1,056	7	3				X		X	4
Lost Forest Ln	Hidden Forest Rd	To Cul - De - Sac	528	6	4	X					X	4
Lost Forest Ln	Hidden Forest Rd	To Cul - De - Sac	528	5	2		X				X	4
Gocio Rd.	East End Of Gocio Rd	Mink Rd	1,320	16	9		X				X	4
Gocio Rd	East End Of Gocio Rd.	Mink Rd	1,320	16	9	X					X	4
Gocio Rd.	Mink Rd	Lockwood Ridge Rd	3,696	16	9	X					X	4
Gocio Rd	Mink Rd	Lockwood Ridge Rd	3,696	11	7		X				X	4
Lockwood Ridge Rd	University Pkwy.	Gocio Rd	9,240	0	0			X			X	4
Lockwood Ridge Rd	University Pkwy	Gocio Rd.	9,240	0	0				X		X	4
Lockwood Ridge Rd	Gocio Rd	17th Street	3,960	0	0			X			X	4
Lockwood ridge Rd	Gocio Rd.	17th Street	3,960	0	0				X		X	4
Lockwood Ridge Rd	Webber Street	Dawson Street	1,056	0	0			X			X	4
Lockwood Ridge Rd	Webber Street	Dawson Street	1,056	0	0				X		X	4
Lockwood Ridge rd	Webber Street	Bee Ridge Rd	3,472	0	0			X			X	4
Lockwood Ridge Rd	Webber Street	Bee Ridge Rd	3,472	0	0				X		X	4
Lockwood Ridge Rd	Bee Ridge Rd	Wilkinson Rd	2,376	8	4			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Lockwood Ridge Rd	Bee Ridge Rd	Wilkinson Rd	2,376	6	3				X		X	4
Lockwood Ridge Rd	Wilkinson Rd	Jamaica Street	1,056	8	4			X			X	4
Lockwood Ridge Rd	Wilkinson Rd	Jamaica Street	1,056	8	7				X		X	4
Lockwood Ridge Rd	Jamaica Street	To Barricades	528	6	6			X			X	4
Lockwood Ridge Rd	Jamaica Street	To Barricades	528	0	0				X		X	4
Lockwood Ridge Rd	Gypsy Street	Ashton Rd	1,056	9	7			X			X	4
Lockwood Ridge Rd	Gypsy Street	Ashton Rd	1,056	7	6				X		X	4
Lockwood Ridge Rd	Ashton Rd	Clark Rd	2,640	9	7			X			X	4
Lockwood Ridge Rd	Ashton Rd	Clark Rd	2,640	6	6				X		X	4
Lockwood Ridge Rd	Clark Rd	Savage Rd	2,640	8	6			X			X	4
Lockwood Ridge Rd	Clark Rd	Savage Rd	2,640	6	5				X		X	4
Lockwood Ridge Rd	Savage Rd	Regatta Dr	1,848	0	0			X			X	4
Lockwood Ridge Rd	Savage Rd	Regatta Dr	1,848	0	0				X		X	4
Traylor Av	University Pkwy	47th Street	5,280	9	6			X			X	4
Traylor Av	University Pkwy	47th Street	5,280	7	6				X		X	4
Turtle Av	University Pkwy	DeSoto Rd	1,056	9	7			X			X	1
Turtle Av	University Pkwy	DeSoto Rd	1,056	7	7				X		X	1
Turtle Av	DeSoto Rd	Dr. M. L. King Jr Way	2,640	6	4			X			X	1
Turtle Av	DeSoto Rd	Dr. M. L. King Jr Way	2,640	5	3				X		X	1
Turtle Av	Dr. M. L. King Jr Way	17th Street	2,376	0	0			X			X	1
Turtle Av	Dr. M. L. King Jr Way	17th Street	2,376	0	0				X		X	1
Turtle Av	Webber Street	Bee Ridge Rd	3,168	0	0			X			X	4
Turtle Av	Webber Street	Bee Ridge Rd	3,168	0	0				X		X	4
Shade Av North	University Pkwy	DeSoto Rd	2,376	8	6			X			X	1
Shade Av North	University Pkwy	DeSoto Rd	2,376	11	7				X		X	1
Shade Av North	DeSoto Rd	47th Street	2,640	7	7			X			X	1
Shade Av North	DeSoto Rd	47th Street	2,640	11	8				X		X	1
Shade Av North	47th Street	Cul - De - Sac	1,320	0	0			X			X	1
Shade Av North	47th Street	Cul - De - Sac	1,320	0	0				X		X	1
Shade Av South	Hibiscus Street	Bee Ridge Rd	4,488	5	9			X			X	4
Shade Av South	Hibiscus Street	Bee Ridge Rd	4,488	0	0				X		X	4
Shade Av South	Bee Ridge Rd	Palm Terr	2,640	13	8			X			X	4
Shade Av South	Bee Ridge Rd	Palm Terr	2,640	10	6				X		X	4
Middle Av	61st Street	53rd Street	2,640	8	3			X			X	1
Middle Av	61st Street	53rd Street	2,640	0	0				X		X	1
Middle Av	51st Street	47th Street	1,056	5	3			X			X	1

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Middle Av.	51st Street	47th Street	1,056	0	0				X		X	1
Middle Av.	Start Of Street North	47th Street	1,056	16	8			X			X	1
Middle Av.	Start Of Street North	47th Street	1,056	0	0				X		X	1
61st Street	Middle Av.	Shade Av. North	2,376	11	8	X					X	1
61st Street	Middle Av.	Shade Av. North	2,376	10	6		X				X	1
61st Street	Tuttle Av.	Lockwood Ridge Rd.	2,640	8	6	X					X	1
61st Street	Tuttle Av.	Lockwood Ridge Rd.	2,640	7	3		X				X	1
59th Street	Lockwood Ridge Rd.	Middle Av.	7,920	12	9	X					X	1
59th Street	Lockwood Ridge Rd.	Middle Av.	7,920	10	7		X				X	1
57th Street	Osprey Av.	North Washington Bv.	1,056	5	2	X					X	1
57th Street	Osprey Av.	North Washington Bv.	1,056	9	4		X				X	1
57th Street	Start West Of Shade Av	Lockwood Ridge Rd.	6,072	12	6	X					X	1
57th Street	Start West Of Shade Av	Lockwood Ridge Rd.	6,072	10	5		X				X	1
53rd Street	Lockwood Ridge Rd.	Middle Av.	7,656	10	6	X					X	1
53rd Street	Lockwood Ridge Rd.	Middle Av.	7,656	8	5		X				X	1
51st Street	Lockwood Ridge Rd.	Shade Av. North	5,280	8	4	X					X	1
51st Street	Lockwood Ridge Rd.	Shade Av. North	5,280	9	3		X				X	1
51st Street	Middle Av.	Industrial Park	1,320	8	5	X					X	1
51st Street	Middle Av.	Industrial Park	1,320	6	3		X				X	1
49th Street	Shade Av. North	Ends East Of Deyman Av	7,920	9	4	X					X	4
49th Street	Shade Av. North	Ends East Of Deyman Av	7,920	8	4		X				X	4
44th Street	Lockwood Ridge Rd.	Almond Av.	1,056	12	8	X					X	1
44th Street	Lockwood Ridge Rd.	Almond Av.	1,056	12	8		X				X	1
40th Street	Brazilnut Av.	Lockwood Ridge Rd.	792	10	5	X					X	1
40th Street	Brazilnut Av.	Lockwood Ridge Rd.	792	8	6		X				X	1
Almond Av.	Start Of Pavement	44th Street	264	0	0			X			X	1
Almond Av.	Start Of Pavement	44th Street	264	0	0				X		X	1
Brazilnut Av.	47th Street	42nd Street	1,320	5	5			X			X	1
Brazilnut Av.	47th Street	42nd Street	1,320	5	4				X		X	1
Brazilnut Av.	42nd Street	Myrtle St.	1,320	5	5			X			X	1
Brazilnut Av.	42nd Street	Myrtle St.	1,320	6	4				X		X	1
Locust Av.	Myrtle St.	44th Street	1,848	7	5			X			X	1
Locust Av.	Myrtle St.	44th Street	1,848	8	5				X		X	1
Chestnut Av.	Myrtle St.	44th Street	1,848	7	4			X			X	1
Chestnut Av.	Myrtle St.	44th Street	1,848	8	4				X		X	1
Walnut Av.	Myrtle St.	44th Street	1,848	6	3			X			X	1

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Walnut Av	Myrtle St	44th Street	1,848	5	5				X		X	1
University Pkwy	N. Washington Bv	RXR	25,344	26	7	Median					X	1-4-25
University Pkwy	N. Washington Bv	RXR	25,344	38	28		X				X	1-4-25
Honore Av.	University Pkwy	17th Street	2,904	11	9			X			X	25
Honore Av	University Pkwy	17th Street	2,904	12	10				X		X	25
Honore Av	17th Street	Richardson Rd	2,640	7	5			X			X	4
Honore Av	17th Street	Richardson Rd	2,640	3	5				X		X	4
Honore Av	Richardson Rd	Fruitville Rd	2,112	0	0			X			X	4
Honore Av	Richardson Rd	Fruitville Rd	2,112	0	0				X		X	4
Honore Av	Fruitville Rd	Palmer Bv	3,432	8	4			X			X	4
Honore Av	Fruitville Rd	Palmer Bv	3,432	9	4				X		X	4
Honore Av	Palmer Bv	Bahia Vista Street	1,584	13	9			X			X	4
Honore Av	Palmer Bv	Bahia Vista Street	1,584	0	0				X		X	4
Honore Av	Bahia Vista Street	Turtle Creek Ln	1,848	11	6			X			X	4
Honore Av	Bahia Vista Street	Turtle Creek Ln	1,848	0	0				X		X	4
Honore Av	Turtle Creek Ln	Colonial Oak Bv	2,112	0	0			X			X	4
Honore Av	Turtle Creek Ln	Colonial Oak Bv	2,112	14	7				X		X	4
Honore Av	Bee Ridge Rd	Ashton Rd	5,280	20	8			X			X	4
Honore Av	Bee Ridge Rd	Ashton Rd	5,280	0	0				X		X	4
Honore Av	Ashton Rd	Proctor Rd	2,640	0	0			X			X	4
Honore Av	Ashton Rd	Proctor Rd	2,640	0	0				X		X	4
Honore Av	Proctor Rd	Clark Rd	2,640	18	10			X			X	4
Honore Av	Proctor Rd	Clark Rd	2,640	11	7				X		X	4
Honore Av	Clark Rd	Jern Ln	2,640	0	0			X			X	4
Honore Av	Clark Rd	Jern Ln	2,640	5	1				X		X	4
Longmeadow Dr	17th Street	Marsh Field Rd	1,584	8	6			X			X	4
Longmeadow Dr	17th Street	Marsh Field Rd	1,584	6	3				X		X	4
Longmeadow Dr	Marsh Field Rd	Honore Av	3,960	11	8	X					X	4
Longmeadow DR	Marsh Field Rd	Honore Av	3,960	9	5		X				X	4
Hadfield Dr	Longmeadow Dr	Cul - De - Sac	3,696	0	0	X					X	4
Hadfield Dr	Longmeadow Dr	Cul - De - Sac	3,696	0	0		X				X	4
Myrtle Street	Lockwood Ridge Rd	Brazilnut Av	792	8	6	X					X	1
Myrtle Street	Lockwood Ridge Rd	Brazilnut Av	792	7	7		X				X	1
Myrtle Street	Turtle Av	To Booker Middle School	3,432	14	7	X					X	1
Myrtle Street	Turtle Av	To Booker Middle School	3,432	11	7		X				X	1
Myrtle Street	Leonard Reed Av	To End of Pavement	792	8	5	X					X	1

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Myrtle Street	Leonard Reed Av	To End Of Pavement	792	6	5			X			X	1
Leonard Reed Av	Myrtle Street	Dr. M. L. King Jr. Way	2,640	10	5			X			X	1
Leonard Reed Av	Myrtle Street	Dr. M. L. King Jr. Way	2,640	11	6				X		X	1
Newtown Bv	Dr. M. L. King Jr. Way	Dr. M. L. King Jr. Way	3,696	0	0			X			X	1
Newtown Bv	Dr. M. L. King Jr. Way	Dr. M. L. King Jr. Way	3,696	0	0				X		X	1
Banneker Way	Newtown Bv	Newtown Bv	1,056	0	0			X			X	1
Banneker Way	Newtown Bv	Newtown Bv	1,056	0	0				X		X	1
Bunche Cir	Newtown Bv	Newtown Bv	1,584	0	0			X			X	1
Bunche Cir.	Newtown Bv	Newtown Bv	1,584	0	0				X		X	1
Powell Cir	Newtown Bv	Cul - De - Sac	792	0	0	X					X	1
Powell Cir	Newtown Bv	Cul - De - Sac	792	0	0		X				X	1
Clay Cir	Newtown Bv	Cul - De - Sac	264	0	0			X			X	1
Clay Cir	Newtown Bv	Cul - De - Sac	264	0	0				X		X	1
Evers Cir	Newtown Bv	Cul - De - Sac	264	0	0	X					X	1
Evers Cir	Newtown Bv	Cul - De - Sac	264	0	0		X				X	1
Joe Louis Dr.	Newtown Bv	Newtown Bv	792	0	0			X			X	1
Joe Louis Dr	Newtown Bv	Newtown Bv	792	0	0				X		X	1
Mc Cloud Cir	Joe Louis Cir	Cul - De - Sac	528	0	0			X			X	1
Mc Cloud Cir	Joe Louis Cir	Cul - De - Sac	528	0	0				X		X	1
Carmichael Av	South Of Myrtle Street	North End Of Pavement	1,056	4	2			X			X	1
Carmichael Av.	South Of Myrtle Street	North End Of Pavement	1,056	0	0				X		X	1
Carmichael Av.	South Of 47th Street	47th Street	792	6	5			X			X	1
Carmichael Av	South Of 47th Street	47th Street	792	5	2				X		X	1
Carmichael Av	47th Street	Canal 3-7 R/R	528	8	4			X			X	1
Carmichael Av	47th Street	Canal 3-7 R/R	528	8	5				X		X	1
Carmichael Av	51st Street	Canal 3-7 R/R	528	8	2			X			X	1
Carmichael Av	51st Street	Canal 3-7 R/R	528	4	2				X		X	1
Ashberry Dr	47th Street	Seward Dr.	792	0	0			X			X	1
Ashberry Dr	47th Street	Seward Dr.	792	0	0				X		X	1
Ashberry Cir	Seward Dr	Cul - De - Sac	264	0	0	X					X	1
Ashberry Cir	Seward Dr	Cul - De - Sac	264	0	0		X				X	1
Seward Dr.	Seward Dr	Cul - De - Sac	528	0	0	X					X	1
Seward Dr	Seward Dr	Cul - De - Sac	528	0	0		X				X	1
Silver Maple Ct	Seward Dr	Cul - De - Sac	528	0	0	X					X	1
Silver Maple Ct	Seward Dr	Cul - De - Sac	528	0	0		X				X	1
Seward Dr.	Shade Av	Cul - De - Sac	2,376	0	0			X			X	1

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Seward Dr	Shade av.	Cut - De - Sac	2,376	0	0				X		X	1
Shade av	Spring Oaks Ln	Cut - De - Sac	264	0	0	X					X	1
Shade Av	Spring Oaks Ln	Cut - De - Sac	264	0	0		X				X	1
Shade Av	Spring Oaks Cir	Cut - De - Sac	528	0	0	X					X	1
Shade Av	Spring Oaks Cir	Cut - De - Sac	528	0	0		X				X	1
Shade Av	Spring Oaks Ct	Cut - De - Sac	264	0	0	X					X	1
Shade Av	Spring Oaks Ct	Cut - De - Sac	264	0	0		X				X	1
Shade Av	Spring Oaks Way	Cut - De - Sac	264	0	0	X					X	1
Shade Av	Spring Oaks Way	Cut - De - Sac	264	0	0		X				X	1
North Gate Bv	North Washington Bv	Cut - De - Sac	3,696	19	10	X					X	1
North Gate Bv	North Washington Bv	Cut - De - Sac	3,696	20	12		X				X	1
Independence Bv	North Gate Bv	Cut - De - Sac	1,848	17	9	X					X	1
Independence Bv	North Gate Bv	Cut - De - Sac	1,848	23	9		X				X	1
Independence Bv	Independence Bv	Cut - De - Sac	1,848	15	7			X			X	1
Independence Bv	Independence Bv	Cut - De - Sac	1,848	13	7				X		X	1
Butler Av	Myrtle Street	End Of Street North	1,320	6	3			X			X	1
Butler Av	Myrtle Street	End Of Street North	1,320	0	0				X		X	1
Osprey Av	57th Street	DeSoto Rd	528	12	5			X			X	1
Osprey Av	57th Street	DeSoto Rd	528	11	7				X		X	1
Osprey Av	Myrtle Av	North End Of Street	528	9	5			X			X	1
Osprey Av	Myrtle Av	North End Of Street	528	8	4				X		X	1
Central Av	Myrtle Street	46th Street	2,376	0	0			X			X	1
Central Av	Myrtle Street	46th Street	2,376	6	5				X		X	1
Fruitville Rd	1-75	Tatum Rd	2,112	0	0	X					X	4-20-21
Fruitville Rd	1-75	Tatum Rd	2,112	25	10		X				X	4-20-21
Fruitville Rd	Tatum Rd	Vic Edwards Rd	5,280	15	8	X					X	4-20-21
Fruitville Rd	Tatum Rd	Vic Edwards Rd	5,280	13	4		X				X	4-20-21
Fruitville Rd	Vic Edwards Rd	Shallow Run Rd	16,368	15	12	X					X	4-20-21
Fruitville Rd	Vic Edwards Rd	Shallow Run Rd	15,840	13	9		X				X	4-20-21
Fruitville Rd	Shallow Run Rd	Verna Rd	11,088	11	7	X					X	4-20-21
Fruitville Rd	Shallow Run Rd	Verna Rd	11,088	9	5		X				X	4-20-21
Dr. M. L. King Jr Way	Lockwood Ridge Rd	RXNR - City Limits	6,864	12	10	X					X	1
Dr. M. L. King Jr Way	Lockwood Ridge Rd	RXNR - City Limits	6,864	11	9		X				X	1
Mango Av	Dr. M. L. King Jr Way	19th Street	2,112	9	6			X			X	1
Mango Av	Dr. M. L. King Jr Way	19th Street	2,112	6	4				X		X	1
Mango Av	19th Street	17th Street	528	6	5			X			X	1

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Mango Av	19th Street	17th Street	528	13	5				X		X	1
Colson Av	Dr. M. L. King Jr. Way	22nd Street	1,300	6	2			X			X	1
Colson Av	Dr. M. L. King Jr. Way	22nd Street	1,300	6	2				X		X	1
Snug Harbor Pl	17th Street	19th Street	528	1	3			X			X	1
Snug Harbor Pl	17th Street	19th Street	528	4	3				X		X	1
25th Street	Mango Av	Colson Av	264	0	0	X					X	1
25th Street	Mango Av	Colson Av	264	0	0		X				X	1
25th Street	Booker Av	Tuttle Av	1,848	7	5	X					X	1
25th Street	Booker Av	Tuttle Av	1,848	8	5		X				X	1
24th Street	Mango Av	Colson Av	528	5	3	X					X	1
24th Street	Mango Av	Colson Av	528	4	4		X				X	1
24th Street	Booker Av	Tuttle Av	528	5	4	X					X	1
24th Street	Booker Av	Tuttle Av	528	5	3		X				X	1
23rd Street	Mango Av	Colson Av	528	6	2	X					X	1
23rd Street	Mango Av	Colson Av	528	4	2		X				X	1
23rd Street	Carol Dr.	West End Of Street	264	0	0	X					X	1
23rd Street	Carol Dr.	West End Of Street	264	0	0		X				X	1
23rd Street	Euclid Av.	90' West Of Chester Av	528	0	0	X					X	1
23rd Street	Euclid Av.	90' West Of Chester Av	528	0	0		X				X	1
23rd Street	90' West Of Chester Av	Tuttle Av	728	0	0	X					X	1
23rd Street	90' West Of Chester Av	Tuttle Av	728	0	0		X				X	1
22nd Street	Mango Av	East End Of Street	528	6	4	X					X	1
22nd Street	Mango Av	East End Of Street	528	5	4		X				X	1
22nd Street	Euclid Av.	West End Of Street	1,056	6	4	X					X	1
22nd Street	Euclid Av.	West End Of Street	1,056	5	4		X				X	1
22nd Street	Euclid Av.	Tuttle Av	1,320	5	3	X					X	1
22nd Street	Euclid Av.	Tuttle Av	1,320	4	3		X				X	1
22nd Street	Tuttle Av	Chrysler Av	1,056	0	0	X					X	1
22nd Street	Tuttle Av	Chrysler Av	1,056	0	0		X				X	1
22nd Street	End East Of Levee Pl	Chrysler Av	792	0	0	X					X	1
22nd Street	End East Of Levee Pl	Chrysler Av	792	0	0		X				X	1
21st Street	Start Of Street East	Euclid Av	1,584	7	4	X					X	1
21st Street	Start Of Street East	Euclid Av	1,584	6	5		X				X	1
21st Street	Euclid Av	Tuttle Av	1,056	5	3	X					X	1
21st Street	Euclid Av	Tuttle Av	1,056	6	5		X				X	1
20th Street	Euclid Av	Tuttle Av	1,056	5	2	X					X	1

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
26th Street	Euclid Av	Tuttle Av	1,056	3	2		X				X	1
19th Street	Mango Av	Euclid Av	2,376	7	5	X					X	1
19th Street	Mango Av	Euclid Av	2,376	8	5		X				X	1
19th Street	Euclid Av	Chester Av	528	6	3	X					X	1
19th Street	Euclid Av	Chester Av	528	5	3		X				X	1
18th Street	Euclid Av	Chester Av	528	4	3	X					X	1
18th Street	Euclid Av	Chester Av	528	4	3		X				X	1
18th Street	Chester Av	Tuttle Av	528	5	4	X					X	1
18th Street	Chester Av	Tuttle Av	528	4	2		X				X	1
Chilk Av	1st	Dr M L King Jr Way	528	8	5			X			X	1
Chilk Av	1st	Dr M L King Jr Way	528	8	5				X		X	1
Chilk Av	22nd Street	24th Street	528	4	3			X			X	1
Chilk Av	22nd Street	24th Street	528	3	3				X		X	1
Chilk Av	2111 Chilk Av	19th Street	528	7	4			X			X	1
Chilk Av	2111 Chilk Av	19th Street	528	8	4				X		X	1
Booker Av	Dr M L King Jr Way	24th Street	528	6	5			X			X	1
Booker Av	Dr M L King Jr Way	24th Street	528	5	4				X		X	1
Euclid Av	Dr M L King Jr Way	25th Street	264	8	4			X			X	1
Euclid Av	Dr M L King Jr Way	25th Street	264	7	3				X		X	1
Euclid Av	21st Street	17th Street	1,056	7	4			X			X	1
Euclid Av	21st Street	17th Street	1,056	8	5				X		X	1
Chester Street	Dr M L King Jr Way	24th Street	528	7	3			X			X	1
Chester Av	Dr M L King Jr Way	42th Street	528	5	4				X		X	1
Chester Av	24th Street	23rd Street	264	7	5			X			X	1
Chester Av	24th Street	23rd Street	264	6	3				X		X	1
Chester Av	3rd	22nd Street	160	8	6			X			X	1
Chester Av	3rd	22nd Street	160	0	0				X		X	1
Chester Av	22nd Street	19th Street	792	8	5			X			X	1
Chester Av	22nd Street	19th Street	792	7	3				X		X	1
Chester Av	19th Street	17th Street	528	8	5			X			X	1
Chester Av	19th Street	17th Street	528	7	5				X		X	1
Brink Av	Lynnhurst Street	100' South Of Hillview Street	1,056	9	8			X			X	4
Brink Av	Lynnhurst Street	100' South Of Hillview Street	1,056	9	7				X		X	4
Russell Av	17th Street	Clifford Av	2,376	9	4			X			X	4
Russell Av	17th Street	Clifford Av	2,376	10	7				X		X	4
Francis Av	Clifford Av	17th Street	2,376	10	6			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Francis Av	Clifford Av	17th Street	2,376	10	5				X		X	4
Clifford Av	Francis Av	Richardson Rd.	528	8	7			X			X	4
Clifford Av	Francis Av	Richardson Rd.	528	7	3				X		X	4
Willis Av	Richardson Rd	End Of Pavement	1,584	9	7			X			X	4
Willis Av	Richardson Rd	End Of Pavement	1,584	9	5				X		X	4
Stoebel Av	Richardson Rd	Vereda Verde Cir.	2,376	6	3			X			X	4
Stoebel Av	Richardson Rd	Vereda Verde Cir	2,376	8	5				X		X	4
17th Street	Deer Hollow Bx	Honore Av	2,640	7	3	X					X	4
17th Street	Deer Hollow Bx	Honore Av	2,640	9	5		X				X	4
Richardson Rd	Tatum Rd	Cohum Rd	2,920	5	3	X					X	4
Richardson Rd	Tatum Rd	Cohum Rd	2,920	8	5		X				X	4
Richardson Rd.	Cohum Rd.	1-75	1,320	8	5	X					X	4
Richardson Rd	Cohum Rd	1-75	1,320	6	0		X				X	4
Richardson Rd.	Brown Rd	Richardson Way	6,864	9	6	X					X	4
Richardson Rd	Brown Rd.	Richardson Way	6,864	7	3		X				X	4
Richardson Way	Fruitville Rd	Richardson Rd.	1,056	7	3			X			X	4
Richardson Way	Fruitville Rd	Richardson Rd.	1,056	8	7				X		X	4
Richardson Way	Richardson Rd	10th Street	1,056	6	5			X			X	4
Richardson Way	Richardson Rd	10th Street	1,056	5	4				X		X	4
Avant Av	Fruitville Rd	6th Street	1,056	11	10			X			X	4
Avant Av	Fruitville Rd	6th Street	1,056	11	7				X		X	4
Houle Av	10th Street	Fruitville Rd	2,376	6	3			X			X	4
Houle Av	10th Street	Fruitville Rd	2,376	5	3				X		X	4
Meldon Street	Richardson Way	Houle Av	528	5	4	X					X	4
Meldon Street	Richardson Way	Houle Av	528	4	3		X				X	4
Meldon Street	Houle Av	200 West Of Howell Pl	528	5	2	X					X	4
Meldon Street	Houle Av	200 West Of Howell Pl	528	4	4		X				X	4
10th Street	Richardson Way	Simmons Av	2,640	6	3	X					X	4
10th Street	Richardson Way	Simmons Av	2,640	7	4		X				X	4
8th Street	Simmons Av	Start West Of Street	528	8	4	X					X	4
8th Street	Simmons Av	Start West Of Street	528	6	4		X				X	4
Simmons Av	Fruitville Rd	10th Street	2,640	6	4			X			X	4
Simmons Av.	Fruitville Rd	10th Street	2,640	6	4				X		X	4
Cohum Rd	Fruitville Rd	Richardson Rd	1,848	6	0			X			X	4
Cohum Rd	Fruitville Rd	Richardson Rd	1,848	7	0				X		X	4
Cohum Rd	Fruitville Rd.	Interstate Bx	1,584	5	3			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Coburn Rd.	Trinityville Rd	Interstate Bv	1,584	0	0				X		X	4
Coburn Rd	Interstate Bv	Sawgrass Rd	1,056	0	0			X			X	4
Coburn Rd	Interstate Bv	Sawgrass Rd.	1,056	0	0				X		X	4
Coburn Rd.	Sawgrass Rd	Palmer Bv	2,112	0	0			X			X	4
Coburn Rd	Sawgrass Rd	Palmer Bv	2,112	0	0				X		X	4
Apex Rd	Palmer Bv	Cul - De - Sac	3,168	9	5			X			X	4
Apex Rd	Palmer Bv	Cul - De - Sac	3,168	5	3				X		X	4
Hines Av	Hacienda Street	South Of Bimini Street	1,320	10	8			X			X	4
Hines Av	Hacienda Street	South Of Bimini Street	1,320	5	4				X		X	4
Kaufman Av	Hacienda Street	Bahia Vista Street	792	5	3			X			X	4
Kaufman Av.	Hacienda Street	Bahia Vista Street	792	4	4				X		X	4
Kaufman Av.	Bahia Vista Street	Schrock Street	1,056	7	5			X			X	4
Kaufman Av	Bahia Vista Street	Schrock Street	1,056	6	4				X		X	4
Hacienda Street	Beneva Rd	Kaufman Av.	1,056	10	7	X					X	4
Hacienda Street	Beneva Rd	Kaufman Av.	1,056	0	0		X				X	4
Birky Street	Beneva Rd	Kaufman Av.	1,056	5	5	X					X	4
Birky Street	Beneva Rd	Kaufman Av.	1,056	7	3		X				X	4
Estrada Street	Beneva Rd	Kaufman Av	1,320	5	3	X					X	4
Estrada Street	Beneva Rd	Kaufman Av	1,320	6	3		X				X	4
Clarinda Street	Beneva Rd	Kaufman Av	1,056	4	2	X					X	4
Clarinda Street	Beneva Rd	Kaufman Av	1,056	5	2		X				X	4
Schrock Street	4-78	Kaufman Av	264	5	3	X					X	4
Schrock Street	4-78	Kaufman Av	264	0	0		X				X	4
Bimini Street	Hines Av	Kaufman Av	528	5	2	X					X	4
Bimini Street	Hines Av	Kaufman Av	528	4	2		X				X	4
Fry Street	Kaufman Av	Carter Av	1,056	5	3	X					X	4
Fry Street	Kaufman Av	Carter Av	1,056	0	0		X				X	4
Yoder Av	Fry Street	Bahia Vista Street	528	4	2			X			X	4
Yoder Av	Fry Street	Bahia Vista Street	528	4	2				X		X	4
Miller Av.	Bahia Vista Street	Start Of Street North	1,056	5	3			X			X	4
Miller Av	Bahia Vista Street	Start Of Street North	1,056	5	4				X		X	4
Kruppa Av	Start Of Street North	Bahia Vista Street	1,056	4	2			X			X	4
Kruppa Av	Start Of Street North	Bahia Vista Street	1,056	0	0				X		X	4
Greer Dr	Lockwood Ridge Rd	Gerhardt Street	792	3	2	X					X	4
Greer Dr.	Lockwood Ridge Rd	Gerhardt Street	792	4	2		X				X	4
Gerhardt Street	Lockwood Ridge Rd	Greer Dr	528	3	2	X					X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT II	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Gerhardt Street	Lockwood Ridge Rd	Greer Dr.	528	3	2		X				X	4
Gerhardt Street	Greer Dr.	Locklear Av	1,584	4	2			X			X	4
Gerhardt Street	Greer Dr.	Locklear Av	1,584	4	2				X		X	4
Searcy Av	Gerhardt Street	Bay Street	264	5	3			X			X	4
Searcy Av	Gerhardt Street	Bay Street	264	6	3				X		X	4
Searcy Av	Bay Street	North End Of Street	528	5	3			X			X	4
Searcy Av	Bay Street	North End Of Street	528	6	3				X		X	4
Bay Street	Searcy Av	Locklear Av	1,056	3	1	X					X	4
Bay Street	Searcy Av	Locklear Av	1,056	4	3		X				X	4
Locklear Av	Cul - De - Sac	Gerhardt Street	800	5	3			X			X	4
Locklear Av	Cul - De - Sac	Gerhardt Street	800	4	2				X		X	4
Trotter Av	Gerhardt Street	Alderman Street	1,056	4	3			X			X	4
Trotter Av	Gerhardt Street	Alderman Street	1,056	4	2				X		X	4
Dean Av	Bay Street	Alderman Street	528	4	2			X			X	4
Dean Av	Bay Street	Alderman Street	528	3	2				X		X	4
Padgett Av	Bay Street	Gerhardt Street	528	4	3			X			X	4
Padgett Av	Bay Street	Gerhardt Street	528	4	2				X		X	4
Marko Street	Padgett Av	Trotter Av	528	5	3	X					X	4
Marko Street	Padgett Av	Trotter Av	528	3	2		X				X	4
Lynnhurst Street	Tuttle Av	Brink Av	1,056	5	3	X					X	4
Lynnhurst Street	Tuttle Av	Brink Av	1,056	5	3		X				X	4
Hawthorne Street	Tuttle Av	Aloha Mobile Park	1,848	6	3	X					X	4
Hawthorne Street	Tuttle Av	Aloha Mobile Park	1,848	5	3		X				X	4
Patison Av	Arlington Street	Lynnhurst Street	528	5	3			X			X	4
Patison Av	Arlington Street	Lynnhurst Street	528	6	3				X		X	4
Arlington Street	Tuttle Av	East End Of Street	1,848	6	3	X					X	4
Arlington Street	Tuttle Av	East End Of Street	1,848	4	3		X				X	4
Hillview Street	Tuttle Av	East End Of Street	1,848	5	4	X					X	4
Hillview Street	Tuttle Av	East End Of Street	1,848	4	2		X				X	4
Bunyan Street	South Of Camus Street	South Of Camus Street	2,640	4	3	X					X	4
Bunyan Street	South Of Camus Street	South Of Camus Street	2,640	5	3		X				X	4
Bunyan Way	Bunyan Street	Cul - De - Sac	264	4	2			X			X	4
Bunyan Way	Bunyan Street	Cul - De - Sac	264	5	3				X		X	4
Bunyan Pl	Bunyan Street	Cul - De - Sac	264	4	2			X			X	4
Bunyan Pl	Bunyan Street	Cul - De - Sac	264	1	3				X		X	4
Camus Street	Bunyan Street	Honore Av	2,112	5	3	X					X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDTH	SLOPE	NORTH	SOUTH	EAST	WEST	CITY	CO	BASIN
				IN	DEPTH	SIDE	SIDE	SIDE	SIDE			
Camus Street	Burvan Street	Honore Av.	2,112	5	3		X				X	4
Camus Way	Camus Street	175' South Of Camus Street	175	4	3			X			X	4
Camus Way	Camus Street	175' South Of Camus Street	175	4	2				X		X	4
Indian Mound Street	Honore Av.	Indian Mound Street	3,168	4	2	X					X	4
Indian Mound Street	Honore Av.	Indian Mound Street	3,168	4	2		X				X	4
Foxcroft Court	Indian Mound Street	Cul - De - Sac	1,056	8	5			X			X	4
Foxcroft Court	Indian Mound Street	Cul - De - Sac	1,056	8	4				X		X	4
Antoinette Street	Honore Av.	Hancock Av.	2,640	5	3	X					X	4
Antoinette Street	Honore Av.	Hancock Av.	2,640	4	3		X				X	4
Ray Pl	Antoinette Street	West Sawgrass Rd	264	3	2			X			X	4
Ray Pl	Antoinette Street	West Sawgrass Rd.	264	2	2				X		X	4
West Sawgrass Rd.	Honore Av.	Hancock Av.	2,376	5	3	X					X	4
West Sawgrass Rd	Honore Av.	Hancock Av.	2,376	7	4		X				X	4
West Sawgrass Rd	Catarzi Way East	Cattlemen Rd.	264	0	0	X					X	4
West Sawgrass Rd	Catarzi Way East	Cattlemen Rd	264	12	5		X				X	4
East Sawgrass Rd	Hell Rd	Apex Rd	1,584	15	8	X					X	4
East Sawgrass Rd.	Hell Rd	Apex Rd	1,584	10	7		X				X	4
East Sawgrass Rd	Apex Rd.	Center Rd	3,168	15	8	X					X	4
East Sawgrass Rd	Apex Rd	Center Rd	3,168	6-1/2	6-1/2		X				X	4
Center Rd.	East Sawgrass Rd	Palmer Av.	2,112	10	6			X			X	4
Center Rd.	East Sawgrass Rd	Palmer Hs	2,112	12	5				X		X	4
Potter Street	Honore Av	Ponder Av.	1,320	4	2	X					X	4
Potter Street	Honore Av.	Ponder Av	1,320	4	2		X				X	4
Dorsay Street	Honore Av.	Ponder Av	1,056	4	2	X					X	4
Dorsay Street	Honore Av	Ponder Av	1,056	4	2		X				X	4
Kensington Street	Honore Av	Arcadia Av	1,056	4	3	X					X	4
Kensington Street	Honore Av	Arcadia Av	1,056	5	2		X				X	4
Kensington Street	Ponder Av	Hancock Av	792	4	3	X					X	4
Kensington Street	Ponder Av	Hancock Av	792	4	2		X				X	4
Arcadia Av.	Kensington Street	Palmer Hs	528	4	2			X			X	4
Arcadia Av	Kensington Street	Palmer Hs	528	4	2				X		X	4
Altoona Street	Arcadia Av	Palmer Hs	1,056	3	1	X					X	4
Altoona Street	Arcadia Av	Palmer Hs	1,056	4	2		X				X	4
Adrian Street	Palmer Hs	Potter Street	1,056	4	2			X			X	4
Adrian Street	Palmer Hs	Potter Street	1,056	5	5				X		X	4
Palmer Hs.	Honore Av.	Cattlemen Rd	4,224	6	0	X					X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT ft	SLOPE DEPTH	NORTH SIDE	SOUT SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Palmer Bv.	Honore Av	Cattlemen Rd	4,224	6	3		X				X	4
Palmer Bv	Cattlemen Rd	Porter Rd	1,056	0	0	X					X	4
Palmer Bv	Cattlemen Rd	Porter Rd	1,056	10	4		X				X	4
Palmer Bv	Porter Rd	Center Rd	4,752	14	5	X					X	4
Palmer Bv	Porter Rd	Center Rd	4,752	20	6		X				X	4
Palmer Bv	Center Rd	Tatum Rd	3,696	15	5	X					X	4
Palmer Bv	Center Rd	Tatum Rd	3,696	22	7		X				X	4
Palmer Bv	Tatum Rd	Iona Rd	10,032	12	6	X					X	4
Palmer Bv	Tatum Rd	Iona Rd	10,032	22	8		X				X	4
Bell Rd.	Palmer Bv	East Sawgrass Rd	1,584	0	0			X			X	4
Bell Rd	Palmer Bv	East Sawgrass Rd	1,584	14	7				X		X	4
Rim Rd.	Palmer Bv	Tatum Rd	3,960	4	3	X					X	4
Rim Rd	Palmer Bv	Tatum Rd	3,960	4	2		X				X	4
Tatum Rd	Rim Rd	Campbell Rd	3,696	13	6			X			X	4
Tatum Rd	Rim Rd	Campbell Rd	3,696	10	4				X		X	4
Tatum Rd	Fruitville Rd	Richardson Rd	1,584	11	9			X			X	4
Tatum Rd	Fruitville Rd	Richardson Rd	1,584	9	5				X		X	4
East Rd	Rim Rd	Fruitville Rd	4,752	8	5			X			X	4
East Rd	Rim Rd	Fruitville Rd	4,752	7	4				X		X	4
Shannon Rd	Fruitville Rd	Start Of Road	1,120	6	4			X			X	4
Shannon Rd	Fruitville Rd	Start Of Road	1,120	6	4				X		X	4
Jaki Av	Palmer Bv	North End Of Pavement	264	3	2			X			X	4
Jaki Av	Palmer Bv	North End Of Pavement	264	3	2				X		X	4
Colemen Av	Palmer Bv	North End Of Street	528	6	4			X			X	4
Colemen Av	Palmer Bv	North End Of Street	528	5	4				X		X	4
Bacon Av	Bahia Vista Street	North End Of Street	528	4	3			X			X	4
Bacon Av	Bahia Vista Street	North End Of Street	528	4	3				X		X	4
Bacon Av	Palmer Bv	North End Of Street	528	5	2			X			X	4
Bacon Av	Palmer Bv	North End Of Street	528	5	3				X		X	4
Gantt Av	Bahia Vista Street	North End Of Street	792	5	3			X			X	4
Gantt Av	Bahia Vista Street	North End Of Street	792	5	4				X		X	4
Gantt Av	Palmer Bv	North End Of Street	1,056	0	0			X			X	4
Gantt Av	Palmer Bv	North End Of Street	1,056	4.49	4.49				X		X	4
Hancock Av	Bahia Vista Street	Alta Vista Street	528	4	3			X			X	4
Hancock Av	Bahia Vista Street	Alta Vista Street	528	4	2				X		X	4
Hancock Av	Palmer Bv	North End Of Pavement	792	4	2			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Hancock Av.	Palmer Bv	North End Of Pavement	792	7	3				X		X	4
Hancock Av.	West Sawgrass Rd	Antoinette Street	264	5	2			X			X	4
Hancock Av.	West Sawgrass Rd.	Antoinette Street	264	5	2				X		X	4
Albritton Av	Bahia Vista Street	North End Of Street	792	4	3			X			X	4
Albritton Av	Bahia Vista Street	North End Of Street	792	0	0				X		X	4
Albritton Av	Palmer Bv	West Sawgrass Rd	1,848	6	3			X			X	4
Albritton Av	Palmer Bv.	West Sawgrass Rd	1,848	6	4				X		X	4
Hand Av.	Bahia Vista Street	North End Of Street	792	5	3			X			X	4
Hand Av	Bahia Vista Street	North End Of Street	792	0	0				X		X	4
Hand Av	Palmer Bv	West Sawgrass Rd	1,848	4	2			X			X	4
Hand Av	Palmer Bv.	West Sawgrass Rd	1,848	4	2				X		X	4
Ponder Av	West Sawgrass Rd	Palmer Bv	1,848	6	3			X			X	4
Ponder Av	West Sawgrass Rd	Palmer Bv	1,848	5	3				X		X	4
Ponder Av	Bahia Vista Street	Palmer Bv	1,056	7	2			X			X	4
Ponder Av	Bahia Vista Street	Palmer Bv	1,056	5	3				X		X	4
Raymond Rd.	Palmer Bv	Porter Rd	4,224	14	6			X			X	4
Raymond Rd	Palmer Bv.	Porter Rd	4,224	17	6				X		X	4
Porter Rd.	West Leewynn Dr	Sylvan Lea Dr	1,056	9	4	X					X	4
Porter Rd	West Leewynn Dr	Sylvan Lea Dr	1,056	0	0		X				X	4
Porter Rd	Sylvan Lea Dr	Raymond Rd	1,056	0	0	X					X	4
Porter Rd.	Sylvan Lea Dr	Raymond Rd	1,056	0	0		X				X	4
Porter Rd	Raymond Rd.	6-119	2,112	0	0	X					X	4
Porter Rd	Raymond Rd.	6-119	2,112	17	6		X				X	4
Porter Rd	6-119	Palmer Bv.	4,752	0	0			X			X	4
Porter Rd	6-119	Palmer Bv	4,752	17	6				X		X	4
De Breen Rd.	Fruitville Rd	Palmer Bv	2,302	12	3			X			X	4
De Breen Rd	Fruitville Rd	Palmer Bv	2,302	9	4				X		X	4
Shilo Rd.	De Breen Rd	Kennedy Ln.	1,584	8	4			X			X	4
Shilo Rd	De Breen Rd	Kennedy Ln	1,584	5	2				X		X	4
Kennedy Ln.	Shilo Rd	Tatum Rd	2,640	0	0	X					X	4
Kennedy Ln.	Shilo Rd	Tatum Rd	2,640	0	0		X				X	4
Webber Rd	Sunbeam Dr	Mira Loda Dr	264	5	2	X					X	4
Webber Rd	Sunbeam Dr	Mira Loda Dr	264	4	2		X				X	4
Webber Rd.	Palmer Bv.	East End Of Pavement	1,056	0	0	X					X	4
Webber Rd.	Palmer Bv	East End Of Pavement	1,056	10	5		X				X	4
Cattlemen Rd.	Fruitville Rd.	Bee Ridge Rd	14,784	10	5			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Cattlemen Rd	Frontville Rd	Bee Ridge Rd	14,784	18	7				X		X	4
Cattlemen Rd	Bee Ridge Rd	Proctor Rd	5,280	8	3			X			X	4
Cattlemen Rd	Bee Ridge Rd	Proctor Rd	5,280	0	0				X		X	4
Niobe Rd	Palmer Bv	North Leewynn Dr	2,376	19	8			X			X	4
Niobe Rd	Palmer Bv	North Leewynn Dr	2,376	13	6				X		X	4
Myakka Rd	Frontville Rd. Verna Rd	Clay Gully Rd. Manatee Co.	19,536	20	10			X			X	4
Myakka Rd	Frontville Rd. Verna Rd	Clay Gully Rd. Manatee Co.	19,536	9	5				X		X	4
Sarasota Golf Club Bv	Bee Ridge Rd	Shadow Oaks Bv	5,280	9	4			X			X	4
Sarasota Golf Club Bv	Bee Ridge Rd	Shadow Oaks Bv	5,280	7	3				X		X	4
Mc Kown Rd	Sarasota Golf Club Bv	End Of Pavement	1,584	6	6	X					X	4
Mc Kown Rd	Sarasota Golf Club Bv	End Of Pavement	1,584	7	6		X				X	4
Leewynn Pl	Shadow Oaks Rd	Leewynn Dr. South	792	14	8	X					X	4
Leewynn Pl	Shadow Oaks Rd	Leewynn Dr. South	792	0	0		X				X	4
West Leewynn Dr	South Leewynn Dr	North Leewynn Dr	3,168	6	3			X			X	4
West Leewynn Dr	South Leewynn Dr	North Leewynn Dr	3,168	8	3				X		X	4
North Leewynn Dr	West Leewynn Dr	South Leewynn Dr	8,136	5	4	X					X	4
North Leewynn Dr	West Leewynn Dr	South Leewynn Dr	8,136	7	3		X				X	4
South Leewynn Dr	North Leewynn Dr	West Leewynn Dr	6,864	7	2	X					X	4
South Leewynn Dr	North Leewynn Dr	West Leewynn Dr	6,864	7	5		X				X	4
Rolling Green Cir	South Leewynn Dr	South Leewynn Dr	3,432	7	3			X			X	4
Rolling Green Cir	South Leewynn Dr	South Leewynn Dr	3,432	9	3				X		X	4
Par Pl	South Leewynn Dr	Cul - De - Sac	1,584	13	3			X			X	4
Par Pl	South Leewynn Dr	Cul - De - Sac	1,584	6	3				X		X	4
East Leewynn Dr	South Leewynn Dr	North Leewynn Dr	2,640	10	2			X			X	4
East Leewynn Dr	South Leewynn Dr	North Leewynn Dr	2,640	12	2				X		X	4
North Leewynn Ct	North Leewynn Dr	Cul - De - Sac	264	9	3			X			X	4
North Leewynn Ct	North Leewynn Dr	Cul - De - Sac	264	5	2				X		X	4
North Leewynn Way	North Leewynn Dr	Cul - De - Sac	264	0	0			X			X	4
North Leewynn Way	North Leewynn Dr	Cul - De - Sac	264	0	0				X		X	4
Aberdeen Dr	Bee Ridge Rd	Sunbeam Dr	1,848	5	3			X			X	4
Aberdeen Dr	Bee Ridge Rd	Sunbeam Dr	1,848	4	2				X		X	4
Sunbeam Dr	Aberdeen Dr	South Of Rollins Pond Way	1,656	4	2			X			X	4
Sunbeam Dr	Aberdeen Dr	South Of Rollins Pond Way	1,656	4	2				X		X	4
Wake Av	Bee Ridge Rd	Cul - De - Sac	792	6	3			X			X	4
Wake Av	Bee Ridge Rd	Cul - De - Sac	792	6	3				X		X	4
Kosten Pl	Hagen Ln	Cul - De - Sac	528	0	0			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Kosten Pl.	Hagen Ln.	Cul - De - Sac	528	0	0				X		N	4
Hagen Ln.	Wake Av.	Kosten Pl.	528	0	0	X					N	4
Hagen Ln.	Wake Av.	Kosten Pl.	528	4	2		X				N	4
Rio Vista Street	Honore Av.	Arcadia Av.	1,056	12	5	X					N	4
Rio Vista Street	Honore Av.	Arcadia Av.	1,056	12	4		X				N	4
Linwood Street	Greendale Dr.	Fairfield Dr.	792	5	2	X					N	4
Linwood Street	Greendale Dr.	Fairfield Dr.	792	9	6		X				N	4
Linwood Street	Fairfield Dr.	McIntosh Rd.	1,584	5	2	X					N	4
Linwood Street	Fairfield Dr.	McIntosh Rd.	1,584	9	5		X				N	4
Linwood Street	McIntosh Rd.	Vinson Av.	3,904	7	6	X					N	4
Linwood Street	McIntosh Rd.	Vinson Av.	3,904	7	3		X				N	4
Linwood Street	Vinson Av.	Gold Trees Way	1,056	0	0	X					N	4
Linwood Street	Vinson Av.	Gold Trees Way	1,056	0	0		X				N	4
Vinson Av.	Linwood Street	Webber Street	2,176	8	5			X			N	4
Vinson Av.	Linwood Street	Webber Street	2,176	6	5				X		N	4
Vinson Av.	Webber Street	Beacon Dr.	1,584	8	3			X			N	4
Vinson Av.	Webber Street	Beacon Dr.	1,584	6	3				X		N	4
Stratford Dr.	Webber Street	Linwood Street	3,904	6	4			X			N	4
Stratford Dr.	Webber Street	Linwood Street	3,904	6	3				X		N	4
Vinson Way	Vinson Av.	Stratford Dr.	528	6	2	X					N	4
Vinson Way	Vinson Av.	Stratford Dr.	528	6	3		X				N	4
Kerry Ln.	Stratford Dr.	Vinson Av.	264	5	3	X					N	4
Kerry Ln.	Stratford Dr.	Vinson Av.	264	5	2		X				N	4
Amanda Dr.	Linwood Street	Longford Dr.	1,056	8	2			X			N	4
Amanda Dr.	Linwood Street	Longford Dr.	1,056	8	2				X		N	4
Amanda Dr.	Longford Dr.	Webber Street	1,320	8	5			X			N	4
Amanda Dr.	Longford Dr.	Webber Street	1,320	8	4				X		N	4
Teal Av.	Webber Street	Ardale Street	1,320	6	5			X			N	4
Teal Av.	Webber Street	Ardale Street	1,320	6	4				X		N	4
Teal Av.	Ardale Street	Linwood Av.	1,056	6	4			X			N	4
Teal Av.	Ardale Street	Linwood Av.	1,056	6	4				X		N	4
Teal Av.	Webber Street	Brooksdale Dr.	2,112	6	4			X			N	4
Teal Av.	Webber Street	Brooksdale Dr.	2,112	6	3				X		N	4
Teal Av.	Brooksdale Dr.	Beacon Dr.	528	6	2			X			N	4
Teal Av.	Brooksdale Dr.	Beacon Dr.	528	5	2				X		N	4
Galway Dr.	Ardale Street	Teal Av.	1,056	1	2	X					N	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Galway Dr.	Ardale Street	Teal Av	1,056	5	3		X				X	4
Linwood Way	Galway Dr.	Linwood Street	528	5	4			X			X	4
Linwood Way	Galway Dr.	Linwood Street	528	5	2				X		X	4
Longford Dr.	Teal Av	Ardale Street	792	5	2	X					X	4
Longford Dr.	Teal Av	Ardale Street	792	4	3		X				X	4
Longford Dr.	Ardale Street	Amanda Dr.	264	5	2	X					X	4
Longford Dr.	Ardale Street	Amanda Dr.	264	4	3		X				X	4
Longford Dr.	Amanda Street	Stratford Dr	264	3	2	X					X	4
Longford Dr.	Amanda Dr	Stratford Dr	264	3	3		X				X	4
Ferns Ln	Longford Dr	Teal Av.	528	8	3			X			X	4
Ferns Ln.	Longford Dr	Teal Av	528	4	3				X		X	4
Denise Ln.	Teal Av	Amanda Dr	528	5	3	X					X	4
Denise Ln	Teal Av	Amanda Dr	528	6	3		X				X	4
Amanda Way	Amanda Dr	Teal Av	264	4	3	X					X	4
Amanda Way	Amanda Dr	Teal Av.	264	0	0		X				X	4
Beacon Dr.	McIntosh Rd.	Vinson Av.	3,168	7	4	X					X	4
Beacon Dr	McIntosh Rd	Vinson Av	3,168	7	4		X				X	4
Brooksdale Dr	Vinson Av	McIntosh Rd	3,472	5	3	X					X	4
Brooksdale Dr	Vinson Av	McIntosh Rd	3,472	5	2		X				X	4
Spahn Street	Vinson Av	Avery Av	1,056	6	2	X					X	4
Spahn Street	Vinson Av	Avery Av.	1,056	5	2		X				X	4
Spahn Street	Teal Av	Savoy Dr	1,056	8	4	X					X	4
Spahn Street	Teal Av	Savoy Dr	1,056	8	3		X				X	4
Savoy Dr	Brooksdale Dr	Webber Street	792	6	2			X			X	4
Savoy Dr.	Brooksdale Dr	Webber Street	792	7	2				X		X	4
Arch Dr	Brooksdale Dr	Spahn Street	1,056	3	2			X			X	4
Arch Dr	Brooksdale Dr	Spahn Street	1,056	5	3				X		X	4
Pafko Dr	Spahn Street	Salem Av	1,320	8	3	X					X	4
Pafko Dr	Spahn Street	Salem Av	1,320	7	3		X				X	4
Salem Av	Brooksdale Dr	Spahn Street	1,584	4	3			X			X	4
Salem Av	Brooksdale Dr	Spahn Street	1,584	4	3				X		X	4
Teal Way	Salem Av.	Teal Av	264	4	3	X					X	4
Teal Way	Salem Av.	Teal Av	264	0	0		X				X	4
Avery Av.	Webber Street	Brooksdale Dr	528	5	3			X			X	4
Avery Av	Webber Street	Brooksdale Dr	528	5	4				X		X	4
Vesper Av.	Beacon Dr	Brooksdale Dr	792	10	2			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Vesper Av	Beecon Dr	Brookside Dr	792	10	3				X		X	4
Baldwin Av	Beecon Dr	Brookside Dr	792	5	3			X			X	4
Baldwin Av	Beecon Dr	Brookside Dr	792	5	2				X		X	4
Wilder Av	Beecon Dr	Brookside Dr	792	5	2			X			X	4
Wilder Av	Beecon Dr	Brookside Dr	792	7	5				X		X	4
Betty Dr	McIntosh Rd	McIntosh Rd	1,320	5	3			X			X	4
Betty Dr	McIntosh Rd	McIntosh Rd	1,320	5	3				X		X	4
Webber Street	North Tamiami Trail	City Limits	1,056	0	0	X					X	4
Webber Street	North Tamiami Trail	City Limits	1,056	0	0		X				X	4
Webber Street	City Limits	Jefferson Av	1848	0	0	X					X	4
Webber Street	City Limits	Jefferson Av	1848	0	0		X				X	4
Webber Street	Jefferson Av	Brink Av	2640	0	0	X					X	4
Webber Street	Jefferson Av	Brink Av	2,640	0	0		X				X	4
Webber Street	Brink Av	Lockwood Ridge Rd	1,584	0	0	X					X	4
Webber Street	Brink Av	Lockwood Ridge Rd	1,584	0	0		X				X	4
Webber Street	Lockwood Ridge Rd	Beneva Rd	2,640	0	0	X					X	4
Webber Street	Lockwood Ridge Rd	Beneva Rd	2,640	0	0		X				X	4
Webber Street	Beneva Rd	McIntosh Rd	4,752	0	0	X					X	4
Webber Street	Beneva Rd	McIntosh Rd	4,752	0	0		X				X	4
Webber Street	McIntosh Rd	Java Plum Av	3,168	4	2	X					X	4
Webber Street	McIntosh Rd	Java Plum Av	3,168	5	2		X				X	4
Webber Street	Java Plum Av	Linwood Dr	1,056	0	0	X					X	4
Webber Street	Java Plum Av	Linwood Dr	1,056	0	0		X				X	4
Webber Street	Linwood Dr	Silk Oak Dr	264	0	0	X					X	4
Webber Street	Linwood Dr	Silk Oak Dr	264	0	0		X				X	4
Webber Street	Silk Oak Dr	Lalani Bv	264	0	0	X					X	4
Webber Street	Silk Oak Dr	Lalani Bv	264	0	0		X				X	4
McIntosh Rd	Start West Of Dunbar	Piper Place	2,640	0	3	X					X	4
McIntosh Rd	Start West Of Dunbar	Piper Place	2,640	10	3		X				X	4
Parnell Dr	McIntosh Rd	Busti Dr	528	6	4			X			X	4
Parnell Dr	McIntosh Rd	Busti Dr	528	12	4				X		X	4
Parnell Dr	Busti Dr	Yawkey Av	2,112	6	5			X			X	4
Parnell Dr	Busti Dr	Yawkey Av	2,112	12	5				X		X	4
Yawkey Av	Busti Way	Parnell Dr	528	5	3			X			X	4
Yawkey Av	Busti Way	Parnell Dr	528	4	2				X		X	4
Cronin Dr	Yawkey Av	Busti Dr	1,056	6	3	X					X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Cronin Dr	Yawkey Av	Busti Dr	1,056	4	3		X				X	4
Fenway Dr	Busti Dr	Parnell Dr	792	6	3	X					X	4
Fenway Dr	Busti Dr	Parnell Dr	792	6	3		X				X	4
Barton Dr	McIntosh Rd	Bond Place	1,056	6	4	X					X	4
Barton Dr	McIntosh Rd	Bond Place	1,056	6	3		X				X	4
Bond Place	Bee Ridge Rd	Busti Dr - Busti Way	792	7	3			X			X	4
Bond Place	Bee Ridge Rd	Busti Dr - Busti Way	792	7	4				X		X	4
Busti Dr	Parnell Dr	Fenway Dr	528	3	3	X					X	4
Busti Dr	Parnell Dr	Fenway Dr	528	5	3		X				X	4
Busti Dr	Fenway Dr	Bond Place	528	7	3	X					X	4
Busti Dr	Fenway Dr	Bond Place	528	5	3		X				X	4
Busti Way	Bond Place	Yawkey Av	1,056	0	0			X			X	4
Busti Way	Bond Place	Yawkey Av	1,056	0	0				X		X	4
Piper Place	McIntosh Rd	Busti Way	528	0	0			X			X	4
Piper Place	McIntosh Rd	Busti Way	528	4	2				X		X	4
Upton Av	Linwood Street	Alton Way	792	4	3			X			X	4
Upton Av	Linwood Street	Alton Way	792	4	3				X		X	4
Alton Way	McIntosh Rd	Cambridge Dr	264	4	3	X					X	4
Alton Way	McIntosh Rd	Cambridge Dr	264	5	3		X				X	4
Ulrica Dr	Linwood Street	Cambridge Dr	528	4	3			X			X	4
Ulrica Dr	Linwood Street	Cambridge Dr	528	4	3				X		X	4
Prescott Street	Fairfield Av	Ulrica Dr	1,056	4	4	X					X	4
Prescott Street	Fairfield Av	Ulrica Dr	1,056	4	2		X				X	4
Cambridge Dr	Tem Street	Webber Street	1,056	1	3			X			X	4
Cambridge Dr	Tem Street	Webber Street	1,056	2	4				X		X	4
Cambridge Dr	Tem Street	Winthrop Street	1,056	4	3			X			X	4
Cambridge Dr	Tem Street	Winthrop Street	1,056	4	2				X		X	4
Cambridge Dr	Webber Street	Mystic Dr	2,376	5	3			X			X	4
Cambridge Dr	Webber Street	Mystic Dr	2,376	4	2				X		X	4
Cambridge Dr	Mystic Dr	Fairfield Av	528	3	3			X			X	4
Cambridge Dr	Mystic Dr	Fairfield Av	528	3	2				X		X	4
Fairfield Av	Linwood Street	Arden Dr	1,056	2	2			X			X	4
Fairfield Av	Linwood Street	Arden Dr	1,056	3	2				X		X	4
Arden Dr	Fairfield Av	Mystic Dr	350	0	0	X					X	4
Arden Dr	Fairfield Av	Mystic Dr	350	4	2		X				X	4
Mystic Dr	Arden Dr	Cambridge Dr	792	4	2			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Mystic Dr.	Arden Dr.	Cambridge Dr.	792	4	2				X		X	4
Barry Way	Fairfield Av	Mystic Dr.	528	4	2	X					X	4
Barry Way	Fairfield Av	Mystic Dr.	528	5	2		X				X	4
Arden Dr	Linwood Street	South Of Break Ln.	792	3	3			X			X	4
Arden Dr	Linwood Street	South Of Break Ln	792	2	2				X		X	4
Break Ln	Arden Dr.	Greendale Dr	528	0	0	X					X	4
Break Ln	Arden Dr	Greendale Dr.	528	0	0		X				X	4
Greendale Dr	Break Ln.	Linwood Street	792	0	0			X			X	4
Greendale Dr	Break Ln.	Linwood Street	792	3	2				X		X	4
Corona Ln	Greendale Dr	Arden Dr	528	3	3	X					X	4
Corona Ln	Greendale Dr	Arden Dr	528	3	3		X				X	4
Calvin Ln	Arden Dr	Greendale Dr.	528	0	0	X					X	4
Calvin Ln	Arden Dr.	Greendale Dr	528	2	3		X				X	4
Wells Av	Wehber Street	South Of Ardale Street	1,056	0	0			X			X	4
Wells Av.	Wehber Street	South Of Ardale Street	1,056	0	0				X		X	4
Wells Av	South Of Ardale Street	North Of Ardale Street	100	4	3			X			X	4
Wells Av.	South Of Ardale Street	North Of Ardale Street	100	4	2				X		X	4
Wells Av	Start Of Street	Linwood Street	792	3	3			X			X	4
Wells Av	Start Of Street	Linwood Street	792	4	3				X		X	4
Ardale Street	McIntosh Rd	Wells Av	264	4	3	X					X	4
Ardale Street	McIntosh Rd	Wells Av	264	5	3		X				X	4
Chardon Way	Cambridge Dr	McIntosh Rd.	264	4	2	X					X	4
Chardon Way	Cambridge Dr	McIntosh Rd.	264	4	3		X				X	4
Alma Way	Cambridge Dr	McIntosh Rd.	264	6	3	X					X	4
Alma Way	Cambridge Dr	McIntosh Rd	264	6	3		X				X	4
Neva Way	Cambridge Dr	McIntosh Rd.	264	4	2	X					X	4
Neva Way	Cambridge Dr	McIntosh Rd	264	4	3		X				X	4
Ruth Way	Cambridge Dr	McIntosh Rd	264	5	2	X					X	4
Ruth Way	Cambridge Dr	McIntosh Rd	264	5	2		X				X	4
Sharon Way	Cambridge Dr	McIntosh Rd	264	5	2	X					X	4
Sharon Way	Cambridge Dr	McIntosh Rd	264	5	2		X				X	4
Wehber Pl	North Of Wehber Street	Cul - De - Sac	792	4	3			X			X	4
Wehber Pl	North Of Wehber Street	Cul - De - Sac	792	4	2				X		X	4
Wehber Pl	South Of Wehber Street	Cul - De - Sac	792	0	0			X			X	4
Wehber Pl	South Of Wehber Street	Cul - De - Sac	792	0	0				X		X	4
Sweetland Av	Wehber Street	Hibiscus Street - Ingram Av	1,320	6	2			X			X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Sweetland Av.	Webber Street	Hibiscus Street Ingram Av	1,320	5	2				X		X	4
Ingram Av	Sweetland Av	Bahia Vista Street	3,960	5	4			X			X	4
Ingram Av	Sweetland Av	Bahia Vista Street	3,960	5	4				X		X	4
Hibiscus Street	Huntington Av	Sweetland Av Ingram Av	528	5	0	X					X	4
Hibiscus Street	Huntington Av	Sweetland Av Ingram Av	528	3	3		X				X	4
Robinson Av.	Webber Street	North End Of Street	2,370	5	3			X			X	4
Robinson Av.	Webber Street	North End of Street	2,370	5	2				X		X	4
Wisteria Av.	Huntington Av	Robinson Av.	264	0	0	X					X	4
Wisteria Av	Huntington Av	Robinson Av	264	8	4		X				X	4
Huntington Av.	Webber Street	Hibiscus Street	1,320	7	4			X			X	4
Huntington Av	Webber Street	Hibiscus Street	1,320	4	3				X		X	4
East Forest Lake Dr	Webber Street	Forest Lake Dr	4,224	4	2			X			X	4
East Forest Lake Dr	Webber Street	Forest Lake Dr	4,224	4	3				X		X	4
Pony Ln	East Forest Lake Dr	East Forest Lake Dr	1,584	4	3			X			X	4
Pony Ln	East Forest Lake Dr	East Forest Lake Dr	1,584	5	3				X		X	4
West Forest Lake Dr	Forest Lake Dr	East Forest Lake Dr	3,004	5	2			X			X	4
West Forest Lake Dr	Forest Lake Dr	East Forest Lake Dr	3,004	6	2				X		X	4
West Forest Lake Cir	West Forest Lake Dr	West Forest Lake Dr	792	4	3			X			X	4
West Forest Lake Cir	West Forest Lake Dr	West Forest Lake Dr	792	7	7				X		X	4
West Mark Dr	Webber Street	South Mark Dr	528	4	2			X			X	4
West Mark Dr.	Webber Street	South Mark Dr	528	4	2				X		X	4
South Mark Dr	West Mark Dr	East Mark Dr.	264	4	2	X					X	4
South Mark Dr.	West Mark Dr	East Mark Dr.	264	4	2		X				X	4
East Mark Dr.	South Mark Dr	Webber Street	528	4	2			X			X	4
East Mark Dr	South Mark Dr	Webber Street	528	4	2				X		X	4
Tern Street	McIntosh Rd	Corey Rd	1,056	4	2	X					X	4
Tern Street	McIntosh Rd	Corey Rd	1,056	7	5		X				X	4
Tern Street	Corey Rd	Linden Dr	792	3	2	X					X	4
Tern Street	Corey Rd	Linden Dr	792	0	0		X				X	4
Dunbar Dr	McIntosh Ln	Tern Street	2,112	4	4			X			X	4
Dunbar Dr	McIntosh Rd	Tern Street	2,112	5	2				X		X	4
Ann Way	Cambridge Dr	McIntosh Rd	264	3	2	X					X	4
Ann Way	Cambridge Dr	McIntosh Rd	264	3	2		X				X	4
Patty Way	Cambridge Dr	McIntosh Rd	264	4	3	X					X	4
Patty Way	Cambridge Dr	McIntosh Rd	264	5	2		X				X	4
Jean Way	Cambridge Dr	McIntosh Rd	264	4	3	X					X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE NORTH DEPTH SIDE	SOUTH H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Jean Way	Cambridge Dr	McIntosh Rd	264	4	2		X			X	4
Belmont Bv	Bee Ridge Rd	Winthrop Street	1,056	6	4			X		X	4
Belmont Bv	Bee Ridge Rd	Winthrop Street	1,056	4	2				X	X	4
Belmont Bv	Tern Street	Winthrop Street	1,056	6	4			X		X	4
Belmont Bv	Tern Street	Winthrop Street	1,056	4	3				X	X	4
Corey Rd	Winthrop Street	Tern Street	1,056	4	2			X		X	4
Corey Rd	Winthrop Street	Tern Street	1,056	4	3				X	X	4
Hart Way	Tern Street	Fleet Ln	264	0	0			X		X	4
Hart Way	Tern Street	Fleet Ln	264	0	0				X	X	4
Cary Way	Fleet Ln	Tern Street	264	3	2			X		X	4
Cary Way	Fleet Ln	Tern Street	264	0	0				X	X	4
Lunden Dr	Tern Street	Winthrop Street	1,056	4	2			X		X	4
Lunden Dr	Tern Street	Winthrop Street	1,056	4	2				X	X	4
Dyer Ln	Lunden Dr	Corey Rd	528	4	3	X				X	4
Dyer Ln	Lunden Dr	Corey Rd	528	4	2		X			X	4
Fleet Ln	Lunden Dr	Corey Rd	528	4	2	X				X	4
Fleet Ln	Lunden Dr	Corey Rd	528	3	3		X			X	4
Larkin Street	Belmont Bv	Dunbar Dr	792	4	2	X				X	4
Larkin Street	Belmont Bv	Dunbar Dr	792	6	2		X			X	4
Baird Street	Alden Way	Dunbar Dr	528	5	3	X				X	4
Baird Street	Alden Way	Dunbar Dr	528	5	3		X			X	4
Alden Way	Belmont Bv	Larkin Street	792	5	2			X		X	4
Alden Way	Belmont Bv	Larkin Street	792	4	2				X	X	4
Ashbury Place	Bee Ridge Rd	Cul - De - Sac	792	0	0			X		X	4
Ashbury Place	Bee Ridge Rd	Cul - De - Sac	792	3	3				X	X	4
Ashbury Place	Bee Ridge Rd	Radnor Place	264	5	2			X		X	4
Ashbury Place	Bee Ridge Rd	Radnor Place	264	4	2				X	X	4
Ashbury Place	Radnor Place	Ashbury - Radnor Way	264	5	2			X		X	4
Ashbury Place	Radnor Place	Ashbury - Radnor Way	264	4	2				X	X	4
Ardmore Ln	Radnor Place	Ashbury Place	264	3	2	X				X	4
Ardmore Ln	Radnor Place	Ashbury Place	264	0	0		X			X	4
Radnor Place	Bee Ridge Rd	Cul - De - Sac	528	4	2			X		X	4
Radnor Place	Bee Ridge Rd	Cul - De - Sac	528	0	0				X	X	4
Radnor Place	Ashbury Place	Ashbury - Radnor Way	1,848	3	2			X		X	4
Radnor Place	Ashbury Place	Ashbury - Radnor Way	1,848	4	3				X	X	4
Orleans Ln	Ashbury Place	Radnor Place	264	0	0	X				X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDTH	SLOPE	NORTH	SOUTH	EAST	WEST	CITY	CO	BASIN
Orleans Ln.	Ashbury Place	Radnor Place	264	3	2		X				X	4
Wilkinson Rd	Lords Dr	Swift Rd	1,056	0	0	X					X	4
Wilkinson Rd	Lords Dr	Swift Rd	1,056	4	2		X				X	4
Wilkinson Rd	Swift Rd	Sawyer Rd	7,920	5	3	X					X	4
Wilkinson Rd	Swift Rd	Sawyer Rd	7,920	4	3		X				X	4
Wilkinson Rd	Sawyer Rd	McIntosh Rd	2,640	8	5	X					X	4
Wilkinson Rd	Sawyer Rd	McIntosh Rd	2,640	5	2		X				X	4
Wilkinson Rd	McIntosh Rd	Narragansett Trail	1,848	6	3	X					X	4
Wilkinson Rd	McIntosh Rd	Narragansett Trail	1,848	5	3		X				X	4
Wilkinson Rd	Narragansett Trail	Bass Rd	600	6	4	X					X	4
Wilkinson Rd	Narragansett Trail	Bass Rd	600	6	3		X				X	4
Hale Street	McIntosh Rd	End Of Street	1,056	6	3	X					X	4
Hale Street	McIntosh Rd	End Of Street	1,056	5	2		X				X	4
Annie Street	Sawyer Rd	End Of Street	528	4	2	X					X	4
Annie Street	Sawyer Rd	End Of Street	528	5	3		X				X	4
Stardust Place	Bee Ridge Rd	End Of Street	528	4	3			X			X	4
Stardust Place	Bee Ridge Rd	End Of Street	528	4	2				X		X	4
Red Rock Ln	Start Of Street	Bay Rd	1,056	6	3			X			X	26
Red Rock Ln	Start Of Street	Bay Rd	1,056	5	3				X		X	26
Crocker Street	East End Of Street	Red Rock Ln	528	0	0	X					X	26
Crocker Street	East End Of Street	Red Rock Ln	528	5	3		X				X	26
Maravie Place	Start Of Street	Bay Rd	264	3	2			X			X	26
Maravie Place	Start Of Street	Bay Rd	264	0	0				X		X	26
Nebraska Street	Sunshine Av	Brown Av	792	3	2	X					X	26
Nebraska Street	Sunshine Av	Brown Av	792	0	0		X				X	26
Hansen Street	Camino Real	North Tamiami Trail	2,112	7	3			X			X	26
Hansen Street	Camino Real	North Tamiami Trail	2,112	9	4				X		X	26
Camino Real	Bay Rd	Pine Bay Rd	2,376	5	3			X			X	26
Camino Real	Bay Rd	Pine Bay Rd	2,376	3	2				X		X	26
Camino Real	Pine Bay Rd	Field Rd	1,320	3	2			X			X	26
Camino Real	Pine Bay Rd	Field Rd	1,320	0	0				X		X	26
Camino Real	Field Rd	Kimlira Ln	1,320	2	2			X			X	26
Camino Real	Field Rd	Kimlira Ln	1,320	0	0				X		X	26
Kenilworth Street	Start Of Street	Camino Real	264	3	2	X					X	26
Kenilworth Street	Start Of Street	Camino Real	264	3	2		X				X	26
Kenilworth Street	Camino Real	North Tamiami Trail	2,112	6	3	X					X	26

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Kendallworth Street	Camino Real	North Tamiami Trail	2,112	5	2			X			X	26
North Lakeshore Dr	Camino Real	North Tamiami Trail	2,112	6	1				X		X	26
North Lakeshore Dr	Camino Real	North Tamiami Trail	2,112	6	2					X	X	26
South Lakeshore Dr	Camino Real	North Tamiami Trail	2,112	5	1				X		X	26
South Lakeshore Dr	Camino Real	North Tamiami Trail	2,112	4	3				X		X	26
South Lakeshore Dr	Start Of Street	Camino Real	792	3	2	X					X	26
South Lakeshore Dr	Start Of Street	Camino Real	792	3	1		X				X	26
Westwood Ln	North Lakeshore Dr	South Lakeshore Dr	300	4	2			X			X	26
Westwood Ln	North Lakeshore Dr	South Lakeshore Dr	300	3	3				X		X	26
Field Rd	Camino Real	North Tamiami Trail	2,112	5	2	X					X	26
Field Rd	Camino Real	North Tamiami Trail	2,112	5	2		X				X	26
School Av	Bee Ridge Rd	Olentangy Street	792	4	2				X		X	4
School Av	Bee Ridge Rd	Olentangy Street	792	4	9				X		X	4
School Av	Mill Ter	Palm Ter	528	9	0				X		X	4
School Av	Mill Ter	Palm Ter	528	9	6				X	X	X	4
School Av	Proctor Rd	Florida Street	1,320	3	2				X		X	4
School Av	Proctor Rd	Florida Street	1,320	7	5				X		X	4
Warrington Street	North Tamiami Trail	School Av	528	5	3	X					X	4
Warrington Street	North Tamiami Trail	School Av	528	4	3		X				X	4
Warrington Street	School Av	Riverswood Av	528	4	2	X					X	4
Warrington Street	School Av	Riverswood Av	528	3	2		X				X	4
Sterling Ln	Swift Rd	Worcester Rd	1,100	6	4	X					X	4
Sterling Ln	Swift Rd	Worcester Rd	1,100	7	4		X				X	4
Stoneland Ln	Swift Rd	Worcester Rd	1,100	4	1	X					X	4
Stoneland Ln	Swift Rd	Worcester Rd	1,100	4	2		X				X	4
Forest Ln	Swift Rd	Worcester Rd	1,100	5	3	X					X	4
Forest Ln	Swift Rd	Worcester Rd	1,100	4	3		X				X	4
Forest Ln	Swift Rd	Brookside Dr	1,056	5	1	X					X	4
Forest Ln	Swift Rd	Brookside Dr	1,056	0	0		X				X	4
Edgewood Ln	Swift Rd	Worcester Rd	1,320	6	3	X					X	4
Edgewood Ln	Swift Rd	Worcester Rd	1,320	6	4		X				X	4
Maiden Ln	Swift Rd	Worcester Rd	1,584	4	1	X					X	4
Maiden Ln	Swift Rd	Worcester Rd	1,584	4	4		X				X	4
Maiden Ln	Murdoch Av	Rockefeller Av	1,848	3	2	X					X	4
Maiden Ln	Murdoch Av	Rockefeller Av	1,848	0	0		X				X	4
Marlette Street	Swift Rd	End Of Street	528	5	4	X					X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Marlene Street	Swift Rd	End Of Street	528	6	3			X			X	4
Midland Rd	Wilkinson Rd	Maiden Ln	1,056	3	3				X		X	4
Midland Rd	Wilkinson Rd	Maiden Ln	1,056	3	3				X		X	4
Midland Rd	Edgewood Ln	Bee Ridge Rd	1,056	3	3				X		X	4
Midland Rd	Edgewood Ln	Bee Ridge Rd	1,056	3	3				X		X	4
Worcester Rd	Bee Ridge Rd	Wilkinson Rd	2,640	5	2				X		X	4
Worcester Rd	Bee Ridge Rd	Wilkinson Rd	2,640	5	3				X		X	4
Worcester Rd	Wilkinson Rd	End Of Street	1,056	4	2				X		X	4
Worcester Rd	Wilkinson Rd	End Of Street	1,056	5	2				X		X	4
Groveland Av.	Bee Ridge Rd	Edgewood Ter	1,056	4	2				X		X	4
Groveland Av.	Bee Ridge Rd	Edgewood Ter	1,056	4	2				X		X	4
Groveland Av.	Wilkinson Rd	Hymount Av	1,056	4	2				X		X	4
Groveland Av	Wilkinson Rd	Hymount Av	1,056	4	2				X		X	4
Hymount Av	Groveland Av	Groveland Av	1,320	4	2				X		X	4
Hymount Av	Groveland Av	Groveland Av	1,320	4	3				X		X	4
Edgewood Ter	Worcester Rd	Murdock Av.	528	4	2	X					X	4
Edgewood Ter	Worcester Rd	Murdock Av.	528	3	2		X				X	4
Murdock Av.	Bee Ridge Rd	Wilkinson Rd	2,640	7	3				X		X	4
Murdock Av.	Bee Ridge Rd	Wilkinson Rd	2,640	3	3				X		X	4
Murdock Av	Mohawk Street	SR 72 : Clark Rd	1,320	4	2				X		X	4
Murdock Av	Mohawk Street	SR 72 : Clark Rd	1,320	5	2				X		X	4
Murdock Av.	SR 72 : Clark Rd	Abby Ln	1,584	4	2				X		X	4
Murdock Av.	SR 72 : Clark Rd	Abby Ln	1,584	4	2				X		X	4
Murdock Av	Mayflower Street	Savage Rd	528	5	2				X		X	4
Murdock Av.	Mayflower Street	Savage Rd	528	4	2				X		X	4
Olive Av	Maiden Ln	North End Of Street	528	3	2				X		X	4
Olive Av	Maiden Ln	North End Of Street	528	4	3				X		X	4
Olive Av	Mohawk Street	SR 72 : Clark Rd	1,056	4	3				X		X	4
Olive Av	Mohawk Street	SR 72 : Clark Rd	1,056	4	3				X		X	4
Olive Av	SR 72 : Clark Rd	Williamsburg Street	1,056	4	2				X		X	4
Olive Av	SR 72 : Clark Rd	Williamsburg Street	1,056	5	2				X		X	4
Olive Av	Abby Ln	Savage Rd	792	4	2				X		X	4
Olive Av	Abby Ln	Savage Rd	792	4	3				X		X	4
Augustine Av	Wilkinson Rd	Maiden Ln	1,320	4	3				X		X	4
Augustine Av	Wilkinson Rd	Maiden Ln	1,320	4	2				X		X	4
Nelson Av	Bee Ridge Rd	Maiden Ln	1,320	4	4				X		X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Nelson Av	Bee Ridge Rd	Maiden Ln	1,328	3	3				X		X	4
Nelson Av	Maiden Ln	Peachtree Street	528	3	3			X			X	4
Nelson Av	Maiden Ln	Peachtree Street	528	4	2				X		X	4
Nelson Av	Peachtree Street	Wilkinson Rd	528	0	0			X			X	4
Nelson Av	Peachtree Street	Wilkinson Rd	528	4	2				X		X	4
Nelson Av	Spirea Street	Jamaica Street	528	0	0			X			X	4
Nelson Av	Spirea Street	Jamaica Street	528	0	0				X		X	4
Nelson Av	Mayflower Street	South Of Williamsburg Street	528	4	3			X			X	4.5
Nelson Av	Mayflower Street	South Of Williamsburg Street	528	3	2				X		X	4.5
Nelson Av	South Of Williamsburg St	SR 72 Clark Rd	792	7	4			X			X	4.5
Nelson Av	South Of Williamsburg St	SR 72 Clark Rd	792	3	2				X		X	4.5
Iola Av	Bee Ridge Rd	Maiden Ln	1,056	4	2			X			X	4
Iola Av	Bee Ridge Rd	Maiden Ln	1,056	3	2				X		X	4
Iola Av	Maiden Ln	Peachtree Street	528	3	3			X			X	4
Iola Av	Maiden Ln	Peachtree Street	528	0	0				X		X	4
Iola Av	Peachtree Street	Wilkinson Rd	528	0	0			X			X	4
Iola Av	Peachtree Street	Wilkinson Rd	528	0	0				X		X	4
Iola Av	Spirea Street	Jamaica Street	528	3	0			X			X	4
Iola Av	Spirea Street	Jamaica Street	528	0	0				X		X	4
Rockefeller Av	Bee Ridge Rd	Maiden Ln	1,056	6	3			X			X	4
Rockefeller Av	Bee Ridge Rd	Maiden Ln	1,056	3	3				X		X	4
Rockefeller Av	SR 72 Clark Rd	Lexington Street	264	0	0			X			X	4.5
Rockefeller Av	SR 72 Clark Rd	Lexington Street	264	3	2				X		X	4.5
Rockefeller Av	Lexington Street	New England Street	528	0	0			X			X	4.5
Rockefeller Av	Lexington Street	New England Street	528	4	2				X		X	4.5
Rockefeller Av	New England Street	Williamsburg Street	264	10-194	0			X			X	4.5
Rockefeller Av	New England Street	Williamsburg Street	264	10-194	0				X		X	4.5
Bell Av	Bee Ridge Rd	Gladstone Street	1,584	4	2			X			X	4
Bell Av	Bee Ridge Rd	Gladstone Street	1,584	4	2				X		X	4
Bell Av	Gladstone Street	Start Of Street	264	4	3			X			X	4
Bell Av	Gladstone Street	Start Of Street	264	0	0				X		X	4
Morning Place	South Of Gladstone Street	North Of Gladstone Street	528	3	2			X			X	4
Morning Place	South Of Gladstone Street	North Of Gladstone Street	528	3	2				X		X	4
Glory Place	South Of Gladstone Street	North Of Gladstone Street	528	0	0			X			X	4
Glory Place	South Of Gladstone Street	North Of Gladstone Street	528	0	0				X		X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDTH	SLOPE	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Gladstone Street	Hell Av	Beneva Rd	1,056	3	2	X					X	4
Gladstone Street	Hell Av	Beneva Rd	1,056	3	2		X				X	4
Kalla Ln	Lockwood Ridge Rd	Nelson Av	528	4	2	X					X	4
Kalla Ln	Lockwood Ridge Rd	Nelson Av	528	4	2		X				X	4
Peachtree Street	Lockwood Ridge Rd	Iola Av	792	4	3	X					X	4
Peachtree Street	Lockwood Ridge Rd	Iola Av	792	5	2		X				X	4
Peachtree Street	Lockwood Ridge Rd	Olive Av End Of Street	264	4	3	X					X	4
Peachtree Street	Lockwood Ridge Rd	Olive Av End Of Street	264	0	0		X				X	4
Cactus Av	Peachtree Street	Wilkinson Rd	528	4	2			X			X	4
Cactus Av	Peachtree Street	Wilkinson Rd	528	4	2				X		X	4
Spirea Street	Groveland Av	Murdock Av	264	3	3	X					X	4
Spirea Street	Groveland Av	Murdock Av	264	4	2		X				X	4
Spirea Street	Groveland Av	Iola Av	1,056	4	3	X					X	4
Spirea Street	Lockwood Ridge Rd	Iola Av	1,056	4	2		X				X	4
Spirea Street	Lockwood Ridge Rd	Olive Av	264	4	2	X					X	4
Spirea Street	Lockwood Ridge Rd	Olive Av	264	0	0		X				X	4
Alhambra Av	Wilkinson Rd	Monterey Street	264	5	2			X			X	4
Alhambra Av	Wilkinson Rd	Monterey Street	264	4	3				X		X	4
Monterey Street	Alhambra Av	Claremont Av	528	0	0	X					X	4
Monterey Street	Alhambra Av	Claremont Av	528	4	3		X				X	4
Monterey Street	Claremont Av	Start Of Street	1,056	7	4	X					X	4
Monterey Street	Claremont Av	Start Of Street	1,056	4	1		X				X	4
Claremont Street	Monterey Street	Wilkinson Rd	528	5	2			X			X	4
Claremont Street	Monterey Street	Wilkinson Rd	528	4	3				X		X	4
Burbank Av	Wilkinson Rd	Monterey Street	528	4	2			X			X	4
Burbank Av	Wilkinson Rd	Monterey Street	528	4	2				X		X	4
Aubrey Ln	Riverwood Av	Shade Av	528	4	3	X					X	4
Aubrey Ln	Riverwood Av	Shade Av	528	3	2		X				X	4
Mill Terrace	School Av	Riverwood Av	528	4	2	X					X	4
Mill Terrace	School Av	Riverwood Av	528	3	2		X				X	4
Palm Terrace	Riverwood Av	Shade Av	528	0	0	X					X	4
Palm Terrace	Riverwood Av	Shade Av	528	4	2		X				X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Palm Terrace	Riverwood Av.	School Av.	528	3	2	X					X	4
Palm Av.	Riverwood Av.	School Av.	528	3	2		X				X	4
Oak Terrace	Start W. Of Riverwood Av.	Start E. Of Riverwood Av.	1,848	3	2	X					X	4
Oak Terrace	Start W. Of Riverwood Av.	Start E. Of Riverwood Av.	1,848	4	2		X				X	4
Florida Street	East End Of Street	Riverwood Av.	264	5	3	X					X	4
Florida Street	East End Of Street	Riverwood Av.	264	0	0		X				X	4
Florida Street	Riverwood Av.	School Av.	528	0	0	X					X	4
Florida Street	Riverwood Av.	School Av.	528	5	2		X				X	4
Florida Street	School Av.	North Tamiami Trail	1,320	4	2	X					X	4
Florida Street	School Av.	North Tamiami Trail	1,320	4	2		X				X	4
Crystal Av.	Proctor Rd.	Lynn Street	264	4	2			X			X	4
Crystal Av.	Proctor Rd.	Lynn Street	264	6	2				X		X	4
Lynn Street	School Av.	Riverwood Av.	528	5	2	X					X	4
Lynn Street	School Av.	Riverwood Av.	528	0	0		X				X	4
Grand Cayman Street	Lords Av.	Swift Rd.	1,320	4	2	X					X	4
Grand Cayman Street	Lords Av.	Swift Rd.	1,320	4	2		X				X	4
Grand Cayman Street	Swift Rd.	Midland Rd.	528	0	0	X					X	4
Grand Cayman Street	Swift Rd.	Midland Rd.	528	3	2		X				X	4
Sunniland Street	Hollingsworth Av.	Sawyer Rd.	1,320	4	4	X					X	4
Sunniland Street	Hollingsworth Av.	Sawyer Rd.	1,320	5	2		X				X	4
Sunniland Street	McIntosh Rd.	Harris Av.	792	4	2	X					X	4
Sunniland Street	McIntosh Rd.	Harris Av.	792	2	1		X				X	4
Garcia Av.	Sunniland Street	Jamaica Street	528	0	0			X			X	4
Garcia Av.	Sunniland Street	Jamaica Street	528	4	2				X		X	4
Violet Av.	Jamaica Street	Sunniland Street	528	0	0			X			X	4
Violet Av.	Jamaica Street	Sunniland Street	528	2	2				X		X	4
Sloan Av.	Jamaica Street	Proctor Rd.	1,056	0	0			X			X	4
Sloan Av.	Jamaica Street	Proctor Rd.	1,056	5	3				X		X	4
Harris Av.	Proctor Rd.	Sunniland Street	1,056	5	1			X			X	4
Harris Av.	Proctor Rd.	Sunniland Street	1,056	4	1				X		X	4
Harris Av.	Proctor Rd.	Gypsy Street	1,320	5	2			X			X	4
Harris Av.	Proctor Rd.	Gypsy Street	1,320	4	4				X		X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
George Av	Sunniland Street	Proctor Rd	528	4	2			X			X	4
George Av	Sunniland Street	Proctor Rd	528	4	2				X		X	4
Jamaica Street	Flatbush Av.	Atlantic Av.	264	0	6	X					X	4
Jamaica Street	Flatbush Av.	Atlantic Av.	264	5	3		X				X	4
Bliss Rd.	Wilkinson Rd	Diamond Cir. South	1,056	5	4			X			X	4
Bliss Rd	Wilkinson Rd	Diamond Cir. South	1,056	10-108	10-108				X		X	4
Bliss Rd	Diamond Cir. South	Proctor Rd	1,584	8	3			X			X	4
Bliss Rd	Diamond Cir. South	Proctor Rd.	1,584	10-108	10-108				X		X	4
Bliss Rd.	Proctor Rd.	Ashlon Rd.	2,370	8	3			X			X	4
Bliss Rd.	Proctor Rd	Ashlon Rd	2,370	4	2				X		X	4
Hackamore Rd.	Proctor Rd	End Of Maintained Rd.	1,320	5	3			X			X	4
Hackamore Rd	Proctor Rd.	End Of Maintained Rd.	1,320	5	2				X		X	4
Proctor Rd	Flatbush Av.	Honore Av	4,224	10	4	X					X	4
Proctor Rd.	Flatbush Av.	Honore Av	4,224	5	3		X				X	4
Proctor Rd.	Honore Av.	Gantt Rd	2,370	4	3	X					X	4
Proctor Rd	Honore Av.	Gantt Rd.	2,370	5	2		X				X	4
Proctor Rd	I-75	SR 72 Clark Rd.	11,880	4	2	X					X	4
Proctor Rd.	I-75	SR 72 Clark Rd.	11,880	5	4		X				X	4
Riverwood Av	Proctor Rd.	Cameron Ln.	2,640	6	3			X			X	4
Riverwood Av.	Proctor Rd.	Cameron Ln.	2,640	5	3				X		X	4
Riverwood Av	Proctor Rd.	Haley Ln	3,168	4	3			X			X	4
Riverwood Av	Proctor Rd.	Haley Ln	3,168	0	0				X		X	4
Cadillac Street	Riverwood Av.	Cadillac Way	528	4	2	X					X	4
Cadillac Street	Riverwood Av	Cadillac Way	528	4	2		X				X	4
La Salle Street	Las Lomas Dr.	Northwood Av.	792	4	2	X					X	4
La Salle Street	Las Lomas Dr.	Northwood Av	792	5	3		X				X	4
Cadillac Way	Cadillac Street	La Salle Street	264	1	2			X			X	4
Cadillac Way	Cadillac Street	La Salle Street	264	0	0				X		X	4
La Salle Street	Cadillac Street	La Salle Street	264	4	2			X			X	4
La Salle Street	Cadillac Street	La Salle Street	264	5	2				X		X	4
La Salle Street	La Salle Way	Northwood Av	264	4	2	X					X	4
La Salle Street	La Salle Way	Northwood Av	264	5	2		X				X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Lee Ln	Las Lomas Dr	Northwood Av.	792	6	2	X					X	4
Joe Ln.	Las Lomas Dr.	Northwood Av	792	5	2		X				X	4
Las Lomas Dr.	La Salle Street	Outer Dr.	528	5	2			X			X	4
Las Lomas Dr.	La Salle Street	Outer Dr.	528	5	2				X		X	4
Shawnee Street	Las Lomas Dr	Northwood Av	792	4	2	X					X	4
Shawnee Street	Las Lomas Dr	Northwood Av.	792	5	3		X				X	4
Outer Dr.	Las Lomas Dr.	Northwood Av	792	4	2	X					X	4
Outer Dr.	Las Lomas Dr	Northwood Av.	792	3	2		X				X	4
Outer Dr.	Northwood Av	Riverwood Av	528	4	2	X					X	4
Outer Dr.	Northwood Av	Riverwood Av.	528	3	2		X				X	4
Phillippi Street	North Tamiami Trail	Riverwood Av	1,848	3	2	X					X	4
Phillippi Street	North Tamiami Trail	Riverwood Av.	1,848	7	3		X				X	4
Susan Av	Phillippi Street	Alice Rd.	264	4	2			X			X	4
Susan Av.	Phillippi Street	Alice Rd	264	3	3				X		X	4
Bradford Street	Bradford Way	Riverwood Av.	528	4	2	X					X	4
Bradford Street	Bradford Way	Riverwood Av	528	3	2		X				X	4
Admiral Way	Riverwood Av	Admiral Place	528	5	2	X					X	4
Admiral Way	Riverwood Av	Admiral Place	528	5	2		X				X	4
Admiral Place	Admiral Way	End Of Street	528	3	2			X			X	4
Admiral Place	Admiral Way	End Of Street	528	4	2				X		X	4
Lords Av.	Nassau Street	Dueby Street	1,056	5	3			X			X	4
Lords Av	Nassau Street	Dueby Street	1,056	5	2				X		X	4
Lords Av.	Dueby Street	Proctor Rd	528	3	2			X			X	4
Lords Av	Dueby Street	Proctor Rd	528	0	0				X		X	4
Lords Av.	Proctor Rd	Parma Street	1,584	4	2			X			X	4
Lords Av.	Proctor Rd	Parma Street	1,584	3	2				X		X	4
Lords Av	Parma Street	Ashton Rd	1,056	4	2			X			X	4
Lords Av.	Parma Street	Ashton Rd	1,056	3	4				X		X	4
Creek Dr	Ashton Rd.	Arapaho Street	792	5	2			X			X	4
Creek Dr.	Ashton Rd.	Arapaho Street	792	0	0				X		X	4
Ashton Rd.	Creek Dr	West Of Portland Way	528	5	3	X					X	4
Ashton Rd	Creek Dr.	West Of Portland Way	528	4	3		X				X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPT	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Ashton Rd.	West Of Portland Way	Swift Rd.	2,112	4	6	X					X	4
Ashton Rd.	West Of Portland Way	Swift Rd.	2,112	4	6		X				X	4
Ashton Rd.	Swift Rd.	Lockwood Ridge Rd.	2,640	5	3	X					X	4
Ashton Rd.	Swift Rd.	Lockwood Ridge Rd.	2,640	2	5		X				X	4
Ashton Rd.	Lockwood Ridge Rd.	End Of Street / Fox Run	1,056	4	3	X					X	4
Ashton Rd.	Lockwood Ridge Rd.	End Of Street / Fox Run	1,056	4	4		X				X	4
Ashton Rd.	Sawyer Rd.	McIntosh Rd.	2,640	3	6	X					X	4
Ashton Rd.	Sawyer Rd.	McIntosh Rd.	2,640	3	6		X				X	4
Ashton Rd.	McIntosh Rd.	Gantt Rd.	7,920	5	3	X					X	4
Ashton Rd.	McIntosh Rd.	Gantt Rd.	7,920	5	3		X				X	4
Hope Street	Swift Rd.	Lords Av.	792	2	3	X					X	4
Hope Street	Swift Rd.	Lords Av.	792	2	3		X				X	4
Austin Street	Lords Av.	Swift Rd.	792	4	2	X					X	4
Austin Street	Lords Av.	Swift Rd.	792	4	2		X				X	4
Austin Street	Porpoise Dr.	Start Of Street	1,056	4	2	X					X	4
Austin Street	Porpoise Dr.	Start Of Street	1,056	3	2		X				X	4
Austin Street	Porpoise Dr.	Beneva Rd.	1,584	4	2	X					X	4
Austin Street	Porpoise Dr.	Beneva Rd.	1,584	3	2		X				X	4
Austin Street	Harris Av.	McIntosh Rd.	528	4	2	X					X	4
Austin Street	Harris Av.	McIntosh Rd.	528	3	3		X				X	4
Fort Worth Street	Swift Rd.	Lords Av.	792	4	2	X					X	4
Fort Worth Street	Swift Rd.	Lords Av.	792	4	2		X				X	4
Herswald Street	Lords Av.	Swift Rd.	1,056	3	2	X					X	4
Herswald Street	Lords Av.	Swift Rd.	1,056	4	2		X				X	4
Parma Street	Swift Rd.	Lords Av.	792	5	2	X					X	4
Parma Street	Swift Rd.	Lords Av.	792	4	2		X				X	4
Parma Street	Lords Av.	Start Of Street	792	5	3	X					X	4
Parma Street	Lords Av.	Start Of Street	792	5	2		X				X	4
Grafton Street	Swift Rd.	East End Of Street	528	3	2	X					X	4
Grafton Street	Swift Rd.	East End Of Street	528	4	3		X				X	4
Grafton Street	Lockwood Ridge Rd.	West End Of Street	528	5	4	X					X	4
Grafton Street	Lockwood Ridge Rd.	West End Of Street	528	5	5		X				X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Camphor Av.	Proctor Rd.	Gypsy Street	1,320	6	3			X			X	4
Camphor Av.	Proctor Rd.	Gypsy Street	1,320	5	3				X		X	4
Olympia Street	Lockwood Ridge Rd.	West End Of Street	528	5	3	X					X	4
Olympia Street	Lockwood Ridge Rd.	West End Of Street	528	3	3		X				X	4
Olympia Street	Swift Rd.	East End Of Street	528	4	3	X					X	4
Olympia Street	Swift Rd.	East End Of Street	528	5	3		X				X	4
Gypsy Street	Swift Rd.	East End Of Street	528	4	2	X					X	4
Gypsy Street	Swift Rd.	East End Of Street	528	5	2		X				X	4
Gypsy Street	Camphor Av.	Lockwood Ridge Rd.	1,056	4	4	X					X	4
Gypsy Street	Camphor Av.	Lockwood Ridge Rd.	1,056	4	4		X				X	4
Gypsy Street	McIntosh Rd.	Baccus Av.	1,056	4	2	X					X	4
Gypsy Street	McIntosh Rd.	Baccus Av.	1,056	4	2		X				X	4
Elmer Street	West End Of Street	Lockwood Ridge Rd.	528	4	3	X					X	4
Elmer Street	West End Of Street	Lockwood Ridge Rd.	528	3	3		X				X	4
Restful Ln	Lockwood Ridge Rd.	Restful Way	528	4	2	X					X	4
Restful Ln	Lockwood Ridge Rd.	Restful Way	528	3	3		X				X	4
Restful Way	Restful Ln.	Ashton Rd.	264	5	3			X			X	4
Restful Way	Restful Ln	Ashton Rd.	264	6	4				X		X	4
Buchanan Place	Austin Street	Cul - De - Sac	528	4	1			X			X	4
Buchanan Place	Austin Street	Cul - De - Sac	528	2	2				X		X	4
Montevista Dr.	Austin Street	Plantation Dr.	528	0	0			X			X	4
Montevista Dr.	Austin Street	Plantation Dr.	528	0	0				X		X	4
Plantation Dr.	Austin Street	Porpoise Dr.	1,320	4	3	X					X	4
Plantation Dr.	Austin Street	Porpoise Dr.	1,320	4	3		X				X	4
Plantation Dr.	Porpoise Dr.	Beneva Rd.	1,320	5	2	X					X	4
Plantation Dr.	Porpoise Dr.	Beneva Rd.	1,320	5	3		X				X	4
Porpoise Dr.	Austin Street	Plantation Dr.	528	3	2			X			X	4
Porpoise Dr.	Austin Street	Plantation Dr.	528	0	0				X		X	4
Plantation Place	Plantation Dr.	Cul - De - Sac	264	4	4			X			X	4
Plantation Place	Plantation Dr.	Cul - De - Sac	264	4	2				X		X	4
Plantation Terrace	Plantation Dr.	Cul - De - Sac	264	4	4			X			X	4
Plantation Terrace	Plantation Dr.	Cul - De - Sac	264	4	3				X		X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE NORTH DEPTH SIDE	SOUTH H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Austin Cir.	Austin Street	Cul - De - Sac	264	2	2			X		X	4
Austin Cir.	Austin Street	Cul - De - Sac	264	2	2				X	X	4
Cross Creek Rd	Austin Street	End Of Street	175	4	2			X		X	4
Cross Creek Rd	Austin Street	End Of Street	175	0	0				X	X	4
Marigold Place	Austin Street	Cul - De - Sac	264	3	3			X		X	4
Marigold Place	Austin Street	Cul - De - Sac	264	3	3				X	X	4
Malco Cir.	Proctor Rd	Malco Cir.	3,904	5	4			X		X	4
Malco Cir.	Proctor Rd	Malco Cir.	3,904	4	3				X	X	4
Baccus Av.	Proctor Rd.	Gypsy Street	1,320	3	3			X		X	4
Baccus Av.	Proctor Rd	Gypsy Street	1,320	5	3				X	X	4
Andrew Av.	Proctor Rd	Gypsy Street	1,056	4	2			X		X	4
Andrew Av.	Proctor Rd.	Gypsy street	1,056	3	3				X	X	4
Greenleaf Rd.	Proctor Rd	Cul - De - Sac	528	5	2			X		X	4
Greenleaf Rd.	Proctor Rd.	Cul - De - Sac	528	5	3				X	X	4
Greenleaf Rd	Bliss Rd.	Cul - De - Sac	792	4	3	X				X	4
Greenleaf Rd.	Bliss Rd.	Cul - De - Sac	792	4	3		X			X	4
Las Vegas Dr	Proctor Rd.	Start Of St. So. Of Nevada	1,320	3	3			X		X	4
Las Vegas Dr.	Proctor Rd	Start Of St. So. Of Nevada	1,320	4	3				X	X	4
Nevada Way	Las Vegas Dr	Reno Dr.	264	4	2	X				X	4
Nevada Way	Las Vegas Dr	Reno Dr	264	4	3		X			X	4
Reno Dr.	Nevada Way	Proctor Rd	1,760	3	3			X		X	4
Reno Dr.	Nevada Way	Proctor Rd	1,056	4	3				X	X	4
Elizabeth Av	Proctor Rd	Start Of Street South	1,320	4	4			X		X	4
Elizabeth Av	Proctor Rd	Start Of Street South	1,320	4	4				X	X	4
Victoria Av	Proctor Rd	Start Of Street South	1,320	4	2			X		X	4
Victoria Av	Proctor Rd	Start Of Street South	1,320	0	0				X	X	4
Mohawk Street	Lockwood Ridge Rd	Nutmeg Av.	792	4	2	X				X	4
Mohawk Street	Lockwood Ridge Rd	Nutmeg Av.	792	0	0		X			X	4
Osage Terrace	Nutmeg Av.	Lockwood Ridge Rd	792	4	2	X				X	4
Osage Terrace	Nutmeg Av	Lockwood Ridge Rd	792	4	3		X			X	4
Ruby Ln	Ashton Rd.	Start Of Street	1,056	4	2			X		X	4
Ruby Ln	Ashton Rd.	Start Of Street	1,056	3	2				X	X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Sawyer Cir.	Sawyer Rd	Sawyer Rd	1056	4	3	X					X	4
Sawyer Cir.	Sawyer Rd	Sawyer Rd	1056	5	2		X				X	4
Lambert Place	SR 72 Clark Rd	Clover Ln.	175	5	2			X			X	4
Lambert Place	SR 72 Clark Rd	Clover Ln.	175	4	3				X		X	4
Clover Ln.	Lambert Place	St. Louis Av.	528	4	2	X					X	4
Clover Ln.	Lambert Ln	St. Louis Av.	528	3	2		X				X	4
St. Charles Cir.	St. Louis Av.	Clover Ln.	792	3	3	X					X	4
St. Charles Cir.	St. Louis Av.	Clover Ln.	792	4	2		X				X	4
Afton Way	St. Louis Av.	Afton Cir.	300	3	2	X					X	4
Afton Way	St. Louis Av.	Afton Cir.	300	4	3		X				X	4
Afton Place	Afton Cir.	Ferguson St.	264	3	2			X			X	4
Afton Place	Afton Cir.	Ferguson St.	264	3	3				X		X	4
Afton Cir.	Ferguson St.	Ferguson St.	1848	4	2	X					X	4
Afton Cir.	Ferguson St.	Ferguson St.	1848	5	2		X				X	4
Ferguson Street	Afton Cir.	St. Louis Av.	1056	5	3	X					X	4
Ferguson Street	Afton Cir.	St. Louis Av.	1056	5	2		X				X	4
St. Louis Av.	SR 72 Clark Rd	End Of Street	1056	4	4			X			X	4
St. Louis Av.	SR 72 Clark Rd	End Of Street	1056	5	1				X		X	4
Portland Street	West Start Of Street	East Start Of Street	792	3	2	X					X	4
Portland Street	West Start Of Street	East Start Of Street	792	0	0		X				X	4
Richard Place	SR 72 Clark Rd	Unnamed Alley	1056	5	4			X			X	4
Richard Place	SR 72 Clark Rd	Unnamed Alley	1056	5	3				X		X	4
Lords Av.	Unnamed Alley	SR 72 Stickney Pl	792	5	3			X			X	4
Lords Av.	Unnamed Alley	SR 72 Stickney Pl	792	6	4				X		X	4
Albert Place	SR 72 Clark Rd.	Unnamed Alley	792	6	5			X			X	4
Albert Place	SR 72 Clark Rd	Unnamed Alley	792	6	4				X		X	4
Denham Dr.	SR 72 Clark Rd	Terry Ln. - Rodgers Av.	264	5	2			X			X	5
Denham Dr.	SR 72 Clark Rd	Terry Ln. - Rodgers Av.	264	5	2				X		X	5
Rodgers Av.	Terry Ln. - Denham Dr.	Eloise Street	1320	5	3			X			X	5
Rodgers Av.	Terry Ln. - Denham Dr.	Eloise Street	1320	5	2				X		X	5
Eloise Street	Start Of St. W. Of Rodgers	Carlton Av.	264	4	3	X					X	5
Eloise Street	Start Of St. W. Of Rodgers	Carlton Av.	264	5	2		X				X	5

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Carlton Av.	Eloise St	Terry Ln	1848	5	2			X			X	5
Carlton Av.	Eloise St	Terry Ln	1848	5	2				X		X	5
Terry Ln	Carlton Av	Rodgers Av.	528	5	3	X					X	5
Terry Ln	Carlton Av.	Rodgers Av.	528	4	2		X				X	5
Linda Street	Rodgers Av	Carlton Av.	264	6	3	X					X	5
Linda Street	Rodgers Av	Carlton Av.	264	3	3		X				X	5
Colonial Dr.	SR 72 Clark Rd	Williamsburg St	1056	6	2			X			X	5
Colonial Dr.	SR 72 Clark Rd	Williamsburg St.	1056	5	4				X		X	5
Lexington Street	Colonial Dr.	Nutmeg Av.	1100	6	4	X					X	5
Lexington Street	Colonial Dr.	Nutmeg Av.	1100	4	3		X				X	5
Lexington Street	Nutmeg Av.	Murdock Av.	264	3	2	X					X	5
Lexington Street	Nutmeg Av	Murdock Av.	264	3	2		X				X	5
Williamsburg Street	Murdock Av	Olive Av	200	4	3	X					X	5
Williamsburg Street	Murdock Av.	Olive Av.	200	6	2		X				X	5
Williamsburg Street	Olive Av.	Lockwood Ridge Rd	200	3	3	X					X	5
Williamsburg Street	Olive Av	Lockwood Ridge Rd.	200	5	3		X				X	5
Williamsburg Street	Lockwood Ridge Rd	Nelson Av.	528	3	4	X					X	5
Williamsburg Street	Lockwood Ridge Rd	Nelson Av.	528	5	4		X				X	5
Williamsburg Street	Nelson Av	Rockefeller Av	528	4	2	X					X	5
Williamsburg Street	Nelson Av.	Rockefeller Av.	528	3	3		X				X	5
New England Street	10-193	Nutmeg Av.	528	4	2	X					X	5
New England Street	10-193	Nutmeg Av.	528	3	5		X				X	5
New England Street	Lockwood Ridge Rd.	Nelson Av.	528	4	4	X					X	5
New England Street	Lockwood Ridge Rd	Nelson Av.	528	4	3		X				X	5
New England Street	Nelson Av.	Rockefeller Av.	528	5	3	X					X	5
New England Street	Nelson Av	Rockefeller Av	528	3	3		X				X	5
Lexington Street	Rockefeller Av	Nelson Av.	528	3	2	X					X	5
Lexington Street	Rockefeller Av	Nelson Av.	528	3	3		X				X	5
Lexington Street	Nelson Av	Lockwood Ridge Rd	528	3	2	X					X	5
Lexington Street	Nelson Av.	Lockwood Ridge Rd	528	4	3		X				X	5
Lexington Street	Lockwood Ridge Rd	Olive Av.	200	3	2	X					X	5
Lexington Street	Lockwood Ridge Rd	Olive Av	200	4	3		X				X	5
Lexington Street	Olive Av	Murdock Av.	264	3	3	X					X	5
Lexington Street	Olive Av.	Murdock Av.	264	3	3		X				X	5
Lexington Street	Murdock Av.	Nutmeg Av.	264	4	2	X					X	5
Lexington Street	Murdock Av	Nutmeg Av.	264	4	2		X				X	5

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Lexington Street	East End Of Colonial Dr.	Colonial Dr.	528	3	3	X					X	5
Lexington Street	East End Of Colonial Dr.	Colonial Dr.	528	3	2		X				X	5
Concord Street	Murdock Av.	Camphor Av.	792	3	3	X					X	5
Concord Street	Murdock Av.	Camphor Av.	792	3	2		X				X	5
Abby Ln.	Lockwood Ridge Rd	Murdock Av.	792	3	3	X					X	5
Abby Ln.	Lockwood Ridge Rd	Murdock Av.	792	3	3		X				X	5
Pauline Av.	Concord St	Savage Rd	1056	5	3			X			X	5
Pauline Av.	Concord St	Savage Rd	1056	7	3				X		X	5
Mayflower Street	Lockwood Ridge Rd	Camphor Av.	1056	4	2	X					X	5
Mayflower Street	Lockwood Ridge Rd	Camphor Av.	1056	6	3		X				X	5
Savage Rd.	Seagate Av	Lockwood Ridge Rd	1320	8	5	X					X	5
Savage Rd.	Seagate Av	Lockwood Ridge Rd	1320	5	2		X				X	5
Mayflower Street	Camphor Av	10-193	100	4	2	X					X	5
Mayflower Street	Camphor Av	10-193	100	3	2		X				X	5
Yorktown Street	Rockefeller Av.	Lockwood Ridge Rd	1056	5	2	X					X	5
Yorktown Street	Rockefeller Av.	Lockwood Ridge Rd	1056	5	3		X				X	5
Yorktown Street	Nutmeg Av	10-190	1848	6	4	X					X	5
Yorktown Street	Nutmeg Av	10-190	1848	5	2		X				X	5
Mirror Lake Rd	SR 72 Clark Rd.	Memdale Rd.	1848	5	3			X			X	4
Mirror Lake Rd	SR 72 Clark Rd.	Memdale Rd.	1848	5	2				X		X	4
Bernice Ln	Mirror Lake Rd	East End Of Street	264	5	4	X					X	4
Bernice Ln.	Mirror Lake Rd.	East End Of Street	264	4	3		X				X	4
Emily Ln.	Mirror Lake Rd.	East End Of Street	264	4	2	X					X	4
Emily Ln.	Mirror Lake Rd.	East End Of Street	264	3	2		X				X	4
Mary Ln.	East End Of Street	Beneva Rd	528	5	7	X					X	4
Mary Ln.	East End Of Street	Beneva Rd.	528	5	2		X				X	4
Carol Ln	Mirror Lake Rd.	East End Of Street	264	5	3	X					X	4
Carol Ln.	Mirror Lake Rd.	East End Of Street	264	5	2		X				X	4
Dorst Ln.	Mirror Lake Rd.	East End Of Street	264	5	2	X					X	4
Dorst Ln.	Mirror Lake Rd.	East End Of Street	264	4	3		X				X	4
Pinkney Av.	SR 72 Clark Rd.	Ashton Rd.	2640	6	4			X			X	4
Pinkney Av.	SR 72 Clark Rd.	Ashton Rd	2640	10-188	10-188				X		X	4
Jamaica Street	Swift Rd	Lords Av	1056	4	3	X					X	4
Jamaica Street	Swift Rd	Lords Av	1056	0	11		X				X	4
Trinidad Street	West End Of Street	Lords Av	528	6	3	X					X	4
Trinidad Street	West End Of Street	Lords Av	528	6	5		X				X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Trinidad Street	Lords Av	Swift Rd	1100	5	1	X					X	4
Trinidad Street	Lords Av	Swift Rd	1100	5	2		X				X	4
Trinidad Street	Swift Rd	South End Of Street	528	4	2	X					X	4
Trinidad Street	Swift Rd	East End Of Street	528	0	0		X				X	4
Nassau Street	West End Of Street	Lords Av	1056	4	3	X					X	4
Nassau Street	West End Of Street	Lords Av	1056	5	3		X				X	4
Nassau Street	Lords Av	Swift Rd	1056	4	2	X					X	4
Nassau Street	Lords Av	Swift Rd	1056	5	2		X				X	4
Hummingbird Av	SR 72 Clark Rd	Tanager Street	1056	3	4			X			X	4
Hummingbird Av	SR 72 Clark Rd	Tanager Street	1056	5	3				X		X	4
Hummingbird Av	Tanager Street	Hawkins Rd	1320	0	0			X			X	4
Hummingbird Av	Tanager Street	Hawkins Rd	1320	3	3				X		X	4
Goldfinch Street	Hummingbird Av	Hawkins Rd	2112	5	3	X					X	4
Goldfinch Street	Hummingbird Av	Hawkins Rd	2112	5	2		X				X	4
Caracara Street	Hawkins Rd	Hummingbird Av	2112	6	3	X					X	4
Caracara Street	Hawkins Rd	Hummingbird Av	2112	4	3		X				X	4
Tanager Street	Hummingbird Av	Hawkins Rd	2112	5	3	X					X	4
Tanager Street	Hummingbird Av	Hawkins Rd	2112	3	4		X				X	4
Canary Street	Start Of Street West	Hummingbird Av	2112	5	4	X					X	4
Canary Street	Start Of Street West	Hummingbird Av	2112	5	4		X				X	4
Hawkins Rd	SR 72 Clark Rd	Tanager Street	13,992	10	8			X			X	4
Hawkins Rd	SR 72 Clark Rd	Tanager Street	13,992	3	6				X		X	4
Coash Rd	SR 72 Clark Rd	North End Of Pavement	9240	5	4			X			X	4
Coash Rd	SR 72 Clark Rd	North End Of Pavement	9240	5	4				X		X	4
Ibis Street	SR 72 Clark Rd	Hawkins Rd	2370	5	3			X			X	4
Ibis Street	SR 72 Clark Rd	Hawkins Rd	2370	0	0				X		X	4
Ibis Street	Hawkins Rd	Sernoa Dr	3960	8	8			X			X	4
Ibis Street	Hawkins Rd	Sernoa Dr	3960	5	5				X		X	4
Ibis Street	Sernoa Dr	8300 Ibis Street - Fence Gate	8184	15	5			X			X	4
Ibis Street	Sernoa Dr	8300 Ibis Street - Fence Gate	8184	7	5				X		X	4
Curlew Street	Ibis Street	Dove Rd	4224	3	6	X					X	4
Curlew Street	Ibis Street	Dove Rd	4224	3	5		X				X	4
Dove Rd	SR 72 Clark Rd	Curlew Rd	1056	6	5			X			X	4
Dove Rd	SR 72 Clark Rd	Curlew Rd	1056	5	3				X		X	4
Dove Rd	Curlew Rd	Hawkins Rd	1056	9	9			X			X	4
Dove Rd	Curlew Rd	Hawkins Rd	1056	10	8				X		X	4

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Border Ln.	Beechwood Av	Meadowood Street	528	6	6	X					X	26
Border Ln.	Beechwood Av	Meadowood Street	528	6	4		X				X	26
Hollywood Bv	Meadowood Street	Hazelwood Rd. West	2112	6	2			X			X	26
Hollywood Bv	Meadowood Street	Hazelwood Rd. West	2112	6	4				X		X	26
Hollywood Bv	Hazelwood Rd. West	South End Of Street	528	6	3			X			X	26
Hollywood Bv	Hazelwood Rd. West	South End Of Street	528	6	3				X		X	26
Hazelwood Rd. West	Hollywood Bv	Beechwood Av	264	6	3	X					X	26
Hazelwood Street West	Hollywood Bv	Beechwood Av	264	5	4		X				X	26
Stanford Ln.	Hollywood Bv	West End Of Street	1848	3	5	X					X	26
Stanford Ln.	Hollywood Bv	West End Of Street	1848	3	4		X				X	26
Shelburne Ln	Hollywood Bv	West End Of Street	1584	3	4	X					X	26
Shelburne Ln.	Hollywood Bv	West End Of Street	1584	3	5		X				X	26
Ridgewood Ln.	Hollywood Bv	West End Of Street	1584	3	3	X					X	26
Ridgewood Ln	Hollywood Bv	West End Of Street	1584	3	4		X				X	26
Beechwood Av.	Hazelwood Rd. West	Stuckney Point Rd	1584	5	2			X			X	26
Beechwood Av.	Hazelwood Rd. West	Stuckney Point Rd	1584	3	2				X		X	26
Dawn Street	Avenue B&C	Avenue D	1056	3	4	X					X	26
Dawn Street	Avenue B&C	Avenue D	1056	4	3		X				X	26
Avenue D	SR 72 Clark Rd	Anchorage Street	1584	5	3			X			X	26
Avenue D	SR 72 Clark Rd	Anchorage Street	1584	4	4				X		X	26
Anchorage Street	Avenue D	Avenue C	264	3	3			X			X	26
Anchorage Street	Avenue D	Avenue C	264	0	0				X		X	26
Billings Street	Avenue C	Avenue D	528	4	4	X					X	26
Billings Street	Avenue C	Avenue D	528	4	3		X				X	26
Cheyenne Street	Avenue D	Avenue C	1056	4	3	X					X	26
Cheyenne Street	Avenue D	Avenue C	1056	4	4		X				X	26
Baywood Dr	South Tamiami Trail	Cul - De - Sac	1584	5	5			X			X	26
Baywood Dr.	South Tamiami Trail	Cul - De - Sac	1584	4	3				X		X	26
Baywood Way	Baywood Dr	Cul - De - Sac	792	5	3			X			X	26
Baywood Way	Baywood Dr	Cul - De - Sac	792	3	4				X		X	26
Avenue A	Baywood Dr	Start Of Street South	528	0	6			X			X	26
Avenue A	Baywood Dr.	Start Of Street South	528	6	3				X		X	26
Pinchurst Street	Beneva Rd	South Tamiami Trail	3696	5	5	X					X	?
Pinchurst Street	Beneva Rd	South Tamiami Trail	3696	5	6		X				X	?
Doud Street	South Tamiami Trail	Beneva Rd.	3168	3	2	X					X	?
Doud Street	South Tamiami Trail	Beneva Rd	3168	2	3		X				X	?

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE NORTH DEPTH	SOUTH SIDE	EAST H SIDE	WEST SIDE	CITY	CO	BASIN
Hively Street	Beneva Rd.	Nixon Av.	2112	2	3	X				X	7
Hively Street	Beneva Rd.	Nixon Av.	2112	4	2		X			X	7
Hively Street	Nixon Av.	Dale Av.	528	0	0	X				X	7
Hively Street	Nixon Av.	Dale Av.	528	3	3		X			X	7
Eugene Street	Beneva Rd.	Williams Av.	528	4	3	X				X	7
Eugene Street	Beneva Rd.	Williams Av.	528	4	2		X			X	7
Eugene Street	Williams Av.	Wright Av.	528	3	4	X				X	7
Eugene Street	Williams Av.	Wright Av.	528	3	3		X			X	7
Eugene Street	Wright Av.	Nixon Av.	528	3	2	X				X	7
Eugene Street	Wright Av.	Nixon Av.	528	0	0		X			X	7
Eugene Street	Nixon Av.	South Tamiami Trail	528	0	0	X				X	7
Eugene Street	Nixon Av.	South Tamiami Trail	528	3	3		X			X	7
Nixon Av.	Eugene St.	Doud St.	528	3	4			X		X	7
Nixon Av.	Eugene St.	Doud St.	528	0	0				X	X	7
Dale Av.	Pinchurst St.	Hively St.	528	0	0			X		X	7
Dale Av.	Pinchurst St.	Hively St.	528	0	0				X	X	7
Wright Av.	Eugene St.	Doud St.	528	3	3			X		X	7
Wright Av.	Eugene St.	Doud St.	528	3	3				X	X	7
Wright Av.	Start Of Street North	Eugene St.	150	3	3			X		X	7
Wright Av.	Start Of Street North	Eugene St.	150	3	3				X	X	7
Williams Av.	Eugene St.	Hively St.	264	4	3				X	X	7
Williams Av.	Eugene St.	Hively St.	264	3	3					X	7
Williams Av.	Hively St.	Pinchurst St.	264	3	3			X		X	7
Williams Av.	Hively St.	Pinchurst St.	264	0	0				X	X	7
Brueckner Dr.	South Tamiami Trail	Marianna Dr.	1584	4	4	X				X	7
Brueckner Dr.	South Tamiami Trail	Marianna Dr.	1584	4	4		X			X	7
Cass Street	South Tamiami Trail	Cass Cir.	1584	4	4	X				X	7
Cass Street	South Tamiami Trail	Cass Cir.	1584	3	4		X			X	7
Cass Cir.	Cass St.	Inner Cass Cir.	264	2	3			X		X	7
Cass Cir.	Cass St.	Inner Cass Cir.	264	3	3				X	X	7
Cass Way	South Tamiami Trail	Cass Cir.	528	4	3			X		X	7
Cass Way	South Tamiami Trail	Cass Cir.	528	0	0				X	X	7
Inner Cass Cir.	Cass Cir.	Cass Cir.	792	4	3	X				X	7
Inner Cass Cir.	Cass Cir.	Cass Cir.	792	4	4		X			X	7
Holiday Dr. South	South Tamiami Trail	Holiday Dr. South	528	3	4	X				X	7
Holiday Dr. South	South Tamiami Trail	Holiday Dr. South	528	0	0		X			X	7

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Vamo Rd	South Tamiami Trail	Pelican Cove Rd.	528	0	0	X				N	26	
Vamo Rd.	South Tamiami Trail	Pelican Cove Rd.	528	0	0		X			N	26	
Vamo Rd.	Pelican Cove Rd.	Wharf Rd	3168	4	2	X				N	26	
Vamo Rd.	Pelican Cove Rd.	Wharf Rd	3168	6	3		X			N	26	
Vamo Rd.	Wharf Rd.	Vamo Way	4488	5	3	X				N	26	
Vamo Rd.	Wharf Rd	Vamo Way	4488	5	3		X			N	26	
Vamo Way	Vamo Rd.	Phyllis Av.	1584	0	0	X				N	26	
Vamo Way	Vamo Rd.	Phyllis Av.	1584	8	3		X			N	26	
Vamo Way	Phyllis Av	South Tamiami Trail	528	5	4	X				N	26	
Vamo Way	Phyllis Av.	South Tamiami Trail	528	8	3		X			N	26	
Vamo Way	South Tamiami Trail	Silkwood Ct	528	6	5	X				N	26	
Vamo Way	South Tamiami Trail	Silkwood Ct	528	0	0		X			N	26	
Vamo Way	Silkwood Ct	End Of Street	264	2	3	X				N	26	
Vamo Way	Silkwood Ct	End Of Street	264	0	0		X			N	26	
Phyllis Av	Vamo Way	Wharf Rd.	1320	4	2			X		N	26	
Phyllis Av	Vamo Way	Wharf Rd	1320	4	5				X	N	26	
Pohoy Av.	Wharf Rd	Vamo Way	1056	5	4			X		N	26	
Pohoy Av	Wharf Rd	Vamo Way	1056	4	4				X	N	26	
Wharf Rd	South Tamiami Trail	Dunmore Dr	3432	3	5	X				N	26	
Wharf Rd	South Tamiami Trail	Dunmore Dr	3432	4	5		X			N	26	
Debbie Street	Vamo Rd.	South Tamiami Trail	1056	4	5	X				N	26	
Debbie Street	Vamo Rd	South Tamiami Trail	1056	4	4		X			N	26	
Marbeth Street	South Tamiami Trail	Vamo Rd	1056	5	4	X				N	26	
Marbeth Street	South Tamiami Trail	Vamo Rd	1056	4	4		X			N	26	
Cordes Street	South Tamiami Trail	Cordes Way	1056	6	3	X				N	26	
Cordes Street	South Tamiami Trail	Cordes Way	1056	6	3		X			N	26	
Cordes Way	Cordes St.	Cordes St.	528	3	3	X				N	26	
Cordes Way	Cordes St	Cordes St	528	4	5		X			N	26	
Freymore Street	South Tamiami Trail	Oak Bay Dr	6864	9	2	X				N	26	
Freymore Street	South Tamiami Trail	Oak Bay Dr	6864	7	3		X			N	26	
Washington Av.	South Tamiami Trail	Bay Street North	3904	5	3			X		N	26	
Washington Av	South Tamiami Trail	Bay Street North	3904	5	3				X	N	26	
Patterson Av.	Bay Street North	Ogburn St.	528	4	4			X		N	26	
Patterson Av	Bay Street North	Ogburn St	528	4	4				X	N	26	
Patterson Av	Ogburn St	North End Of Street	2112	0	0			X		N	26	
Patterson Av	Ogburn St	North End Of Street	2112	4	2				X	N	26	

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Pennsylvania Av.	North End Of Street	Church St	1056	11	6			X			X	10
Pennsylvania Av.	North End Of Street	Church St	1056	5	5				X		X	10
Green Street	Pennsylvania Av	Glenwood Av	528	0	0	X					X	10
Green Street	Pennsylvania Av	Glenwood Av	528	5	4		X				X	10
Bay Street East	South Tamiami Trail	Old Venice Rd	2376	8	5	X					X	10
Bay Street East	South Tamiami Trail	Old Venice Rd	2376	11	5		X				X	10
Bay Street East	Old Venice Rd	Faith Av	1584	0	0	X					X	10
Bay Street East	Old Venice Rd	Faith Av	1584	15	6		X				X	10
Bay Street East	Faith Av	Pine Ranch Rd	3432	6	2	X					X	10
Bay Street East	Faith Av	Pine Ranch Rd	3432	10	6		X				X	10
Old Venice Rd	Bay St	South Tamiami Trail	5544	18	9			X			X	10
Old Venice Rd	Bay St	South Tamiami Trail	5544	6	2				X		X	10
Sunset Rd.	Bayshore Dr.	Sarabay Rd	528	5	2	X					X	26
Sunset Dr.	Bayshore Dr	Sarabay Rd	528	5	2		X				X	26
Bayshore Dr.	Sunset Dr.	Bay Av	792	5	3			X			X	26
Bayshore Dr.	Sunset Dr	Bay Av	792	5	2				X		X	26
Bay Vista Av.	Bay Av	Bay Acres Av	528	0	0			X			X	26
Bay Vista Av.	Bay Av.	Bay Acres Av	528	5	2				X		X	26
Sara Bay Rd.	South Tamiami Trail	Start Of Street	2640	7	3			X			X	26
Sara Bay Rd.	South Tamiami Trail	Start Of Street	2640	8	3				X		X	26
Happy Haven Dr	South Tamiami Trail	Start Of Street	792	8	5	X					X	26
Happy Haven Dr	South Tamiami Trail	Start Of Street	792	6	4		X				X	26
Blackburn Point Rd	South Tamiami Trail	Casey Key Rd.	5280	11	6	X					X	26
Blackburn Point Rd.	South Tamiami Trail	Casey Key Rd	5280	10	5		X				X	26
Highland Rd	Shoreland Dr.	North Ln	1056	15	5			X			X	26
Highland Rd	Shoreland Dr.	North Ln	1056	8	4				X		X	26
Shoreland Dr.	South Tamiami Trail	North Ln	1584	10	5			X			X	26
Shoreland Dr.	South Tamiami Trail	North Ln	1584	10	5				X		X	26
Park Dr	Shoreland Dr	Highland Rd	528	8	6	X					X	26
Park Dr.	Shoreland Dr	Highland Rd	528	7	5		X				X	26
Westview Dr	Shoreland Dr	Highland Rd	528	4	3	X					X	26
Westview Dr.	Shoreland Dr.	Highland Rd	528	7	2		X				X	26
Palmto St.	Lychee Rd.	Montana Av.	1584	9	3			X			X	26
Palmto St.	Lychee Rd	Montana Av	1584	8	3				X		X	26
Gulf Av.	South Tamiami Trail	Lake Shore Dr	1848	5	2	X					X	10
Gulf Av.	South Tamiami Trail	Lake Shore Dr	1848	8	5		X				X	10

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Lake Shore Dr	South Dr.	North Of Hibiscus St	1584	5	3			X		X	16	
Lake Shore Dr	South Dr.	North Of Hibiscus St.	1584	5	2				X	X	16	
Pine Ct	Hibiscus St.	Palmetto St	264	4	2			X		X	16	
Pine Ct	Hibiscus St.	Palmetto St	264	6	2				X	X	16	
Palmetto Street	Pine Ct	Lake Shore Dr.	528	3	1	X				X	13	
Palmetto Street	Pine Ct	Lake Shore Dr.	528	3	1		X			X	13	
Pine Av	Gulf Av.	Palmetto St.	264	0	0			X		X	10	
Pine Av	Gulf Av.	Palmetto St	264	7	3				X	X	10	
Myrtle Av	Pine St	Bayshore Dr	1056	6	3	X				X	26	
Myrtle Av	Pine St	Bayshore Dr.	1056	5	2		X			X	26	
Pine Street	Hills Rd.	Blackburn Rd.	560	0	0			X		X	26	
Pine Street	Hills Rd	Blackburn Rd.	560	6	3				X	X	26	
Charles Dr	Oak St.	South Tamiami Trail	792	0	0	X				X	26	
Charles Dr.	Oak St.	South Tamiami Trail	792	5	4		X			X	26	
Morgan Street	Blackburn Rd	Charles Dr.	264	0	0			X		X	26	
Morgan Street	Blackburn Rd.	Charles Dr	264	5	2				X	X	26	
Blackburn Rd.	South Tamiami Trail	Bayshore Dr	2112	6	4	X				X	26	
Blackburn Rd.	South Tamiami Trail	Bayshore Dr	2112	8	5		X			X	26	
Oak Street	Roberts Rd	Blackburn Rd.	1320	8	6			X		X	26	
Oak Street	Roberts Rd	Blackburn Rd	1320	7	4				X	X	26	
Citrus Dr	Pearl Av	Oak St	528	7	5	X				X	26	
Citrus Dr	Pearl Av.	Oak St.	528	7	4		X			X	26	
Lime Dr	Pearl Av.	Bayshore Rd	1320	8	4	X				X	26	
Lime Dr	Pearl Av.	Bayshore Rd	1320	7	4		X			X	26	
Hills Rd	Bayshore Rd	Old Trail	1584	8	5	X				X	26	
Hills Rd	Bayshore Rd	Old Trail	1584	6	4		X			X	26	
Lakeview Dr	South Tamiami Trail	Sunset Av.	1584	8	5	X				X	12	
Lakeview Dr	South Tamiami Trail	Sunset Av.	1584	6	4		X			X	12	
Lakeview Dr	Sunset Av	Twin Lakes Av	528	8	3	X				X	12	
Lakeview Dr.	Sunset Av	Twin Lakes Av.	528	7	3		X			X	12	
Twin Lakes Av	Lakeview Dr.	Myrtle Dr.	1320	0	0			X		X	12	
Twin Lakes Av	Lakeview Dr	Myrtle Dr	1320	5	4				X	X	12	
Sunrise Dr.	Twin Lakes Dr	Sunset Av.	528	8	5	X				X	12	
Sunrise Dr.	Twin Lakes Dr	Sunset Av	528	9	4		X			X	12	
Sunset Av.	Lakeview Dr.	Sunrise Dr	528	6	4			X		X	12	
Sunset Av	Lakeview Dr.	Sunrise Dr	528	6	4				X	X	12	

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDTH	SLOPE	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Sunset Av.	Lakeview Dr	Laurel Rd	528	7	4				X		X	12
Sunset Av.	Lakeview Dr	Laurel Rd	528	5	3				X		X	12
Gayle Av.	Lakeview Dr	Sunrise Dr	792	6	3				X		X	12
Gayle Av.	Lakeview Dr	Sunrise Dr	792	5	3				X		X	12
Laurel Rd.	Bayshore Rd	South Tamiami Trail	2640	7	3	X					X	26
Laurel Rd	Bayshore Rd	South Tamiami Trail	2640	8	3		X				X	26
Laurel Rd	RXR	Albee Farm Rd	5280	16	11	X					X	12
Laurel Rd.	RXR	Albee Farm Rd	5280	19	9		X				X	12
Laurel Rd.	Albee Farm Rd	Pinebrook Rd.	5280	19	9	X					X	12
Laurel Rd.	Albee Farm Rd.	Pinebrook Rd	5280	27	14		X				X	12
Bayshore Rd.	Laurel Rd.	Albee Rd	5280	6	4			X			X	26
Bayshore Rd.	Laurel Rd.	Albee Rd	5280	5	4				X		X	26
Shore Rd.	Laurel Rd.	Albee Rd	6072	8	5			X			X	26
Shore Rd.	Laurel Rd.	Albee Rd	6072	8	4				X		X	26
Channel Acres Rd	Shore Rd.	Dolphin Shores Cir	1056	5	3	X					X	26
Channel Acres Rd	Shore Rd	Dolphin Shores Cir	1056	4	3		X				X	26
Acacia Ln.	Channel Acres Rd	Channel Acres Rd	1056	5	3			X			X	26
Acacia Ln.	Channel Acres Rd	Channel Acres Rd	1056	5	0				X		X	26
Winfield Way	Channel Acres Rd	Cul - De - Sac	1584	4	2			X			X	26
Winfield Way	Channel Acres Rd	Cul - De - Sac	1584	4	2				X		X	26
Shore Tee Rd	Shore Tee Rd	Shore Rd	792	5	3	X					X	26
Shore Tee Rd	Shore Tee Rd	Shore Rd	792	6	3		X				X	26
Avenida De La Isla	South Tamiami Trail	Start Of Street North	1056	5	3	X					X	12
Avenida De La Isla	South Tamiami Trail	Start Of Street North	1056	5	3		X				X	12
Avenida Bahia	South Tamiami Trail	Start Of Street North	1056	6	3	X					X	12
Avenida Bahia	South Tamiami Trail	Start Of Street North	1056	5	3		X				X	12
Avenida La Palma	South Tamiami Trail	Address 200 North	528	6	3	X					X	12
Avenida La Palma	South Tamiami Trail	Address 200 North	528	8	4		X				X	12
Palmetto Rd. North	South Tamiami Trail	Lyons Bay Rd. North	1584	6	3	X					X	26
Palmetto Rd. North	South Tamiami Trail	Lyons Bay Rd. North	1584	8	4		X				X	26
Palmetto Rd.	Magnolia Av. North	Poinciana Rd	2376	8	4			X			X	26
Palmetto Rd.	Magnolia Av. North	Poinciana Rd	2376	8	4				X		X	26
Palmetto Rd.	Poinciana Rd.	Cocoanut Crescent	792	6	3			X			X	26
Palmetto Rd.	Poinciana Rd.	Cocoanut Crescent	792	6	4				X		X	26
Cocoanut Crescent	Lyons Bay Rd.	Palm Av	300	6	3	X					X	26
Cocoanut Crescent	Lyons Bay Rd.	Palm Av.	300	5	3		X				X	26

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Mission Valley Bv.	Laurel Rd.	Mackintosh Bv.	5280	16	5			X			X	12
Mission Valley Bv.	Laurel rd	Mackintosh Bv.	5280	16	5				X		X	12
Mackintosh Bv.	Mission Valley Bv.	Shire St	3168	8	4			X			X	12
Mackintosh Bv.	Mission Valley Bv.	Shire St	3168	8	4				X		X	12
Bayview Dr.	Laurel Rd.	Garland Av.	1320	11	2			X			X	12
Bayview Dr.	Laurel Rd	Garland Av	1320	7	3				X		X	12
Garland Av	Bayview Dr	Orange Av	528	10	5			X			X	12
Garland Av.	Bayview Dr	Orange Av	528	6	7				X		X	12
Orange Av.	Garland Av	Bayview Dr	792	5	3	X					X	12
Orange Av	Garland Av.	Bayview Dr.	792	5	3		X				X	12
Cocconut Av	Bayview Dr	Orange Av	528	5	3			X			X	12
Cocconut Av	Bayview Dr	Orange Av	528	4	3				X		X	12
Dona Way	Albee Farm Rd	Bonito Av.	1056	0	0	X					X	13
Dona Way	Albee Farm Rd	Bonito Av	1056	4	2		X				X	13
Dona Way	Bonito Av.	Portia St	792	6	3	X					X	13
Dona Way	Bonito Av.	Portia St	792	4	2		X				X	13
Dona Way	Portia St	West End Of Ravenna St	528	8	4	X					X	13
Dona Way	Portia St	West End Of Ravenna St	528	3	3		X				X	13
Marlin St	Albee Farm Rd	Cul - De - Sac	528	6	3	X					X	13
Marlin St	Albee Farm Rd.	Cul - De - Sac	528	6	4		X				X	13
Portia St	North End Of St	Dona Way	1320	5	4			X			X	13
Portia St	North End Of St	Dona Way	1320	6	3				X		X	13
Portia St	Dona Way	Lucille Av.	1056	5	3			X			X	13
Portia St	Dona Way	Lucille Av.	1056	6	2				X		X	13
Portia St	Lucille Av.	Florence St.	1056	5	3			X			X	13
Portia St	Lucille Av	Florence St	1056	8	4				X		X	13
Portia St	Florence St	Colonia Ln	1056	12	4			X			X	13
Portia St	Florence St.	Colonia Ln.	1056	7	2				X		X	13
Ravenna St	Dona Way	Portia St	528	5	3			X			X	13
Ravenna St	Dona Way	Portia St	528	8	4				X		X	13
Ravenna St	Dona Way	South Of Lucille Av	1056	6	3			X			X	13
Ravenna St	Dona Way	South Of Lucille Av.	1056	5	2				X		X	13
Ravenna St.	South Of Lucille Av.	Colonia Ln	2640	10	4			X			X	13
Ravenna St	South Of Lucille Av	Colonia Ln	2640	10	4				X		X	13
Jessica St.	Colonia Ln	Portia St	3696	6	3			X			X	13
Jessica St	Colonia Ln	Portia St	3696	6	4				X		X	13

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE NORTH DEPTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Hillcrest Dr.	Portia St.	Jessica St.	528	0	0	X				X	13
Hillcrest Dr.	Portia St.	Jessica St.	528	0	0		X			X	13
Hillcrest Dr.	Jessica St.	Start Of St.	528	5	4	X				X	13
Hillcrest Dr.	Jessica Dr.	Start Of St.	528	6	5		X			X	13
Lucille Av.	Portia St.	Ravenna St.	528	6	3	X				X	13
Lucille Av.	Portia St.	Ravenna St.	528	7	3		X			X	13
Lucille Av.	Ravenna St.	Start Of St.	528	6	4	X				X	13
Lucille Av.	Ravenna St.	Start Of St.	528	6	3		X			X	13
Aquila St.	North End Of St.	Florence St.	1320	0	0			X		X	13
Aquila St.	North End Of St.	Florence St.	1320	8	4			X		X	13
Florence St.	Albee Farm Rd.	Portia St.	1056	5	3	X				X	13
Florence St.	Albee Farm Rd.	Portia St.	1056	6	4		X			X	13
Florence St.	Portia St.	River Bv.	792	5	3	X				X	13
Florence St.	Portia St.	River Bv.	792	5	3		X			X	13
Florence St.	River Bv.	Marland Ct.	528	5	4	X				X	13
Florence St.	River Bv.	Marland Ct.	528	5	3		X			X	13
Florence St.	Marland Ct.	River View Dr.	528	6	2	X				X	13
Florence St.	Marland St.	River View Dr.	528	0	0		X			X	13
Sierra St.	Florence St.	North End Of St.	1320	6	3			X		X	13
Sierra St.	Florence St.	North End Of St.	1320	7	3			X		X	13
Verona St.	Florence St.	North End Of St.	1320	7	3			X		X	13
Verona St.	Florence St.	North End Of St.	1320	8	3			X		X	13
Adriatic St.	River Bv.	Aquila St.	1584	10	3	X				X	13
Adriatic St.	River Bv.	Aquila St.	1584	8	4		X			X	13
River Bv.	Lucille Av.	Florence St.	1320	10	3			X		X	13
River Bv.	Lucille Av.	Florence St.	1320	0	0			X		X	13
River Bv.	Florence St.	Colonia Ln.	1320	10	3			X		X	13
River Bv.	Florence St.	Colonia Ln.	1320	8	3			X		X	13
Padua Ct.	River Bv.	Pompano Ln.	1584	8	4	X				X	13
Padua Ct.	River Bv.	Pompano Ln.	1584	7	3		X			X	13
Trout Ln.	Padua Ct.	Cul - De - Sac	150	0	0			X		X	13
Trout Ln.	Padua Ct.	Cul - De - Sac	150	6	2			X		X	13
Bass Ln.	Padua Ct.	Cul - De - Sac	150	6	3			X		X	13
Flats Ln.	Padua Ct.	Cul - De - Sac	150	7	2			X		X	13
Loreto Ct.	River Bv.	End Of St. West	528	10	4	X				X	13
Loreto Ct.	River Bv.	End Of St. West	528	8	3		X			X	13

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
River View Dr.	Padua Ct	Florence St	1056	5	2			X			X	13
River View Dr.	Padua Ct	Florence St	1056	0	0				X		X	13
River View Dr.	Florence St	Al John St	528	8	2			X			X	13
River View Dr.	Florence St	Al John St	528	0	0				X		X	13
Al John St	River View Dr	End Of St	792	0	0	X					X	13
Al John St	River View Dr.	End Of St	792	8	3		X				X	13
Pompano Ln.	North End Of St	Coquina Ct	528	8	4			X			X	13
Pompano Ln.	North End Of St	Coquina Ct	528	8	4				X		X	13
Coquina Ct.	Pompano Ct	East End Of St	792	8	3	X					X	13
Coquina Ct.	Pompano Ct.	East End Of St.	792	10	2		X				X	13
Frances St.	East End Of St.	West End Of St.	792	5	3	X					X	13
Frances St.	East End Of St	West End Of St.	792	6	2		X				X	13
Colonia Ln.	Orange Grove Av	Albee Farm Rd.	1320	10	4	X					X	13
Colonia Ln.	Orange Grove Av.	Albee Farm Rd.	1320	0	0		X				X	13
Colonia Ln.	Albee Farm Rd.	Nippino Trail	4224	10	3	X					X	13
Colonia Ln.	Albee Farm Rd	Nippino Trail	4224	8	4		X				X	13
Orange Grove Av	Colonia Ln	Scotties Place	1848	10	6			X			X	13
Orange Grove Av.	Colonia Ln	Scotties Place	1848	11	3				X		X	13
Kenwood Av	Colonia Ln	Edmondson Rd	1320	8	3			X			X	13
Kenwood Av	Colonia Ln	Edmondson Rd	1320	9	4				X		X	13
Shadylawn Av.	Edmondson Rd	Colonia Ln.	1320	8	3			X			X	13
Shadylawn Av.	Edmondson Rd	Colonia Ln.	1320	7	3				X		X	13
Pinewood Av.	Colonia Ln	Edmondson Rd	1320	10	3			X			X	13
Pinewood Av.	Colonia Ln	Edmondson Rd	1320	8	4				X		X	13
Olive Av.	Colonia Ln	North End Of St	792	9	3			X			X	13
Olive Av.	Colonia Ln	North End Of St	792	8	4				X		X	13
Venetia St.	Albee Farm Rd	Orange Grove Av	1056	6	3	X					X	13
Venetia St.	Albee Farm Rd	Orange Grove Av	1056	7	3		X				X	13
Edmondson Rd.	Irene Av	Albee Farm Rd	2640	6	4			X			X	13
Edmondson Rd	Irene Av	Albee Farm Rd.	2640	10	3				X		X	13
Pearl Av.	Edmondson Rd	Kilpatrick Rd.	1320	11	4			X			X	13
Pearl Av.	Edmondson Rd.	Kilpatrick Rd.	1320	10	4				X		X	13
Ruby Av.	Kilpatrick Rd	Edmondson Rd.	1320	10	4			X			X	13
Ruby Av.	Kilpatrick Rd	Edmondson Rd	1320	10	4				X		X	13
Emerald Av.	Edmondson Rd	Kilpatrick Rd	1320	9	3			X			X	13
Emerald Av.	Edmondson Rd.	Kilpatrick Rd.	1320	11	4				X		X	13

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Irene Av.	Kilpatrick Rd.	Edmondson Rd	1320	4	2			X			X	13
Irene Av.	Kilpatrick Rd.	Edmondson Rd	1320	6	3				X		X	13
Robbins Rd.	Albee Farm Rd.	Old Albee Farm Rd.	1320	10	4	X					X	12
Robbins Rd.	Albee Farm Rd.	Old Albee Farm Rd	1320	6	4		X				X	12
Old Albee Farm Rd.	Robbins Rd.	Laurel Rd.	1848	11	4			X			X	12
Old Albee Farm Rd.	Robbins Rd.	Laurel Rd	1848	12	6				X		X	12
Sorrento Ranches Dr.	Old Albee Farm Rd.	Kilpatrick Rd	3960	10	3			X			X	12
Sorrento Ranches Dr.	Old Albee Farm Rd.	Kilpatrick Rd.	3960	6	3				X		X	12
Sandpiper Ln.	Robbins Rd.	North End Of Street	1056	8	3			X			X	12
Sandpiper Ln.	Robbins Rd.	North End Of Street	1056	5	5				X		X	12
Ilesia Dr.	Sandpiper Ln	Cul - De - Sac	528	5	3	X					X	12
Ilesia Dr.	Sandpiper Ln	Cul - De - Sac	528	6	3		X				X	12
Coral Dr.	Sandpiper Ln.	Cul - De - Sac	528	5	4	X					X	12
Coral Dr.	Sandpiper Ln.	Cul - De - Sac	528	5	4		X				X	12
Pine St.	Albee Farm Rd	East End Of Street	1056	4	3	X					X	12
Pine St.	Albee Farm Rd.	East End Of Street	1056	7	3		X				X	12
Maple St.	Albee Farm Rd.	East End Of Street	1056	6	3	X					X	12
Maple St.	Albee Farm Rd.	East End Of Street	1056	5	3		X				X	12
Pecan St.	Albee Farm Rd.	East End Of Street	1056	10	3	X					X	12
Pecan St.	Albee Farm Rd.	East End Of Street	1056	7	3		X				X	12
Kilpatrick Rd.	Albee Farm Rd.	R&F Ranch Rd.	5280	8	5	X					X	12
Kilpatrick Rd.	Albee Farm Rd.	R&F Ranch Rd.	5280	14	7		X				X	12
Church St.	Colonia Ln	South To Cul - De - Sac	792	5	0			X			X	13
Church St.	Colonia Ln.	South To Cul - De - Sac	792	8	3				X		X	13
Buena Vista Dr	Colonia Ln	Ceil Dr	1848	10	3			X			X	13
Buena Vista Dr	Colonia Ln	Ceil Dr.	1848	10	4				X		X	13
Ceil Dr.	Buena Vista Dr	Ceil Cl.	792	5	3			X			X	13
Ceil Dr.	Buena Vista Dr	Ceil Cl.	792	5	4				X		X	13
Ceil Cl.	Ceil St	Ceil St	792	5	3			X			X	13
Ceil Cl.	Ceil St	Ceil St	792	5	4				X		X	13
Pocano Trail	Colonia Ln	South Tamiami Trail	1320	6	0	X					X	13
Pocano Trail	Colonia Ln	South Tamiami Trail	1320	7	3		X				X	13
Auburn Rd.	Venice Av	Border Rd.	9184	13	8			X			X	13
Auburn Rd.	Venice Av	Border Rd.	9184	18	6				X		X	13
Kennedy Dr.	Auburn Rd	East End Of Street	1056	13	5	X					X	13
Kennedy Dr.	Auburn Rd.	East End Of Street	1056	10	4		X				X	13

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Border Rd.	Havana Rd	Jackson Rd.	2640	12	4			X			X	21
Border Rd.	Havana Rd.	Jackson Rd.	2640	13	4				X		X	21
Green Cove Rd.	Venice Av.	End At Canal 27-349	1848	13	6			X			X	21
Green Cove Rd.	Venice Av.	End At Canal 27-349	1848	7	4				X		X	21
Havana Rd.	Venice Av.	Bonita Rd	3168	13	6			X			X	21
Havana Rd.	Venice Av.	Bonita Rd	3168	8	3				X		X	21
Havana Rd.	Venice Av.	Gladesview Dr.	1056	13	6			X			X	21
Havana Rd.	Venice Av.	Gladesview Dr.	1056	6	3				X		X	21
Havana Rd.	North Of Canal 27-349	Frederick Rd.	1056	10	6			X			X	21
Havana Rd.	North Of Canal 27-349	Frederick Rd.	1056	15	6				X		X	21
Snyder Dr.	Jacaranda Bv	Hanchey Bv	2640	12	5	X					X	13
Snyder Dr.	Jacaranda Bv	Hanchey Bv	2640	14	5		X				X	13
Inverness Rd.	Venice Av.	North End Of Pavement	1584	21	6			X			X	21
Inverness Rd.	Venice Av.	North End Of Pavement	1584	0	0				X		X	21
Jackson Rd.	Venice Av.	Frederick Dr	5544	18	6			X			X	21
Jackson Rd.	Venice Av.	Frederick Dr	5544	13	4				X		X	21
Jackson Rd.	Frederick Dr	Border Rd	2640	13	6			X			X	21
Jackson Rd.	Frederick Dr	Border Rd.	2640	12	5				X		X	21
Jackson Rd.	Venice Av.	Venice Landfill	2112	13	12			X			X	21
Jackson Rd.	Venice Av.	Venice Landfill	2112	5	4				X		X	21
Keystone Rd.	Venice Av.	Hardee Dr.	1848	15	8			X			X	21
Keystone Rd.	Venice Av.	Hardee Dr.	1848	5	4				X		X	21
Bonita Rd.	Havana Rd	East Of #3440 Bonita Rd	4752	15	8	X					X	21
Bonita Rd.	Havana Rd.	East Of #3440 Bonita Rd	4752	4	4		X				X	21
Frederick Dr.	Jackson Rd	Havana Rd	2640	16	6	X					X	21
Frederick Dr.	Jackson Rd	Havana Rd	2640	13	6		X				X	21
Ewing Dr.	Jackson Rd.	East Of Havana Rd.	2376	13	5	X					X	21
Ewing Dr.	Jackson Rd	East Of Havana Rd	2376	7	4		X				X	21
Venice Av.	River Rd	Jacaranda Bv	12672	15	8	X					X	21
Venice Av.	River Rd	Jacaranda Bv	12672	16	7		X				X	21
Venice Av.	Jacaranda Bv	City Limits - Pinebrook Rd	10560	18	5	X					X	13
Venice Av.	Jacaranda Bv	City Limits - Pinebrook Rd	10560	14	5		X				X	13
Gladesview Dr	Havana Rd.	End Of Pavement West	1320	13	8	X					X	13
Gladesview Dr.	Havana Rd.	End Of Pavement West	1320	0	0		X				X	13
Clermont Rd.	Venice Av	End Of Pavement South	1320	14	6			X			X	13
Clermont Rd.	Venice Av	End Of Pavement South	1320	0	0				X		X	13

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Jacaranda Bv	Venice Av	Center Rd	7920	13	4			X			N	13
Jacaranda Bv	Venice Av	Center Rd	7920	13	4				X		N	13
Jacaranda Bv	South Tamiami Trail	S R 776	3168	28	4	X					N	13
Jacaranda Bv	South Tamiami Trail	S R 776	3168	28	4		X				N	15
Center Rd	River Rd	East Of Jacaranda Bv	18480	8	5	X					X	14
Center Rd	River Rd	East Of Jacaranda Bv	18480	16	5		X				X	14
Center Rd	East Of Jacaranda Bv	South Tamiami Tr	11088	11	5	X					X	14
Center Rd	East Of Jacaranda Bv	South Tamiami Tr	11088	14	5		X				X	14
Banyan Dr	Center Rd	Shamrock Bv	1848	6	3			X			N	14
Banyan Dr	Center Rd	Shamrock Bv	1848	6	4				X		X	14
Banyan Dr	Shamrock Bv	Briarwood Rd	2112	0	0			X			X	14
Banyan Dr	Shamrock Bv	Briarwood Rd	2112	5	2				X		N	14
Glen Oak Rd	Banyan Dr	East Shade Dr	4488	6	3	X					X	14
Glen Oak Rd	Banyan Dr	East Shade Dr	4488	6	2		X				X	14
Redwood Rd	Banyan Dr	East Shade Dr	4488	6	3	X					X	14
Redwood Rd	Banyan Dr	East Shade Dr	4488	7	4		X				X	14
Larchwood Dr	Center Rd	Shamrock Bv	1584	8	3			X			N	14
Larchwood Dr	Center Rd	Shamrock Dr	1584	0	0				X		X	14
Peppertree Rd	Center Rd	Redwood Rd	528	6	3			X			X	14
Peppertree Rd	Center Rd	Redwood Rd	528	8	3				X		X	14
East Shade Dr	Center Rd	Redwood Rd	528	0	0			X			N	14
East Shade Dr	Center Rd	Redwood Rd	528	11	6				X		N	14
Gardenia Rd	Banyan Dr	Pomelo Dr	2376	10	3	X					X	14
Gardenia Rd	Banyan Dr	Pomelo Dr	2376	8	3		X				X	14
Hillview Rd	Banyan Dr	Pomelo Dr	2376	6	2	X					X	14
Hillview Rd	Banyan Dr	Pomelo Dr	2376	5	2		X				X	14
Sea Grape Rd	Banyan Dr	Pomelo Dr	2112	6	3	X					X	14
Sea Grape Rd	Banyan Dr	Pomelo Dr	2112	5	3		X				N	14
Pine Tree Rd	Pomelo Dr	Banyan Dr	1848	0	0	X					X	14
Pine Tree Rd	Pomelo Dr	Banyan Dr	1848	11	6		X				X	14
Pomelo Dr	Shamrock Bv	Briarwood Rd	1848	11	6			X			N	14
Pomelo Dr	Shamrock Bv	Briarwood Rd	1848	7	6				X		N	14
Briarwood Rd	Clover Rd	Pomelo Dr	1320	6	3	X					X	15
Briarwood Rd	Clover Rd	Pomelo Dr	1320	6	4		X				X	15
Briarwood Rd	Pomelo Dr	Banyan Dr	1584	0	0	X					X	15
Briarwood Rd	Pomelo Dr	Banyan Dr	1584	4	2		X				X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Valencia Rd.	Brianwood Rd.	Baffin Dr.	2640	11	7			X		X	15	
Valencia Rd.	Brianwood Rd.	Baffin Dr.	2640	9	6				X	X	15	
Valencia Rd.	Baffin Dr.	Nightingale Rd.	792	12	7			X		X	15	
Valencia Rd.	Baffin Dr.	Nightingale Rd.	792	10	6				X	X	15	
Fiesta Dr.	Brianwood Rd.	Seminole Dr.	1584	10	6			X		X	15	
Fiesta Dr.	Brianwood Rd.	Seminole Dr.	1584	11	7				X	X	15	
Fiesta Dr.	Seminole Dr.	Baffin Dr.	1056	9	4			X		X	15	
Fiesta Dr.	Seminole Dr.	Baffin Dr.	1056	9	4				X	X	15	
Nocturne Rd.	Darwin Rd.	Trojan Rd.	1848	11	5			X		X	15	
Nocturne Rd.	Darwin Rd.	Trojan Rd.	1848	8	5				X	X	15	
Trojan Rd.	Nocturne Rd.	Nightingale Rd.	792	6	3	X				X	15	
Trojan Rd.	Nocturne Rd.	Nightingale Rd.	792	5	2		X			X	15	
Oneida Rd.	South Tamiami Trail	Durian Rd.	1320	10	6	X				X	15	
Oneida Rd.	South Tamiami Trail	Durian Rd.	1320	7	4		X			X	15	
Rigel Rd.	Oneida Rd.	Seminole Dr.	2112	8	4	X		X		X	15	
Rigel Rd.	Oneida Rd.	Seminole Dr.	2112	8	5		X		X	X	15	
Durian Rd.	South Tamiami Trail	Rigel Rd.	1320	8	4	X				X	15	
Durian Rd.	South Tamiami Trail	Rigel Rd.	1320	9	5		X			X	15	
Englewood Rd. South	End Of R/W N. Of Oneida	South Of Hermes Rd.	3960	10	4			X		X	15	
Englewood Rd. South	End of R/W No. of Oneida	South of Hermes Rd.	3960	10	3				X	X	15	
Yucca Rd.	Oneida Rd.	Durian Rd.	792	7	3			X		X	15	
Yucca Rd.	Oneida Rd.	Durian Rd.	792	6	3				X	X	15	
Morningside Dr.	Old Englewood Rd.	Valencia Rd.	3696	8	3			X		X	15	
Morningside Dr.	Old Englewood Rd.	Valencia Rd.	3696	8	5				X	X	15	
Tanager Rd.	Old Englewood Rd.	Fiesta Dr.	4224	7	5	X				X	15	
Tanager Rd.	Old Englewood Rd.	Fiesta Dr.	4224	8	4		X			X	15	
Seminole Dr.	Fiesta Dr.	Siesta Dr.	5280	8	4	X				X	15	
Seminole Dr.	Fiesta Dr.	Siesta Dr.	5280	10	5		X			X	15	
Baffin Dr.	Shamrock Dr.	South Tamiami Trail	5280	6	3	X				X	15	
Baffin Dr.	Shamrock Dr.	South Tamiami Trail	5280	10	4		X			X	15	
Baffin Dr.	South Tamiami Trail	Valencia Rd.	2640	8	4	X				X	15	
Baffin Dr.	South Tamiami Trail	Valencia Rd.	2640	8	5		X			X	15	
Baffin Dr.	Valencia Rd.	End Of East Nocturne Rd.	1584	8	3	X				X	15	
Baffin Dr.	Valencia Rd.	End Of East Nocturne Rd.	1584	13	6		X			X	15	
Nightingale Rd.	Nocturne Rd.	Trojan Rd.	528	6	4	X				X	15	
Nightingale Rd.	Nocturne Rd.	Trojan Rd.	528	5	4		X			X	15	

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Nightingale Rd	Trojan Rd.	Geneva Rd	2376	6	4	X					X	15
Nightingale Rd.	Trojan Rd.	Geneva Rd	2376	5	3		X				X	15
Shasta Rd.	Fiesta Dr.	Carmine Rd	792	8	3	X					X	15
Shasta Rd.	Fiesta Dr	Carmine Rd.	792	8	5		X				X	15
Carmine Rd.	Rosedale Rd.	Tanager Rd	792	7	4			X			X	15
Carmine Rd.	Rosedale Rd.	Tanager Rd	792	8	4				X		X	15
Rosedale Rd.	Fiesta Dr.	Morningside Rd	1584	8	5			X			X	15
Rosedale Rd	Fiesta Dr.	Morningside Rd.	1584	10	4				X		X	15
Rosedale Rd.	Fiesta Dr.	East Of Mohegan Rd.	528	7	3			X			X	15
Rosedale Rd.	Fiesta Dr.	East Of Mohegan Rd.	528	8	3				X		X	15
Concord Rd.	Seminole Dr.	Baffin Dr	1320	9	4			X			X	15
Concord Rd.	Seminole Dr.	Baffin Dr.	1320	8	5				X		X	15
Odessa Rd.	Seminole Dr	Baffin Dr.	1320	7	3			X			X	15
Odessa Rd.	Seminole Dr.	Baffin Dr	1320	6	4				X		X	15
Argyle Rd.	Seminole Dr.	Baffin Dr.	1320	6	4			X			X	15
Argyle Rd.	Seminole Dr	Baffin Dr	1320	5	3				X		X	15
Myakka Rd.	Seminole Dr.	Beverly Rd	528	7	3			X			X	15
Myakka Rd.	Seminole Dr.	Beverly Rd	528	6	4				X		X	15
Beverly Rd.	Argyle Rd	Fiesta Dr	3168	10	3			X			X	15
Beverly Rd	Argyle Rd	Fiesta Dr	3168	8	4				X		X	15
Bradenton Rd	Fiesta Dr.	Valencia Rd	1056	8	4			X			X	15
Bradenton Rd.	Fiesta Dr.	Valencia Rd	1056	6	4				X		X	15
Bradenton Rd.	Valencia Rd	Argyle Rd.	1848	8	5			X			X	15
Bradenton Rd	Valencia Rd	Argyle Rd.	1848	7	4				X		X	15
Crocus Rd.	Dagon Rd.	Geneva Rd	792	7	3	X					X	15
Crocus Rd.	Dagon Rd.	Geneva Rd	792	8	4		X				X	15
Geneva Rd	Crocus Rd.	Baffin Dr	2376	10	5			X			X	15
Geneva Rd	Crocus Rd	Baffin Dr	2376	10	4				X		X	15
Geneva Rd	Baffin Dr.	South Of Nightingale Rd.	792	10	5			X			X	15
Geneva Rd	Baffin Dr	South Of Nightingale Rd	792	10	6				X		X	15
Hermes Rd.	Old Englewood Rd	Geneva Rd	792	8	6	X					X	15
Hermes Rd.	Old Englewood Rd.	Geneva Rd	792	8	4		X				X	15
Argus Rd.	Old Englewood Rd	Sapphire Rd	2640	8	5	X					X	15
Argus Rd.	Old Englewood Rd	Sapphire Rd	2640	7	3		X				X	15
Altair Rd.	Sapphire Rd	Old Englewood Rd	2640	7	4	X					X	15
Altair Rd.	Sapphire Rd.	Old Englewood Rd.	2640	7	4		X				X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Sapphire Rd.	Morningside Rd	Tanager Rd	528	8	5			X			N	15
Sapphire Rd.	Morningside Rd	Tanager Rd.	528	8	4				X		N	15
Serpula Rd.	Tanager Rd.	Morningside Rd	528	10	7			X			N	15
Serpula Rd.	Tanager Rd.	Morningside Rd.	528	7	3				X		N	15
Osage Rd.	Mohegan Rd.	Rosedale Rd.	528	7	4			X			N	15
Osage Rd.	Mohegan Rd.	Rosedale Rd.	528	8	3				X		N	15
Mohegan Rd.	Fiesta Dr.	Rosedale Rd.	1320	7	4	X					N	15
Mohegan Rd.	Fiesta Dr.	Rosedale Rd.	1320	6	3		X				N	15
Darwin Rd.	Tem Rd	Nocturne Rd.	2640	7	4	X					N	15
Darwin Rd.	Tem Rd	Nocturne Rd.	2640	9	4		X				N	15
Lobelia Rd	Darwin Rd	Baffin Dr	792	7	4			X			N	15
Lobelia Rd	Darwin Rd	Baffin Dr	792	7	5				X		N	15
Lobelia Rd.	Baffin Dr.	Nightingale Rd	792	8	4			X			N	15
Lobelia Rd.	Baffin Dr.	Nightingale Rd	792	7	3				X		N	15
Juno Rd.	Nightingale Rd.	Baffin Dr	792	7	3			X			N	15
Juno Rd.	Nightingale Rd	Baffin Dr.	792	6	4				X		N	15
Taplow Rd	Juno Rd	Lobelia Rd	792	6	4	X					N	15
Taplow Rd	Juno Rd.	Lobelia Rd.	792	7	3		X				N	15
Juno Rd.	Nightingale Rd.	Baffin Dr	792	7	3			X			N	15
Juno Rd.	Nightingale Rd	Baffin Dr	792	6	4				X		N	15
Taplow Rd	Juno Rd	Lobelia Rd	792	6	4	X					N	15
Taplow Rd.	Juno Rd	Lobelia Rd.	792	7	3		X				N	15
Constance Rd.	Fiesta Dr.	Valencia Rd	1056	8	4	X					N	15
Constance Rd.	Fiesta Dr.	Valencia Rd.	1056	7	3		X				N	15
Constance Rd.	Valencia Rd	Geneva Rd	1320	8	4	X					N	15
Constance Rd.	Valencia Rd.	Geneva Rd	1320	7	3		X				N	15
Tem Rd.	Constance Rd	Seminole Dr	528	5	3			X			N	15
Tem Rd.	Constance Rd.	Seminole Dr.	528	6	4				X		N	15
Hercules Rd	Baffin Dr	Nightingale Rd	792	5	3			X			N	15
Hercules Rd.	Baffin Dr.	Nightingale Rd.	792	7	3				X		N	15
Gallot Rd	Nightingale Rd	Baffin Dr	792	7	4			X			N	15
Gallot Rd.	Nightingale Rd.	Baffin Dr.	792	6	3				X		N	15
Fallow Rd.	Baffin Dr.	Nightingale Rd.	792	5	3			X			N	15
Fallow Rd.	Baffin Dr.	Nightingale Rd.	792	7	3				X		N	15
Eider Rd.	Geneva Rd.	Fallow Rd	528	7	4	X					N	15
Eider Rd.	Geneva Rd.	Fallow Rd	528	6	3		X				N	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Ginger Rd.	Gentian Rd.	Wisteria Rd.	1584	5	3	X				N		14
Ginger Rd.	Gentian Rd.	Wisteria Rd.	1584	5	4		X			N		14
Hawthorne Rd.	Rutland Rd.	Faun Rd.	528	6	3			X		N		14
Hawthorne Rd.	Rutland Rd.	Faun Rd.	528	5	3				X	N		14
Hawthorne Rd.	Faun Rd.	Ginger Rd.	528	6	3			X		N		14
Hawthorne Rd.	Faun Rd.	Ginger Rd.	528	5	3				X	N		14
Redfern Rd.	Rutland Rd.	Ginger Rd.	1056	5	3			X		N		14
Redfern Rd.	Rutland Rd.	Ginger Rd.	1056	5	4				X	N		14
Faun Rd.	Hawthorne Rd.	Rutland Rd.	1056	6	3			X		N		14
Faun Rd.	Hawthorne Rd.	Rutland Rd.	1056	5	3				X	N		14
Faun Rd.	Rutland Rd.	Scenic Dr.	1056	6	3			X		N		14
Faun Rd.	Rutland Rd.	Scenic Dr.	1056	5	3				X	N		14
Rutland Rd.	Faun Rd.	South Tamiami Trail	1056	8	3	X				N		14
Rutland Rd.	Faun Rd.	South Tamiami Trail	1056	8	4		X			N		14
Maple Rd.	Rutland Rd.	Faun Rd.	528	5	4			X		N		14
Maple Rd.	Rutland Rd.	Faun Rd.	528	6	3				X	N		14
Scenic Dr.	Faun Rd.	Shamrock Dr.	2886	6	3			X		N		14
Scenic Dr.	Faun Rd.	Shamrock Dr.	2886	6	4				X	N		14
Gentian Rd.	Ginger Rd.	Shamrock Dr.	528	5	4			X		N		14
Gentian Rd.	Ginger Rd.	Shamrock Dr.	528	6	3				X	N		14
Gentian Rd.	Shamrock Dr.	Seminole Dr.	3696	6	3			X		N		15
Gentian Rd.	Shamrock Dr.	Seminole Dr.	3696	6	4				X	N		15
Avalon Rd.	Gentian Rd.	Wisteria Rd.	1320	5	3	X				N		15
Avalon Rd.	Gentian Rd.	Wisteria Rd.	1320	8	3		X			N		15
Mary Rd.	Avalon Rd.	Wisteria Rd.	528	5	3	X				N		15
Mary Rd.	Avalon Rd.	Wisteria Rd.	528	6	4		X			N		15
Wisteria Rd.	Gentian Rd.	Shamrock Dr.	1056	6	3	X				N		15
Wisteria Rd.	Gentian Rd.	Shamrock Dr.	1056	5	4		X			N		15
Wisteria Rd.	Ginger Rd.	Shamrock Dr.	1056	6	3			X		N		15
Wisteria Rd.	Ginger Rd.	Shamrock Dr.	1056	5	3				X	N		15
Dragon Rd.	Logan Rd.	Gentian Rd.	1056	5	3	X				N		15
Dragon Rd.	Logan Rd.	Gentian Rd.	1056	6	3		X			N		15
Auster Rd.	Logan Rd.	Gentian Rd.	1056	9	4	X				N		15
Auster Rd.	Logan Rd.	Gentian Rd.	1056	8	3		X			N		15
Zephyr Rd.	Gentian Rd.	Siesta Dr.	1848	6	3	X				N		15
Zephyr Rd.	Gentian Rd.	Siesta Dr.	1848	7	5		X			N		15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Mallow Rd.	Zephyr Rd.	Bahama Rd	792	6	3			X			X	15
Mallow Rd.	Zephyr Rd	Bahama Rd	792	5	3				X		X	15
Flower Rd.	Zephyr Rd	Shamrock Dr	1320	7	3			X			X	15
Flower Rd.	Zephyr Rd	Shamrock Dr	1320	7	3				X		X	15
Dawn Rd.	Zephyr Rd	Flower Rd	792	7	4			X			X	15
Dawn Rd	Zephyr Rd	Flower Rd	792	8	3				X		X	15
Siesta Dr.	Zephyr Rd	Sunset Beach Dr	264	0	0			X			X	15
Siesta Dr.	Zephyr Rd	Sunset Beach Dr	264	0	0				X		X	15
Siesta Dr.	Sunset Beach Dr	Queens Rd	1848	9	5			X			X	15
Siesta Dr.	Sunset Beach Dr	Queens Rd	1848	9	3				X		X	15
Siesta Dr.	Queens Rd	Baffin Dr	3696	8	4			X			X	15
Siesta Dr.	Queens Rd.	Baffin Dr	3696	9	3				X		X	15
Sunset Beach Dr	South Tamiami Trail	Siesta Dr	2112	6	3			X			X	15
Sunset Beach Dr.	South Tamiami Trail	Siesta Dr.	2112	8	3				X		X	15
Sunset Beach Dr.	Siesta Dr.	Shamrock Dr	3696	8	3			X			X	15
Sunset Beach Dr	Siesta Dr	Shamrock Dr	3696	6	3				X		X	15
Cross Rd.	Shamrock Dr	Siesta Dr	528	7	2	X					X	15
Cross Rd.	Shamrock Dr	Siesta Dr	528	0	0		X				X	15
Arrowhead Rd.	Mohawk Rd - Siesta Dr	Siesta Dr	2112	10	3			X			X	15
Arrowhead Rd.	Mohawk Rd - Siesta Dr	Siesta Dr	2112	10	4				X		X	15
Chestnut Rd	Siesta Dr.	Arrowhead Rd	792	9	4	X					X	15
Chestnut Rd	Siesta Dr.	Arrowhead Rd	792	7	4		X				X	15
Dogwood Dr.	Chestnut Rd.	Arrowhead Rd.	1056	0	0			X			X	15
Dogwood Dr.	Chestnut Rd.	Arrowhead Rd.	1056	10	3				X		X	15
Queen Rd.	Siesta Dr.	Shamrock Dr	3696	6	3			X			X	15
Queen Rd	Siesta Dr	Shamrock Dr	3696	8	4				X		X	15
Piedmont Rd	Siesta Dr	Secor Rd	3904	7	3			X			X	15
Piedmont Rd	Siesta Dr.	Secor Rd.	3904	8	3				X		X	15
Piedmont Rd	Secor Rd	Shamrock Dr	1056	6	3			X			X	15
Piedmont Rd.	Secor Rd.	Shamrock Dr	1056	5	4				X		X	15
Olympia Rd	Shamrock Dr.	Secor Rd	792	7	4			X			X	15
Olympia Rd.	Shamrock Dr	Secor Rd	792	6	3				X		X	15
Olympia Rd	Secor Rd.	Siesta Dr	2640	8	3			X			X	15
Olympia Rd.	Secor Rd	Siesta Dr	2640	9	4				X		X	15
Nantucket Rd	Siesta Dr	Shamrock Dr	3696	8	4			X			X	15
Nantucket Rd.	(Siesta Dr.	Shamrock Dr	3696	8	3				X		X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Nantucket Rd.	Shamrock Dr.	Coleman Rd.	264	6	3			X		N		15
Nantucket Rd.	Shamrock Dr.	Coleman Rd.	264	7	4				X	N		15
Mohawk Rd.	Shamrock Dr.	Arrowhead Rd.-Siesta Dr.	3696	6	3			X		N		15
Mohawk Rd.	Shamrock Dr.	Arrowhead Rd.-Siesta Dr.	3696	6	4				X	N		15
Leeward Rd.	Siesta Dr.	Shamrock Dr.	3696	8	6			X		N		15
Leeward Rd.	Siesta Dr.	Shamrock Dr.	3696	7	3				X	N		15
Kimball Rd.	Coleman Rd.	Siesta Dr.	4224	8	3			X		N		15
Kimball Rd.	Coleman Rd.	Siesta Dr.	4224	8	3				X	N		15
Jamaica Rd.	Siesta Dr.	Shamrock Dr.	3696	6	3			X		N		15
Jamaica Rd.	Siesta Dr.	Shamrock Dr.	3696	9	4				X	N		15
Indus Rd.	Shamrock Dr.	Siesta Dr.	3696		3			X		N		15
Indus Rd.	Shamrock Dr.	Siesta Dr.	3696	6	4				X	N		15
Clematis Rd.	Siesta Dr.	Tundra Rd.	792	8	3			X		N		15
Clematis Rd.	Siesta Dr.	Tundra Rd.	792	7	3				X	N		15
Clematis Rd.	Tundra Rd.	Pine Rd.	1056	6	3			X		N		15
Clematis Rd.	Tundra Rd.	Pine Rd.	1056	6	2				X	N		15
Clematis Rd.	Pine Rd.	Fundy Rd.-Sterling Rd.	264	6	3			X		N		15
Clematis Rd.	Pine Rd.	Fundy Rd.-Sterling Rd.	264	0	0				X	N		15
Fundy Rd.	Sterling Rd.	Shamrock Dr.	2112	7	4			X		N		15
Fundy Rd.	Sterling Rd.	Shamrock Dr.	2112	7	3				X	N		15
Fundy Rd.	Shamrock Dr.	Yacht Club Dr.	1056	8	4			X		N		15
Fundy Rd.	Shamrock Dr.	Yacht Club Dr.	1056	6	4				X	N		15
Mobile Rd.	Siesta Dr.	Tundra Rd.	550	6	3			X		N		15
Mobile Rd.	Siesta Dr.	Tundra Rd.	550	5	3				X	N		15
Tundra Rd.	Indus Rd.	Roanoke Rd.	792	6	3	N				N		15
Tundra Rd.	Indus Rd.	Roanoke Rd.	792	5	3		X			N		15
Roanoke Rd.	Tundra Rd.	Siesta Dr.	792	6	3			X		N		15
Roanoke Rd.	Tundra Rd.	Siesta Dr.	792	7	3				X	N		15
Everest Rd.	Siesta Dr.	Sterling Rd.	1584	5	3			X		N		15
Everest Rd.	Siesta Dr.	Sterling Rd.	1584	6	3				X	N		15
Everest Rd.	Sterling Rd.	Secor Rd.	1056	6	3			X		N		15
Everest Rd.	Sterling Rd.	Secor Rd.	1056	6	3				X	N		15
Everest Rd.	Secor Rd.	Shamrock Dr.	1056	6	3			X		N		15
Everest Rd.	Secor Rd.	Shamrock Dr.	1056	5	2				X	N		15
Everest Rd.	Shamrock Dr.	Yacht Club Dr.	1320	0	0			X		N		15
Everest Rd.	Shamrock Dr.	Yacht Club Dr.	1320	2	3				X	N		15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Devon Rd.	Yacht Club Dr	Shamrock Dr	1056	5	2				X		X	15
Devon Rd.	Yacht Club Dr	Shamrock Dr	1056	7	3				X		X	15
Devon Rd.	Shamrock Dr	Siesta Dr	3696	8	3				X		X	15
Devon Rd.	Shamrock Dr	Siesta Dr	3696	8	2				X		X	15
Cumberland Rd.	Siesta Dr	Secor Rd	2376	6	4				X		X	15
Cumberland Rd.	Siesta Dr	Secor Rd	2376	7	3				X		X	15
Cumberland Rd.	Secor Rd	Shamrock Dr	792	8	3				X		X	15
Cumberland Rd.	Secor Rd	Shamrock Dr	792	7	4				X		X	15
Cumberland Rd.	Shamrock Dr	Yacht Club Dr	792	7	4				X		X	15
Cumberland Rd.	Shamrock Dr	Yacht Club Dr	792	6	3				X		X	15
Secor Rd.	Linden Rd.	Sunset Rd	4752	8	4	X					X	15
Secor Rd.	Linden Rd.	Sunset Rd	4752	8	4			X			X	15
Redstart Rd.	Shamrock Dr	Onole Rd	1584	6	4	X					X	15
Redstart Rd.	Shamrock Dr	Onole Rd	1584	7	3			X			X	15
Onole Rd.	Queen Rd	Shamrock Dr	550	6	3				X		X	15
Onole Rd.	Queen Rd	Shamrock Dr	550	5	4				X		X	15
Ringtail Rd	Redstart Rd	Shamrock Dr	2112	6	3				X		X	15
Ringtail Rd	Redstart Rd	Shamrock Dr	2112	5	3				X		X	15
Sussex Rd.	Shamrock Dr	Redstart Rd	1584	9	3	X					X	15
Sussex Rd.	Shamrock Dr	Redstart Rd	1584	8	4			X			X	15
Pinamous Rd	Redstart Rd	Shamrock Dr	792	6	3				X		X	15
Pinamous Rd	Redstart Rd	Shamrock Dr	792	5	3				X		X	15
Ocala Rd.	Shamrock Dr	North Of Columbine Rd	1056	8	4				X		X	26
Ocala Rd.	Shamrock Dr	North Of Columbine Rd	1056	8	3				X		X	26
Columbine Rd.	Ocala Rd	Telford Dr	1056	7	3	X					X	26
Columbine Rd.	Ocala Rd.	Telford Dr	1056	8	3			X			X	26
Telford Dr.	Columbine Rd	Shamrock Dr	150	6	3				X		X	26
Telford Dr.	Columbine Rd	Shamrock Dr	150	5	3				X		X	26
Primrose Rd.	Columbine Rd	Ocala Rd	1056	8	3	X					X	26
Primrose Rd	Columbine Rd	Ocala Rd	1056	7	3			X			X	26
Ruby Rd.	Ocala Rd	Primrose Rd	528	6	3	X					X	26
Ruby Rd.	Ocala Rd.	Primrose Rd	528	5	4			X			X	26
Sterling Rd.	Start South Of Linden Rd	Ringtail Rd	4752	10	4				X		X	15
Sterling Rd	Start South Of Linden Rd	Ringtail Rd	4752	8	6				X		X	15
Graham Rd	Sterling Rd	Secor Rd	1056	0	0	X					X	15
Graham Rd	Sterling Rd	Secor Rd	1056	8	3			X			X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Graham Rd	Secor Rd	Shamrock Dr.	1056	8	4	X					X	15
Graham Rd	Secor Rd	Shamrock Dr.	1056	6	3		X				X	15
Graham Rd	Shamrock Dr.	Yacht Club Dr.	1056	3	2	X					X	15
Graham Rd	Shamrock Dr.	Yacht Club Dr.	1056	4	2		X				X	15
Hudson Rd	Coleman Rd	Graham Rd.	528	6	3	X					X	15
Hudson Rd	Coleman Rd	Graham Rd	528	7	4		X				X	15
Hudson Rd.	Coleman Rd	Sterling Rd	2300	8	3	X					X	15
Hudson Rd	Coleman Rd	Sterling Rd.	2300	9	4		X				X	15
Acadia Rd.	Dunbar Rd	Secor Rd	1584	7	4			X			X	15
Acadia Rd	Dunbar Rd	Secor Rd	1584	7	3				X		X	15
Acadia Rd.	Secor Rd	Shamrock Dr.	1056	8	3			X			X	15
Acadia Rd	Secor Rd	Shamrock Dr.	1056	7	4				X		X	15
Acadia Rd.	Shamrock Dr	Start Of Street	528	6	3			X			X	15
Acadia Rd.	Shamrock Dr	Start Of Street	528	5	2				X		X	15
Linden Rd.	Shamrock Dr	Strombus Rd.	1056	10	4			X			X	15
Linden Rd	Shamrock Dr	Strombus Rd	1056	9	5				X		X	15
Linden Rd.	Shamrock Dr	Start Of Street	264	5	3			X			X	15
Linden Rd.	Shamrock Dr.	Start Of Street	264	0	0				X		X	15
Linden Rd	Strombus Rd	Dunbar Rd	1584	8	3			X			X	15
Linden Rd	Strombus Rd	Dunbar Rd.	1584	8	4				X		X	15
Dunbar Rd	Start Of Street	Ballin Dr.	792	9	4	X					X	15
Dunbar Rd.	Start Of Street	Ballin Dr	792	9	3		X				X	15
Siren Rd.	Linden Rd.	Sea Fox Rd.	528	7	3			X			X	15
Siren Rd.	Linden rd	Sea Fox Rd	528	6	4				X		X	15
Sea Fox Rd	Linden Rd	Linden Rd.	1584	7	4			X			X	15
Sea Fox Rd	Linden Rd.	Linden Rd.	1584	8	4				X		X	15
Strombus Rd	Linden Rd	End Of Street	528	9	3	X					X	15
Strombus Rd	Linden Rd.	End Of Street	528	8	4		X				X	15
Yacht Club Dr	Shamrock Dr	Graham Rd	2112	6	3			X			X	15
Yacht Club Dr	Shamrock Dr	Graham Rd	2112	6	4				X		X	15
Coleman Rd	Hudson Rd.	Kimball Rd.	528	7	3	X					X	15
Coleman Rd	Hudson Rd.	Kimball Rd.	528	10	4		X				X	15
Coleman Rd	Kimball Rd	Nantucket Rd	528	7	3	X					X	15
Coleman Rd	Kimball Rd	Nantucket Rd	528	10	4		X				X	15
Hibiscus Rd	Coleman Rd.	Hudson Rd	1320	5	2	X					X	15
Hibiscus Rd	Coleman Rd.	Hudson Rd.	1320	5	3		X				X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Shamrock Dr	Lemon Bay Dr	Queen Rd.	5280	9	4	X					X	15
Shamrock Dr.	Lemon Bay Dr	Queen Rd	5280	10	5		X				X	15
Shamrock Dr	Queen Rd	Onole Rd	4224	8	1			X			X	15
Shamrock Dr	Queen Rd	Onole Rd	4224	7	4				X		X	15
Shamrock Dr.	Onole Rd	South Tamsami Trail	5280	12	5	X					X	15
Shamrock Dr.	Onole Rd.	South Tamsami Trail	5280	12	5		X				X	15
Datura Rd.	Start Of Street	Baffin Dr	528	9	4			X			X	15
Datura Rd.	Start Of Street	Baffin Dr	528	8	4				X		X	15
Datura Rd.	Baffin Dr	Seminole Dr	1320	9	3			X			X	15
Datura Rd.	Baffin Dr	Seminole Dr	1320	7	4				X		X	15
Datura Rd.	Seminole Dr	Terapin Rd	1056	10	3			X			X	15
Datura Rd.	Seminole Dr.	Terapin Rd	1056	10	4				X		X	15
Terapin rd	Datura Rd	Quincy Rd	1584	8	3	X					X	15
Terapin Rd.	Datura Rd	Quincy Rd	1584	8	3		X				X	15
Bluebell Rd.	Quincy Rd	Poppy Rd	1584	8	4	X					X	15
Bluebell Rd.	Quincy Rd	Poppy Rd.	1584	6	2		X				X	15
Foxglove Rd	Poppy Rd.	Quincy Rd.	1584	5	2	X					X	15
Foxglove Rd.	Poppy Rd.	Quincy Rd	1584	6	3		X				X	15
Falkland Rd.	Quincy Rd.	Poppy Rd.	1320	7	3	X					X	15
Falkland Rd.	Quincy Rd.	Poppy Rd	1320	6	3		X				X	15
Poppy Rd.	Terapin Rd.	Bahama Rd	792	6	3			X			X	15
Poppy Rd.	Terapin Rd	Bahama Rd	792	6	4				X		X	15
Bahama Rd.	Quincy Rd	Gentian Rd	1848	8	3			X			X	15
Bahama Rd.	Quincy Rd.	Gentian Rd	1848	10	2				X		X	15
Thistle Rd.	Mallow Rd.	Quincy Rd	550	5	3	X					X	15
Thistle Rd.	Mallow Rd	Quincy Rd	550	5	2		X				X	15
Randolph Rd	Quincy Rd	Datura Rd	1848	9	4	X					X	15
Randolph Rd	Quincy Rd	Datura Rd	1848	9	3		X				X	15
Grant Rd.	Datura Rd	Quincy Rd.	1848	9	4	X					X	15
Grant Rd.	Datura Rd	Quincy Rd	1848	9	3		X				X	15
Burke Rd	Datura Rd	Quincy Rd	1584	8	3	X					X	15
Burke Rd.	Datura Rd	Quincy Rd	1584	7	4		X				X	15
Quincy Rd.	Datura Rd	Thistle Rd	3696	8	3	X					X	15
Quincy Rd.	Datura Rd	Thistle Rd	3696	5	3		X				X	15
Quincy Rd.	Thistle Rd	Thistle Rd.	550	8	4			X			X	15
Quincy Rd.	Thistle Rd.	Thistle Rd	550	10	6				X		X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE NORTH DEPTH	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Roslyn Rd.	Quincy Rd	Baffin Dr	2112	6	3		X			X	15
Roslyn Rd.	Quincy Rd	Baffin Dr	2112	6	4			X		X	15
Roslyn Rd.	Baffin Dr.	Start Of Street	264	3	2		X			X	15
Roslyn Rd.	Baffin Dr	Start Of Street	264	6	4			X		X	15
Papaya Rd.	Quincy Rd	Baffin Dr	1584	5	3		X			X	15
Papaya Rd.	Quincy Rd	Baffin Dr	1584	6	3			X		X	15
Orange Rd.	Baffin Dr	Quincy Rd	1320	8	3		X			X	15
Orange Rd.	Baffin Dr.	Quincy Rd	1320	7	3			X		X	15
Unicorn Rd.	Datura Rd.	Orange Rd	792	7	3	X				X	15
Unicorn Rd.	Datura Rd.	Orange Rd.	792	8	3		X			X	15
Victoria Rd.	Orange Rd	Datura Rd	550	8	3	X				X	15
Victoria Rd.	Orange Rd.	Datura Rd.	550	9	3		X			X	15
Taconic Rd.	Datura Rd.	Orange Rd.	550	8	3	X				X	15
Taconic Rd.	Datura Rd.	Orange Rd.	550	7	4		X			X	15
Pearry Rd.	Orange Rd.	Datura Rd.	528	8	3	X				X	15
Pearry Rd.	Orange Rd.	Datura Rd	528	8	4		X			X	15
Rallus Rd.	Datura Rd	Roslyn Rd	792	7	3	X				X	15
Rallus Rd.	Datura Rd	Roslyn Rd	792	8	3		X			X	15
Drake Rd.	Roslyn Rd	Datura Rd	792	8	3	X				X	15
Drake Rd	Roslyn Rd	Datura Rd	792	7	4		X			X	15
Virginia Rd	Start Of Street	Baffin Dr	792	0	0			X		X	15
Virginia Rd.	Start Of Street	Baffin Dr	792	8	3				X	X	15
Virginia Rd	Baffin Dr	End Of Street	264	6	3			X		X	15
Virginia Rd	Baffin Dr	End Of Street	264	7	3				X	X	15
Alligator Dr	South Tamiami Trail	Lemon Bay Dr	4224	9	4	X				X	15
Alligator Dr.	South Tamiami Trail	Lemon Bay Dr	4224	8	3		X			X	15
Alligator Dr	Lemon Bay Dr	Palmetto Dr	2640	8	3			X		X	15
Alligator Dr	Lemon Bay Dr	Palmetto Dr	2640	6	4				X	X	15
Kent Rd.	Palmetto Dr	Syracuse Rd	2640	8	4			X		X	15
Kent Rd.	Palmetto Dr	Syracuse Rd	2640	7	3				X	X	15
Kent Rd.	Syracuse Dr.	100 Ft. South Of Wabash Rd.	1056	8	3			X		X	15
Kent Rd.	Syracuse Dr	100 Ft. South Of Wabash Rd.	1056	7	2				X	X	15
Kent Rd	100 Ft. So. Of Wabash Rd	Gull Rd	264	0	0			X		X	15
Kent Rd.	100 Ft. So. Of Wabash Rd	Gull Rd.	264	0	0				X	X	15
Gull Rd.	Wabash Rd	Kent Rd.	550	9	4	X				X	15
Gull Rd.	Wabash Rd.	Kent Rd.	550	8	4		X			X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Lemon Bay Rd.	Alligator Dr.	Shamrock Dr.-Meridian No.	1056	7	3	X					X	15
Lemon Bay Rd.	Alligator Dr.	Shamrock Dr.-Meridian No.	1056	8	4		X				X	15
Lemon Bay Rd.	Meridian Rd.	Palmetto Dr.-Egret Rd	6136	10	4	X					X	15
Lemon Bay Rd.	Meridian Rd.	Palmetto Dr.-Egret Rd	6136	9	3		X				X	15
Hialeah Rd.	Alligator Dr.	South Venice Riv	2112	9	4			X			X	15
Hialeah Rd.	Alligator Dr.	South Venice Riv	2112	8	4				X		X	15
Crane Rd.	South Tamiami Trail	Hialeah Rd.	528	8	4	X					X	15
Crane Rd.	South Tamiami Trail	Hialeah Rd.	528	0	0		X				X	15
Crane Rd.	Hialeah Rd.	Tarpon Rd.	792	9	3	X					X	15
Crane Rd.	Hialeah Rd.	Tarpon Rd.	792	9	4		X				X	15
Crane Rd.	Tarpon Rd.	Pompano Rd.	792	8	3	X					X	15
Crane Rd.	Tarpon Rd.	Pompano Rd.	792	9	3		X				X	15
Jasmine Rd.	Hialeah Rd.	Alligator Dr.	1056	8	3	X					X	15
Jasmine Rd.	Hialeah Rd.	Alligator Dr.	1056	5	4		X				X	15
Maness Rd.	Jasmine Rd	Hialeah Rd	528	5	3	X					X	15
Maness Rd.	Jasmine Rd	Hialeah Rd	528	6	4		X				X	15
Cardinal Dr.	Hialeah Rd.	Tarpon Rd.-Alligator Dr	528	7	3	X					X	15
Cardinal Dr.	Hialeah Rd	Tarpon Rd.-Alligator Dr	528	6	4		X				X	15
Conrad Rd.	Hialeah Rd	Tarpon Rd	540	5	3	X					X	15
Conrad Rd.	Hialeah Rd	Tarpon Rd	540	6	4		X				X	15
Conrad Rd.	Tarpon Rd.	Treasure Rd	2640	7	3	X					X	15
Conrad Rd.	Tarpon Rd	Treasure Rd.	2640	6	4		X				X	15
Azalea Rd.	Hialeah Rd	Conrad Rd.	1320	6	4	X					X	15
Azalea Rd.	Hialeah Rd	Conrad Rd	1320	7	3		X				X	15
Pelican Rd.	Hialeah Rd.	Pompano Rd.	1584	6	3	X					X	15
Pelican Rd.	Hialeah Rd	Pompano Rd	1584	7	4		X				X	15
Plantation Rd.	Pompano Rd.	Hialeah Rd.	1584	9	4	X					X	15
Plantation Rd.	Pompano Rd	Hialeah Rd.	1584	6	3		X				X	15
Magnolia Rd.	Hialeah Rd	Pompano Rd.	1584	7	4	X					X	15
Magnolia Rd.	Hialeah Rd	Pompano Rd	1584	7	4		X				X	15
Treasure Rd.	Hialeah Rd	Zenith Rd.	3168	7	3	X					X	15
Treasure Rd.	Hialeah Rd.	Zenith Rd.	3168	6	4		X				X	15
Conus Rd.	Treasure Rd.	Triton Rd.	528	0	0			X			X	15
Conus Rd.	Treasure Rd.	Triton Rd	528	5	3				X		X	15
Triton Rd.	Treasure Rd.	Conrad Rd.	792	5	4			X			X	15
Triton Rd.	Treasure Rd.	Conrad Rd	792	5	3				X		X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
South Venice Bv	South Tamiami Trail	Lemon Bay Dr	6864	7	1	X					X	15
South Venice Bv	South Tamiami Trail	Lemon Bay Dr	6864	8	4		X				X	15
Tarpon Rd	Alligator Dr	South Venice Bv	1848	10	1			X			X	15
Tarpon Rd	Alligator Dr	South Venice Bv	1848	10	1				X		X	15
Tarpon Rd	South Venice Bv	Palmetto Dr	1848	10	4			X			X	15
Tarpon Rd	South Venice Bv	Palmetto Dr	1848	12	3				X		X	15
Pompano Rd	Alligator Dr	South Venice Bv	1584	9	4	X					X	15
Pompano Rd	Alligator Dr	South Venice Bv	1584	10	3		X				X	15
Pompano Rd	South Venice Bv	Flamingo Rd	1584	10	1	X					X	15
Pompano Rd	South Venice Bv	Flamingo Rd	1584	10	4		X				X	15
Pompano Rd	Flamingo Rd	Hobart Rd	3696	9	3	X					X	15
Pompano Rd	Flamingo Rd	Hobart Rd	3696	8	1		X				X	15
Amber Rd	South Venice Bv	Southland Rd	1056	6	1			X			X	15
Amber Rd	South Venice Bv	Southland Rd	1056	7	4				X		X	15
Mercury Rd	Southland Rd	Flamingo Rd	550	6	3			X			X	15
Mercury Rd	Southland Rd	Flamingo Rd	550	5	1				X		X	15
Blossom Rd	Flamingo Rd	Southland Rd	792	6	3			X			X	15
Blossom Rd	Flamingo Rd	Southland Rd	792	5	1				X		X	15
Pandora Rd	Southland Rd	Flamingo Rd	550	5	4			X			X	15
Pandora Rd	Southland Rd	Flamingo Rd	550	5	3				X		X	15
Porpoise Rd	Tarpon Rd	Alligator Dr	2112	7	1	X					X	15
Porpoise Rd	Tarpon Rd	Alligator Dr	2112	7	2		X				X	15
Porpoise Rd	Alligator Dr	Nautilus Rd	3696	7	3	X					X	15
Porpoise Rd	Alligator Dr	Nautilus Rd	3696	7	3		X				X	15
Rainbow Rd	Porpoise Rd	Flamingo Rd	1584	6	4			X			X	15
Rainbow Rd	Porpoise Rd	Flamingo Rd	1584	5	1				X		X	15
Poinciana Rd	Rainbow Rd	Egret Rd	1848	7	3	X					X	15
Poinciana Rd	Rainbow Rd	Egret Rd	1848	8	3		X				X	15
Poinciana Rd	Egret Rd	Southland Rd	1320	8	4	X					X	15
Poinciana Rd	Egret Rd	Southland Rd	1320	8	3		X				X	15
Sunrise Rd	Egret Rd	Heron Rd	792	8	1	X					X	15
Sunrise Rd	Egret Rd	Heron Rd	792	7	3		X				X	15
Sunrise Rd	Heron Rd	Rainbow Rd	1056	6	2	X					X	15
Sunrise Rd	Heron Rd	Rainbow Rd	1056	5	2		X				X	15
Carmel Rd	Tarpon Rd	Crystal Dr	1848	8	1	X					X	15
Carmel Rd	Tarpon Rd	Crystal Dr	1848	6	1		X				X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Cabana Rd.	Crystal Dr.	Tarpon Rd	1848	7	3	X					N	15
Cabana Rd.	Crystal Dr.	Tarpon Rd	1848	6	4		X				N	15
Southland Rd.	SR 776	Alligator Dr.	3168	8	3	X					N	15
Southland Rd.	SR 776	Alligator Dr.	3168	6	3		X				N	15
Southland Rd.	Alligator Dr.	Egret Rd.	2112	8	3	X					N	15
Southland Rd.	Alligator Dr.	Egret Rd.	2112	7	4		X				N	15
Southland Rd.	Egret Rd.	Lemon Bay Rd.	1584	8	4	X					N	15
Southland Rd.	Egret Rd.	Lemon Bay Rd	1584	8	4		X				N	15
Garden Rd.	Tarpon Rd	Crystal Rd.	2112	10	4	X					N	15
Garden Rd.	Tarpon Rd.	Crystal Rd.	2112	10	3		X				N	15
Coronado Rd.	Crystal Rd.	Tarpon Rd	2112	7	3	X					N	15
Coronado Rd.	Crystal Rd.	Tarpon Rd	2112	6	4		X				N	15
Flamingo Rd.	SR 776	Egret Rd.	5280	10	4	X					N	15
Flamingo Rd.	SR 776	Egret Rd.	5280	9	3		X				N	15
Crystal Rd.	Flamingo Rd.	Porpoise Rd.	1320	8	3			X			N	15
Crystal Rd.	Flamingo Rd.	Porpoise Rd.	1320	7	3				X		N	15
Palmetto Dr.	SR 776	Lemon Bay Rd -Egret Rd.	5280	10	3	X					N	15
Palmetto Dr.	SR 776	Lemon Bay Rd -Egret Rd	5280	10	4		X				N	15
Mangrove Rd.	East End	Kent Rd.	528	7	4	X					N	15
Mangrove Rd.	East End	Kent Rd.	528	12	6		X				N	15
Mangrove Rd.	Kent Rd.	Heron Rd.	1320	10	3	X					N	15
Mangrove Rd.	Kent Rd.	Heron Rd.	1320	10	3		X				N	15
Mangrove Rd.	Heron Rd.	Egret Rd.	1056	6	3	X					N	15
Mangrove Rd.	Heron Rd.	Egret Rd.	1056	6	3		X				N	15
Tortoise Rd.	Palmetto Dr.	Abalone Rd	1320	6	4			X			N	15
Tortoise Rd.	Palmetto Dr.	Abalone Rd	1320	5	2				X		N	15
Marlin Rd.	Tortoise Rd.	Azure Rd.	2640	5	3	X					N	15
Marlin Rd.	Tortoise Rd.	Azure rd.	2640	6	3		X				N	15
Abalone Rd.	Tortoise Rd.	SR 776	1584	8	4			X			N	15
Abalone Rd.	Tortoise Rd.	SR 776	1584	6	3				X		N	15
Coral Rd.	Pompano Rd.	Bonita Rd.	1320	6	3	X					N	15
Coral Rd.	Pompano Rd.	Bonita Rd.	1320	5	3		X				N	15
Bonita Rd.	Abalone Rd.	Cypress Rd.	1584	10	3			X			N	15
Bonita Rd.	Abalone Rd	Cypress Rd	1584	10	3				X		N	15
Shell Rd.	Bonita Rd	Pompano Rd	1320	7	4	X					N	15
Shell Rd.	Bonita Rd	Pompano Rd	1320	6	2		X				N	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Cowry Rd.	Pompano Rd.	Bonita Rd.	1320	7	4	X					X	15
Cowry Rd.	Pompano Rd.	Bonita Rd.	1320	7	1		X				X	15
Periwinkle Rd.	Bonita Rd.	Pompano Rd.	1320	6	4	X					X	15
Periwinkle Rd.	Bonita Rd.	Pompano Rd.	1320	6	3		X				X	15
Holly Rd.	Pompano Rd.	Bonita Rd.	1320	5	3	X					X	15
Holly Rd.	Pompano Rd.	Bonita Rd.	1320	6	1		X				X	15
Azure Rd.	Bonita Rd.	Pompano Rd.	1320	7	4	X					X	15
Azure Rd.	Bonita Rd.	Pompano Rd.	1320	5	3		X				X	15
Azure Rd.	Pompano Rd.	West of Kent Rd.	1584	10	4	X					X	15
Azure Rd.	Pompano Rd.	West of Kent Rd.	1584	7	4		X				X	15
Cypress Rd.	Mangrove Rd.	Kent Rd.	792	8	3	X					X	15
Cypress Rd.	Mangrove Rd.	Kent Rd.	792	7	3		X				X	15
Cypress Rd.	Kent Rd.	SR 776	3960	7	4	X					X	15
Cypress Rd.	Kent Rd.	SR 776	3960	6	3		X				X	15
Princeton Rd.	Florida Rd.	SR 776	1056	8	4	X					X	15
Princeton Rd.	Florida Rd.	SR 776	1056	12	4		X				X	15
Florida Rd.	North of Princeton Rd.	Cypress Rd.	300	10	4			X			X	15
Florida Rd.	North of Princeton Rd.	Cypress Rd.	309	10	4				X		X	15
Florida Rd.	Cypress Rd.	Dartmouth Rd.	1320	10	4			X			X	15
Florida Rd.	Cypress Rd.	Dartmouth Rd.	1320	11	5				X		X	15
Bowdoin Rd.	Florida Rd.	SR 776	1056	8	4	X					X	15
Bowdoin Rd.	Florida Rd.	SR 776	1056	6	3		X				X	15
Vassar Rd.	Bowdoin Rd.	Rutgers Rd.	300	0	0			X			X	15
Vassar Rd.	Bowdoin Rd.	Rutgers Rd.	300	4	2				X		X	15
Columbia Rd.	Vassar Rd.	Florida Rd.	792	6	3	X					X	15
Columbia Rd.	Vassar Rd.	Florida Rd.	792	6	3		X				X	15
Rutgers Rd.	Florida Rd.	SR 776	1056	6	3	X					X	15
Rutgers Rd.	Florida Rd.	SR 776	1056	5	2		X				X	15
Mimosa Rd.	Cypress Rd.	Ponderosa Rd.	550	6	3			X			X	15
Minosa Rd.	Cypress Rd.	Ponderosa Rd.	550	5	3				X		X	15
Olivia Rd.	Ponderosa Rd.	End of Rd	1584	8	4			X			X	15
Olivia Rd.	Ponderosa Rd.	End of Rd	1584	7	3				X		X	15
Caryl Rd.	Olivia Rd.	Ponderosa Rd.	528	8	3			X			X	15
Caryl Rd.	Olivia Rd.	Ponderosa Rd.	528	8	3				X		X	15
Ponderosa Rd.	Caryl Rd.	Pompano Rd.	550	6	3	X					X	15
Ponderosa Rd.	Caryl Rd.	Pompano rd	550	0	0		X				X	15

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDTH	SLOPE	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Ponderosa Rd	Pompano Rd	Kent Rd	1320	0	0	X					X	15
Ponderosa Rd	Pompano Rd	Kent Rd	1320	0	0		X				X	15
Ponderosa Rd	Kent Rd	Heron Rd	1320	6	3	X					X	15
Ponderosa Rd	Kent Rd	Heron Rd	1320	5	3		X				X	15
Ponderosa Rd	Heron Rd	Palmetto-Lemon Bay Dr	1320	7	4	X					X	15
Ponderosa Rd	Heron Rd	Palmetto-Lemon Bay Dr	1320	6	3		X				X	15
Dolphin Rd	Mangrove Rd	Marlin Rd	792	11	4			X			X	15
Dolphin Rd	Mangrove Rd	Marlin Rd	792	10	3				X		X	15
Neptune Rd	Azure Rd	Marlin Rd	1056	8	4			X			X	15
Neptune Rd	Azure Rd	Marlin Rd	1056	8	4				X		X	15
Citrus Rd	Heron Rd	Kent Rd	1056	12	4	X					X	15
Citrus Rd	Heron Rd	Kent Rd	1056	11	4		X				X	15
Citrus Rd	Kent Rd	Pompano Rd	1320	5	3	X					X	15
Citrus Rd	Kent Rd	Pompano Rd	1320	5	3		X				X	15
Nectar Rd	Pompano Rd	Kent Rd	1320	6	3	X					X	15
Nectar Rd	Pompano Rd	Kent Rd	1320	4	3		X				X	15
Nectar Rd	Kent Rd	Heron Rd	1100	6	3	X					X	15
Nectar Rd	Kent Rd	Heron Rd	1100	12	4		X				X	15
Nectar Rd	Heron Rd	Start of Street West	264	5	3	X					X	15
Nectar Rd	Heron Rd	Start of Street West	264	5	3		X				X	15
Heron Rd	Seneca Rd	South Venice Bv	3696	12	5			X			X	15
Heron Rd	Seneca Rd	South Venice Bv	3696	12	4				X		X	15
Duquesne Rd	Heron Rd	Syracuse Rd	1056	10	4	X					X	16
Duquesne Rd	Heron Rd	Syracuse Rd	1056	6	3		X				X	16
Tampa Rd	Heron Rd	Citadel Rd	528	0	0	X					X	16
Tampa Rd	Heron Rd	Citadel Rd	528	0	0		X				X	16
Auburn Rd	Citadel Rd	Heron Rd	528	10	4	X					X	16
Auburn Rd	Citadel Rd	Heron Rd	528	9	5		X				X	16
Citadel Rd	Wabash Rd	Duquesne Rd	1056	6	3			X			X	16
Citadel Rd	Wabash Rd	Duquesne Rd	1056	7	3				X		X	16
Drew Rd	Duquesne Rd	Wabash Rd	1056	5	3			X			X	16
Drew Rd	Duquesne Rd	Wabash Rd	1056	5	3				X		X	16
Wabash Rd	Citadel Rd	Kent Rd	792	4	2	X					X	16
Wabash Rd	Citadel Rd	Kent Rd	792	4	2		X				X	16
Lehigh Rd	Kent Rd	Pratt Rd	528	6	4	X					X	16
Lehigh Rd	Kent Rd	Pratt Rd	528	6	3		X				X	16

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Lehigh Rd.	Pratt Rd.	Grinnell Rd	1320	7	4	X					X	16
Lehigh Rd.	Pratt Rd	Grinnell Rd	1320	7	4		X				X	16
Hobart Rd.	Grinnell Rd.	Pompano Rd	528	0	0	X					X	16
Hobart Rd	Grinnell Rd	Pompano Rd	528	8	4		X				X	16
Hobart Rd	Pompano Rd	Kent Rd	1320	7	4	X					X	16
Hobart Rd.	Pompano Rd	Kent Rd	1320	8	4		X				X	16
Colgate Rd.	Kent Rd	Pompano Rd	1320	6	3	X					X	16
Colgate Rd.	Kent Rd.	Pompano Rd	1320	6	3		X				X	16
Colgate Rd.	Pompano Rd	Grinnell Rd	528	7	3	X					X	16
Colgate Rd.	Pompano Rd	Grinnell Rd.	528	6	3		X				X	16
Missouri Rd.	Grinnell Rd.	Pompano Rd	528	7	4	X					X	16
Missouri Rd.	Grinnell Rd.	Pompano Rd	528	6	3		X				X	16
Missouri Rd	Pompano Rd	Kent Rd	1320	0	0	X					X	16
Missouri Rd.	Pompano Rd	Kent Rd	1320	0	0		X				X	16
Pratt Rd.	Hobart Rd.	Duke Rd	792	8	5			X			X	16
Pratt Rd.	Hobart Rd	Duke Rd	792	7	4				X		X	16
Duke Rd	Pratt Rd.	Baylor Rd	1320	5	7	X					X	16
Duke Rd.	Pratt Rd.	Baylor Rd.	1320	6	3		X				X	16
Yale Rd.	Grinnell Rd	Pratt Rd	1320	7	3	X					X	16
Yale Rd.	Grinnell Rd.	Pratt Rd	1320	6	3		X				X	16
Marquette Rd.	Grinnell Rd	Miami Rd	792	7	3	X					X	16
Marquette Rd.	Grinnell Rd.	Miami Rd.	792	6	4		X				X	16
Fordham Rd	Miami Rd	Grinnell Rd.	792	7	4	X					X	16
Fordham Rd.	Miami Rd.	Grinnell Rd	792	6	3		X				X	16
Buchnell Rd.	Grinnell Rd.	Miami Rd	792	7	4	X					X	16
Buchnell Rd.	Grinnell Rd	Miami Rd	792	7	4		X				X	16
Howard Rd.	Miami Rd.	Baylor Rd.	528	8	3	X					X	16
Howard Rd.	Miami Rd	Baylor Rd	528	6	4		X				X	16
Villanova Rd.	Baylor Rd	Miami Rd	528	6	3	X					X	16
Villanova Rd.	Baylor Rd	Miami Rd	528	7	4		X				X	16
Trinity Rd	Miami Rd	Baylor Rd.	528	7	4	X					X	16
Trinity Rd.	Miami Rd.	Baylor Rd	528	6	3		X				X	16
Wesleyan Rd.	Baylor Rd	Miami Rd	528	6	4	X					X	16
Wesleyan Rd.	Baylor Rd	Miami Rd	528	6	3		X				X	16
Purdue Rd.	Miami Rd	Baylor Rd - Choctaw Rd	528	8	4	X					X	16
Purdue Rd.	Miami Rd	Baylor Rd - Choctaw Rd	528	7	5		X				X	16

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Baylor Rd	Purdue-Osceola Rd	Buchnell Rd	1320	6	0			X		X	16	
Baylor Rd	Purdue-Osceola Rd	Buchnell Rd	1320	8	4				X	X	16	
Urbana Rd	Baylor Rd	Rice Rd	1056	6	4	X				X	16	
Urbana Rd	Baylor Rd	Rice Rd	1056	8	3		X			X	16	
Rice Rd	Duke Rd	Brown Rd	528	6	3			X		X	16	
Rice Rd	Duke Rd	Brown Rd	528	5	4				X	X	16	
Brown Rd	Start of Street West	Stephans Rd	792	6	4	X				X	16	
Brown Rd	Start of Street West	Stephans Rd	792	6	3		X			X	16	
Stephans Rd	Osceola Rd	Urbana Rd	550	0	0			X		X	16	
Stephans Rd	Osceola Rd	Urbana Rd	550	6	4				X	X	16	
Osceola Rd	Baylor Rd	Colonial Rd	792	7	3	X				X	16	
Osceola Rd	Baylor Rd	Colonial Rd	792	6	4		X			X	16	
Miami Rd	Purdue Rd	Dartmouth Rd	1848	7	4			X		X	16	
Miami Rd	Purdue Rd	Dartmouth Rd	1848	8	6				X	X	16	
Dartmouth Rd	Miami Rd	SR 776	1320	6	3	X				X	16	
Dartmouth Rd	Miami Rd	SR 776	1320	6	4		X			X	16	
Clemson Rd	Miami Rd	SR 776	1320	8	5	X				X	16	
Clemson Rd	Miami Rd	SR 776	1320	8	4		X			X	16	
Oberlin Rd	Miami Rd	SR 776	1320	8	4	X				X	16	
Oberlin Rd	Miami Rd	SR 776	1320	8	5		X			X	16	
Tulane Rd	Miami Rd	SR 776	1320	9	5	X				X	16	
Tulane Rd	Miami Rd	SR 776	1320	8	4		X			X	16	
Cornell Rd	Miami Rd	SR 776	1320	8	5	X				X	16	
Cornell Rd	Miami Rd	SR 776	1320	8	3		X			X	16	
Stanford Rd	Miami Rd	SR 776	1320	9	4	X				X	16	
Stanford Rd	Miami Rd	SR 776	1320	8	4		X			X	16	
Loyola Rd	Miami Rd	SR 776	1320	7	5	X				X	16	
Loyola Rd	Miami Rd	SR 776	1320	7	3		X			X	16	
Temple Rd	Miami Rd	SR 776	1320	8	3	X				X	16	
Temple Rd	Miami Rd	SR 776	1320	8	3		X			X	16	
Colby Rd	Temple Rd	35-449	264	7	3			X		X	16	
Colby Rd	Temple Rd	35-449	264	6	3				X	X	16	

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Seneca Rd.	Kenisco Rd	Osprey Rd	2640	6	4			X			X	16
Seneca Rd.	Kenisco Rd.	Osprey Rd	2640	5	3				X		X	16
Kenisco Rd.	Seneca Rd.	Varet Rd.	1584	0	0			X			X	16
Kenisco Rd.	Seneca Rd.	Varet Rd.	1584	0	0				X		X	16
Kenisco Rd.	Varet Rd.	Colonial Rd.-Elton Rd.	528	8	4			X			X	16
Kenisco Rd.	Varet Rd	Colonial Rd.-Elton Rd.	528	8	3				X		X	16
Colonial Rd.	Elton Rd.	Osprey Rd.	550	9	5	X					X	16
Colonial Rd.	Elton Rd.	Osprey Rd	550	8	4		X				X	16
Colonial Rd.	Osprey Rd	East Of Osceola Rd.	1056	10	5	X					X	16
Colonial Rd.	Osprey Rd	East Of Osceola Rd	1056	9	4		X				X	16
Panda Rd	Osprey Rd.	Varet Rd.	1056	5	3	X					X	16
Panda Rd.	Osprey Rd	Varet Rd.	1056	0	0		X				X	16
Panda Rd.	Varet Rd	Kenisco Rd	1056	4	4	X					X	16
Panda Rd.	Varet Rd.	Kenisco Rd.	1056	4	4		X				X	16
Varet Rd.	Seneca Rd	Euclid Rd.	528	0	0	X					X	16
Varet Rd.	Seneca Rd	Euclid Rd.	528	0	0		X				X	16
Varet Rd	Euclid Rd.	Hale Rd	550	0	0	X					X	16
Varet Rd.	Euclid Rd	Hale Rd	550	5	4		X				X	16
Hale Rd.	Varet Rd.	Kenisco Rd.	528	5	3			X			X	16
Hale Rd.	Varet Rd.	Kenisco Rd.	528	5	4				X		X	16
Elton Rd	Ocelot Rd.	Kenisco Rd.	1056	6	3	X					X	16
Elton Rd	Ocelot Rd.	Kenisco Rd.	1056	7	4		X				X	16
Euclid Rd.	Colonial Rd	Varet Rd	1056	6	5	X					X	16
Euclid Rd	Colonial Rd	Varet Rd.	1056	6	5		X				X	16
Euclid Rd	Varet Rd.	Kenisco Rd	792	0	0	X					X	16
Euclid Rd.	Varet Rd	Kenisco Rd	792	0	0		X				X	16
Phorus Rd.	Elton Rd.	Ocelot Rd.	1320	8	4			X			X	16
Phorus Rd.	Elton Rd.	Ocelot Rd.	1320	7	4				X		X	16
Plover Rd.	Ocelot Rd.	Phorus Rd	792	9	5			X			X	16
Plover Rd.	Ocelot Rd.	Phorus Rd	792	10	5				X		X	16
Ocelot Rd	Phorus Rd	Osprey Rd	1056	10	5	X					X	16
Ocelot Rd.	Phorus Rd	Osprey Rd.	1056	10	5		X				X	16

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Regent Rd.	Colonial Rd.	Ocelot Rd.	1056	8	4			X			X	16
Regent Rd.	Colonial Rd.	Ocelot Rd.	1056	12	5				X		X	16
Oxalis Rd.	Ocelot Rd.	Colonial Rd.	1056	8	4			X			X	16
Oxalis Rd.	Ocelot Rd.	Colonial Rd.	1056	7	3				X		X	16
Marigold Rd.	Colonial Rd.	Macon Rd.	1584	10	3			X			X	16
Marigold Rd.	Colonial Rd.	Macon Rd.	1584	8	3				X		X	16
Viola Rd.	Macon Rd.	Colonial Rd.	1848	8	3			X			X	16
Viola Rd.	Macon Rd.	Colonial Rd.	1848	7	3				X		X	16
Orchis Rd.	Colonial Rd.	Macon Rd.	1848	8	4			X			X	16
Orchis Rd.	Colonial Rd.	Macon Rd.	1848	8	4				X		X	16
Diana Rd.	Macon Rd.	Orchis Rd.	1584	9	4			X			X	16
Diana Rd.	Macon Rd.	Orchis Rd.	1584	8	3				X		X	16
Fern Rd.	Diana Rd.	Diana Rd.	1056	9	5			X			X	16
Fern Rd.	Diana Rd.	Diana Rd.	1056	9	5				X		X	16
Macon Rd.	Osprey Rd.	Jack Street	1320	8	3	X					X	16
Macon Rd.	Osprey Rd.	Jack Street	1320	6	3		X				X	16
Raven Rd.	Macon Rd.	Covert Rd.	528	9	4			X			X	16
Raven Rd.	Macon Rd.	Covert Rd.	528	9	4				X		X	16
Covert Rd.	Raven Rd.	Pheasant Rd.	528	8	3	X					X	16
Covert Rd.	Raven Rd.	Pheasant Rd.	528	8	3		X				X	16
Pecan Rd.	Macon Rd.	Covert Rd.	528	6	3			X			X	16
Pecan Rd.	Macon Rd.	Covert Rd.	528	6	3				X		X	16
Pheasant Rd.	Macon Rd.	Belvidere Dr.	792	9	4			X			X	16
Pheasant Rd.	Macon Rd.	Belvidere Dr.	792	8	3				X		X	16
Belvidere Dr.	Alamander Av.	Manasota Beach Rd.	3168	6	3	X					X	16
Belvidere Dr.	Alamander Av.	Manasota Beach Rd.	3168	8	4		X				X	16
Miami Rd.	Belvidere Dr.	North End Of Street	2112	11	0			X			X	16
Miami Rd.	Belvidere Dr.	North End Of Street	2112	14	5				X		X	16
Venisota Rd.	Manasota Beach Rd.	End Of Pavement North	2112	6	3			X			X	16
Venisota Rd.	Manasota Beach Rd.	End Of Pavement North	2112	0	0				X		X	16
Denison Dr.	Manasota Beach Rd.	North End Of Street	2112	6	4			X			X	16
Denison Dr.	Manasota Beach Rd.	North End Of Street	2112	6	3				X		X	16

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT ft	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Gale Street	Manasota Beach Rd	Alamander Av.	2640	8	4	X					X	16
Gale Street	Manasota Beach Rd	Alamander Av.	2640	7	3		X				X	16
Hudson Street	Manasota Beach Rd	Alamander Av.	2376	8	4	X					X	16
Hudson Street	Manasota Beach Rd	Alamander Av.	2376	7	3		X				X	16
Fessler Street	Manasota Beach Rd	Alamander Av.	2112	4	3	X					X	16
Fessler Street	Manasota Beach Rd	Alamander Av.	2112	4	2		X				X	16
Larson Street	Manasota Beach Rd	Alamander Av.	1584	3	3	X					X	16
Larson Street	Manasota Beach Rd	Alamander Av.	1584	3	4		X				X	16
Alamander Av.	Delvidere Dr	Bayshore Dr	11610	7	4			X			X	16
Alamander Av	Delvidere Dr	Bayshore Dr	11610	7	1				X		X	16
Manasota Beach Rd.	776	East End Of R/W	1584	8	2	X					X	16
Manasota Beach Rd.	776	East End Of R/W	1584	0	0		X				X	16
Manasota Beach Rd.	776	Manasota Key Rd	7920	12	5	X					X	16
Manasota Beach Rd.	776	Manasota Key Rd	7920	13	5		X				X	16
Heasley Rd	Alamander Av.	Manasota Beach Rd	2112	6	3			X			X	16
Heasley Rd.	Alamander Av.	Manasota Beach Rd.	2112	7	4				X		X	16
Padre Ln.	Heasley Rd	End Of Street West	528	6	2	X					X	16
Padre Ln.	Heasley Rd	End Of Street West	528	6	1		X				X	16
Maria St.	Heasley Rd	East To #1640 Heasley Rd	1320	6	2	X					X	16
Maria St.	Heasley Rd.	East To #1640 Heasley Rd	1320	7	3		X				X	16
Thomas St.	Heasley Rd	Private Rd.	1584	5	2	X					X	16
Thomas St.	Heasley Rd.	Private Rd	1584	4	2		X				X	16
Bayshore Dr	Alamander Av	Neptune Dr.	5544	8	2			X			X	26
Bayshore Dr.	Alamander Av	Neptune Dr	5544	0	0				X		X	26
Neptune Dr	Bayshore Dr	Neptune Dr	4224	5	2			X			X	26
Neptune Dr	Bayshore Dr	Neptune Dr.	4224	4	2				X		X	26
Bridge St.	Bayshore Dr	Overbrook Rd	2112	0	0			X			X	26
Bridge St.	Bayshore Dr.	Overbrook Rd.	2112	5	2				X		X	26
Columbia Dr	Bridge St	Bayshore Dr	1584	10	5	X					X	26
Columbia Dr.	Bridge St.	Bayshore Dr	1584	9	5		X				X	26
Chadwick Rd	Bayshore Dr	Bridge St	1584	8	2	X					X	26
Chadwick Rd	Bayshore Dr.	Bridge St	1584	8	3		X				X	26

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Overbrook Rd.	Bayshore Dr	Bridge St	2112	8	3	X					X	26
Overbrook Rd	Bayshore Dr	Bridge St.	2112	8	2		X				X	26
Overbrook Rd	Bridge St	776	4752	8	3	X					X	17
Overbrook Rd	Bridge St	776	4752	8	2		X				X	17
Keyway Dr.	Overbrook Rd	North End Of R/W	528	5	2			X			X	26
Keyway Dr.	Overbrook Rd	North End Of R/W	528	5	3				X		X	26
West Crest Dr	Overbrook Rd	200' North Of Crest Dr	528	6	3			X			X	17
West Crest Dr	Overbrook Rd.	200' North Of Crest Dr	528	6	2				X		X	17
Crest Dr.	West Crest Dr.	East Crest Dr.	2112	6	4	X					X	17
Crest Dr.	West Crest Dr.	East Crest Dr.	2112	6	3		X				X	17
East Crest Dr	Crest Dr.	Overbrook Rd.	264	5	3			X			X	17
East Crest Dr	Crest Dr.	Overbrook Rd.	264	5	2				X		X	17
Keyway Rd.	Forked Creek Dr	Forked Creek Dr.	528	0	0	X					X	17
Keyway Rd.	Forked Creek Dr.	Forked Creek Dr.	528	11	6		X				X	17
De Price Rd.	Forked Creek Dr	Forked Creek Dr.	528	5	2	X					X	17
De Price Rd	Forked Creek Dr	Forked Creek Dr	528	5	3		X				X	17
Forked Creek Dr.	Overbrook Rd.	Overbrook Rd	3168	8	3			X			X	17
Forked Creek Dr.	Overbrook Rd	Overbrook Rd.	3168	8	2				X		X	17
Bueneau Rd	Forked Creek Dr	Forked Creek Dr	792	7	3	X					X	17
Bueneau Rd	Forked Creek Dr	Forked Creek Dr.	792	7	3		X				X	17
Leawood Rd	Forked Creek Dr	Forked Creek Dr.	1056	7	3	X					X	17
Leawood Rd	Forked Creek Dr	Forked Creek Dr	1056	6	4		X				X	17
Keyway Rd	776	Allen Street	264	0	0	X					X	17
Keyway Rd.	776	Allen Street	264	8	4		X				X	17
Bayshore Dr	Old Englewood Rd	Larchmont Dr	4752	8	4	X					X	26
Bayshore Dr	Old Englewood Rd	Larchmont Dr	4752	8	1		X				X	26
Bayshore Dr	Larchmont Dr	West Of Bridge Street	5280	9	3			X			X	26
Bayshore Dr.	Larchmont Dr	West Of Bridge Street	5280	8	2				X		X	26
Larchmont Dr	Bayshore Dr	130' West Of Bridge Street	3696	9	3			X			X	26
Larchmont Dr	Bayshore Dr.	130' West Of Bridge Street	3696	10	4				X		X	26
Gladstone Bv	Pineneedle Ln	Bayshore Dr.	792	6	3			X			X	26
Gladstone Bv	Pineneedle Ln.	Bayshore Dr	792	7	4				X		X	26

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Old Englewood Rd.	776	Dearborn Street	10560	13	6			X			X	17
Old Englewood Rd	776	Dearborn Street	10560	11	5				X		X	17
Edwards Street	Old Englewood Rd	Elm Street	2640	7	3	X					X	17
Edwards Street	Old Englewood Rd	Elm Street	2640	6	3		X				X	17
Cedar Av	Edwards Street	Leach Street	264	4	3			X			X	17
Cedar Av	Edwards Street	Leach Street	264	5	4				X		X	17
Leach Street	Elm Street	Kansas Av	1848	5	3	X					X	17
Leach Street	Elm Street	Kansas Av	1848	4	2		X				X	17
Gillespie Street	Olive Av.	Cedar Av	528	6	3	X					X	17
Gillespie Street	Olive Av	Cedar Av	528	5	3		X				X	17
Purdy Street	Olive Av	Cedar Av	528	5	2	X					X	17
Purdy Street	Olive Av.	Cedar Av	528	5	3		X				X	17
Purdy Street	Cedar Av	776	528	8	3	X					X	17
Purdy Street	Cedar Av.	776	528	7	4		X				X	17
Kansas Av.	Edwards Street	North End Of Street	528	5	4			X			X	26
Kansas Av.	Edwards Street	North End Of Street	528	5	3				X		X	26
Olive Av.	Gillespie Street	Viridian Street	1584	6	3			X			X	26
Olive Av	Gillespie Street	Viridian Street	1584	8	4				X		X	26
Olive Av.	Artist Av.	Old Englewood Rd.	1320	6	3			X			X	26
Olive Av.	Artist Av.	Old Englewood Rd	1320	5	3				X		X	26
Iowa Av.	Edwards Street	North End Of Street	528	5	2			X			X	26
Iowa Av.	Edwards Street	North End Of Street	528	4	3				X		X	26
Texas Av.	Texas Street	Ohio Av	264	6	3			X			X	26
Texas Av.	Texas Street	Ohio Av.	264	6	3				X		X	26
Texas Street	Texas Av	Palm Av	528	5	3	X					X	26
Texas Street	Texas Av.	Palm Av.	528	5	3		X				X	26
Texas Street	Palm Av.	Old Englewood Rd.	528	6	4	X					X	26
Texas Street	Palm Av	Old Englewood Rd	528	6	3		X				X	26
Ohio Cl.	Texas Street	Ohio Av	528	5	5			X			X	26
Ohio Cl.	Texas Street	Ohio Av	528	4	4				X		X	26
Palm Av	Ohio Av.	Texas Street	528	5	2			X			X	26
Palm Av.	Ohio Av.	Texas Street	528	4	2				X		X	26

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Ohio Av	Texas Av	Curtis Bv	528	0	0	X					X	26
Ohio Av	Texas Av	Curtis Bv	528	5	2		X				X	26
Ohio Av	Curtis Bv	Old Englewood Rd	528	5	3	X					X	26
Ohio Av	Curtis Bv	Old Englewood Rd	528	6	1		X				X	26
Curtis Bv	Ohio Av	Stewart Street	2117	5	2			X			X	26
Curtis Bv	Ohio Av	Stewart Street	2112	3	2				X		X	26
Curtis Bv	Stewart Street	Chapin Bv	792	5	3			X			X	26
Curtis Bv	Stewart Street	Chapin Bv	792	5	2				X		X	26
Morrison Av	Curtis Bv	Kilbourne Av	528	0	0	X					X	17
Morrison Av	Curtis Bv	Kilbourne Av	528	5	3		X				X	17
Kilbourne Av	Old Englewood Rd	Stewart Street	2112	6	4			X			X	17
Kilbourne Av	Old Englewood Rd	Stewart Street	2112	7	2				X		X	17
Brengle Street	Curtis Bv	Bay Park Bv	528	6	3	X					X	17
Brengle Street	Curtis Bv	Bay Park Bv	528	6	2		X				X	17
Bay Park Bv	Brengle St	Stewart St	528	6	3			X			X	26
Bay Park Bv	Brengle St	Stewart St	528	6	4				X		X	26
Stewart Street	Bay Park Bv	Old Englewood Rd	2640	8	3	X					X	26
Stewart Street	Bay Park Bv	Old Englewood Rd	2640	7	4		X				X	26
Stewart Street	Old Englewood Rd	Elm St	1056	7	3	X					X	26
Stewart Street	Old Englewood Rd	Elm St	1056	6	4		X				X	26
Palm Street	Harvard St	Stewart St	528	0	0			X			X	26
Palm Street	Harvard St	Stewart St	528	3	2				X		X	26
Harvard Street	Palm St	Old Englewood Rd	1584	7	4	X					X	26
Harvard Street	Palm St	Old Englewood Rd	1584	6	3		X				X	26
Harvard Street	Old Englewood Rd	Elm St	1056	7	3	X					X	17
Harvard Street	Old Englewood Rd	Elm St	1056	6	4		X				X	17
Harvard Street	New York Av	776	528	4	3	X					X	17
Harvard Street	New York Av	776	528	4	2		X				X	17
Pineapple Street	Harvard St	Wentworth St	1056	6	4			X			X	17
Pineapple Street	Harvard St	Wentworth St	1056	5	3				X		X	17
Yale Street	Start Of Street West	Old Englewood Rd	1320	6	3	X					X	26
Yale Street	Start Of Street West	Old Englewood Rd	1320	8	4		X				X	26

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Yale Street	Old Englewood Rd.	Elm St	1056	8	5	X					X	26
Yale Street	Old Englewood Rd.	Elm St	1056	8	4		X				X	26
Westworth Street	Start Of Street West	Old Englewood Rd	1056	9	6	X					X	17
Westworth Street	Start Of Street West	Old Englewood Rd.	1056	8	4		X				X	17
Westworth Street	Old Englewood Rd	Elm St	1056	5	3	X					X	17
Westworth Street	Old Englewood Rd	Elm St	1056	6	3		X				X	17
Westworth Street	Elm St	776	2640	14	4	X					X	17
Westworth Street	Elm St	776	2640	15	4		X				X	17
Westworth Street	776	Broadway Rd.	528	3	2	X					X	17
Westworth Street	776	Broadway Rd	528	3	2		X				X	17
Westworth Street	Broadway Rd.	Stratford Rd	1320	4	2	X					X	17
Westworth Street	Broadway Rd.	Stratford Rd	1320	3	2		X				X	17
Perry Street	Southwind Dr.	Old Englewood Rd	1056	6	4	X					X	17
Perry Street	Southwind Dr.	Old Englewood Rd	1056	8	5		X				X	17
Perry Street	Old Englewood Rd.	Elm St	1056	6	3	X					X	17
Perry Street	Old Englewood Rd.	Elm St	1056	8	5		X				X	17
Blackburn Street	Start Of Street West	Elm St.	1584	8	3	X					X	17
Blackburn Street	Start Of Street West	Elm St	1584	7	4		X				X	17
Viridian Street	Van Gogh Rd.	Elm St.	1320	7	3	X					X	17
Viridian Street	Van Gogh Rd	Elm St	1320	10	6		X				X	17
Van Gogh Rd	Madder Ln.	Artist Av	264	0	0			X			X	17
Van Gogh Rd	Madder Ln	Artist Av	264	5	3				X		X	17
Harmony Ln	Artist Av	North End Of Street	1320	6	4			X			X	17
Harmony Ln	Artist Av	North End Of Street	1320	6	5				X		X	17
Artist Av	Old Englewood Rd	776	4224	8	5	X					X	17
Artist Av.	Old Englewood Rd	776	4224	7	4		X				X	17
Elm Street	776	Artist Av	2640	7	4			X			X	17
Elm Street	776	Artist Av	2640	11	6				X		X	17
Elm Street	Artist Av	Stewart St	1584	20	5			X			X	17
Elm Street	Artist Av	Stewart St	1584	10	4				X		X	17
Elm Street	Stewart St	Dearborn St	2904	7	4			X			X	17
Elm Street	Stewart St.	Dearborn St	2904	8	3				X		X	17

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
McCall Rd.	Dearborn St	Wentworth St	1320	8	4			X			X	17
McCall Rd.	Dearborn St	Wentworth St	1320	7	3				X		X	17
McCall Rd.	Wentworth St.	Artist Av.	1168	8	4			X			X	17
McCall Rd.	Wentworth St.	Artist Av.	1168	8	5				X		X	17
Cedar Street	Stewart St	Wentworth St	1848	6	3			X			X	17
Cedar Street	Stewart St.	Wentworth St.	1848	6	3				X		X	17
Cedar Street	Wentworth St	Dearborn St.	1056	5	3			X			X	17
Cedar Street	Wentworth St.	Dearborn St	1056	0	0				X		X	17
New York Av.	Perry Ln.	Harvard St.	1320	5	3			X			X	17
New York Av	Perry Ln	Harvard St.	1320	15	5				X		X	17
Perry Ln.	776	McCall Rd.	1056	6	3	X					X	17
Perry Ln.	776	McCall Rd.	1056	5	3		X				X	17
Perry Ln.	776	North Broadway Rd	528	6	3	X					X	17
Perry Ln.	776	North Broadway Rd.	528	4	3		X				X	17
Cocconut Av.	776	McCall Rd.	1320	0	0	X					X	17
Cocconut Av.	776	McCall Rd.	1320	4	2		X				X	17
Cocconut Av	McCall Rd	Elm St.	1056	4	5	X					X	17
Cocconut Av.	McCall Rd	Elm St.	1056	4	2		X				X	17
Cocconut Av.	Cedar St.	Old Englewood Rd	528	4	2	X					X	17
Cocanut Av.	Cedar St.	Old Englewood Rd.	528	0	0		X				X	17
Orange Street	Green St	Dearborn St.	264	0	0			X			X	26
Orange Street	Green St	Dearborn St.	264	5	2				X		X	26
Orange Street	Dearborn St.	Perry St	528	4	2			X			X	26
Orange Street	Dearborn St.	Perry St.	528	3	3				X		X	26
Mango Street	Palm Grove St	Dearborn St	1848	5	3			X			X	26
Mango Street	Palm Grove St	Dearborn St	1848	6	3				X		X	26
Mango Street	Dearborn St	Perry St	528	5	3			X			X	26
Mango Street	Dearborn St.	Perry St.	528	4	3				X		X	26
Maple Street	Perry St.	Dearborn St	528	3	2			X			X	26
Maple Street	Perry St	Dearborn St	528	2	2				X		X	26
Maple Street	Cowles St	Palm Grove Av.	528	4	2			X			X	26
Maple Street	Cowles St.	Palm Grove St	528	4	2				X		X	26

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Thrall Street	Wentworth St.	Perry Ln	528	4	2			X			X	26
Thrall Street	Wentworth St.	Perry Ln	528	6	3				X		X	26
Broadway Rd.	Dearborn St.	North Broadway Rd.	2112	7	3			X			X	17
Broadway Rd.	Dearborn St.	North Broadway Rd.	2112	6	3				X		X	17
Lakeview Ln.	North Broadway Rd.	Stratford Rd.	1320	2	2	X					X	17
Lakeview Ln.	Northway Rd.	Stratford Rd.	1320	0	0		X				X	17
Stratford Rd.	Brighton Rd.	Wentworth St.	1056	6	4			X			X	17
Stratford Rd.	Brighton Rd.	Wentworth St.	1056	6	4				X		X	17
Stratford Rd.	Wentworth St.	Dearborn St.	1056	5	3			X			X	17
Stratford Rd.	Wentworth St.	Dearborn St.	1056	5	3				X		X	17
Palm Creek Dr.	Stratford Rd.	Cul-De-Sac	528	6	2	X					X	17
Palm Creek Dr.	Stratford Rd.	Cul-De-Sac	528	5	2		X				X	17
Creek Ln.	Stratford Rd.	Cul-De-Sac	528	5	2	X					X	17
Creek Ln.	Stratford Rd.	Cul-De-Sac	528	5	2		X				X	17
East Wentworth Street	Stratford Rd.	Cul-De-Sac	1056	0	0	X					X	17
East Wentworth Street	Stratford Rd.	Cul-De-Sac	1056	6	2		X				X	17
Oxford Dr.	North End Of Street	Dearborn St.	2640	8	5			X			X	17
Oxford Dr.	North End Of Street	Dearborn St.	2640	6	4				X		X	17
Oxford Dr.	Dearborn St.	Charlotte Co. Line	5280	4	3			X			X	17
Oxford Dr.	Dearborn St.	Charlotte Co. Line	5280	4	2				X		X	17
Harwich Cir.	Dearborn St.	North End Of Street	528	5	3			X			X	17
Harwich Cir.	Dearborn St.	North End Of Street	528	6	2				X		X	17
Beverly Cir.	Dearborn St.	North End Of Street	528	0	0			X			X	17
Beverly Cir.	Dearborn St.	North End Of Street	528	3	2				X		X	17
Dearborn Street	776	Pine St. - South River Rd	4752	15	6	X					X	17
Dearborn Street	776	Pine St. - South River Rd	4752	8	5		X				X	17
Harbor Ln.	Perry St.	Dearborn St. Ext.	528	3	3			X			X	17
Harbor Ln.	Perry St.	Dearborn St. Ext.	528	3	2				X		X	17
Pine Street	Dearborn St.	Poinsettia Av.	5280	14	6			X			X	17
Pine Street	Dearborn St.	Poinsettia Av.	5280	10	4				X		X	17
Bertrend Street	Hibiscus Av.	Principiana Av.	528	0	0			X			X	17
Bertrend Street	Hibiscus Av.	Principiana Av.	528	4	2				X		X	17

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Morningside Dr	Pine St	East To #737 Morningside	1848	15	6	X					X	17
Morningside Dr	Pine St	East To #737 Morningside	1848	12	5		X				X	17
Crestwood Rd	Pine St	East End Of Pavement	3904	12	5	X					X	17
Crestwood Rd	Pine St	East End Of Pavement	3904	11	5		X				X	17
Denburn Ct	Oxford Dr	Cul-De-Sac	792	3	2	X					X	17
Denburn Ct	Oxford Dr	Cul-De-Sac	792	3	3		X				X	17
Cortes Dr	Oxford Dr	Cul-De-Sac	792	3	3	X					X	17
Cortes Dr	Oxford Dr	Cul-De-Sac	792	3	3		X				X	17
Lakeview Pl	Oxford Dr	Cul-De-Sac	1056	3	3	X					X	17
Lakeview Pl	Oxford Dr	Cul-De-Sac	1056	3	3		X				X	17
French Av.	Dearborn St	Langner St. East	528	4	2			X			X	17
French Av.	Dearborn St	Langner St. East	528	3	3				X		X	17
Langner St. East	French Av	Michigan Av	2112	9	5	X					X	17
Langner St. East	French Av	Michigan Av	2112	10	5		X				X	17
Fray St. East	Sylvania Av	Michigan Av	528	6	4	X					X	17
Fray St. East	Sylvania Av	Michigan Av	528	6	4		X				X	17
Cowles St. East	Michigan Av	Warren Av	1584	9	5	X					X	17
Cowles St. East	Michigan Av	Warren Av	1584	10	5		X				X	17
Warren Av.	Cowles St. East	Dearborn St	1320	5	3			X			X	17
Warren Av.	Cowles St. East	Dearborn St	1320	5	3				X		X	17
Euclid Av.	Dearborn St	Cowles St. East	1320	5	2			X			X	17
Euclid Av	Dearborn St	Cowles St. East	1320	5	3				X		X	17
Sylvania Av	Cowles St. East	Dearborn St	1056	7	3			X			X	17
Sylvania Av.	Cowles St. East	Dearborn St	1056	8	3				X		X	17
Michigan Av.	Cowles St. East	Dearborn St	1320	0	0			X			X	17
Michigan Av	Cowles St. East	Dearborn St	1320	10	5				X		X	17
Michigan Av.	Selma Av	Riverview Av	3904	7	3			X			X	17
Michigan Av	Selma Av	Riverview Av	3904	8	5				X		X	17
Selma Av	776	Michigan Av	1320	0	0	X					X	17
Selma Av	776	Michigan Av	1320	6	3		X				X	17
Riverview Av	Michigan Av	776	1056	6	1	X					X	17
Riverview Av	Michigan Av.	776	1056	8	4		X				X	17

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUTH SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Horton Av.	776	Orchard Ln.	1848	7	3	X					N	12
Horton Av.	776	Orchard Ln.	1848	6	4		X				N	12
Orchard Ln.	Horton Av.	North St	792	4	2			X			N	17
Orchard Ln.	Horton Av.	North St	792	5	2				X		N	17
North St	Spruce St.	776	264	8	4	X					N	17
North St.	Spruce St.	776	264	8	0		X				N	17
Spruce St	Selma Av.	North St	1320	7	3			X			N	17
Spruce St	Selma Av.	North St	1320	10	4				X		N	17
Liberty St.	Riverview Av.	Selma Av	2640	7	4			X			N	17
Liberty St.	Riverview Av.	Selma Av.	2640	6	4				X		N	17
Fray St. West	776	McCall Rd.	1320	8	4	X					N	26
Fray St. West	776	McCall Rd.	1320	7	3		X				N	26
Fray St. West	McCall Rd.	Mango St	528	3	3	X					N	26
Fray St. West	McCall Rd.	Mango St.	528	5	2		X				N	26
Fray St. West	Mango St.	Magnolia Av	528	6	3	X					N	26
Fray St. West	Mango St	Magnolia Av	528	5	3		X				N	26
Fray St. West	Magnolia Av.	Winson Av	264	4	3	X					N	26
Fray St. West	Magnolia Av.	Winson Av	264	5	3		X				N	26
Winson Av.	Green St. West	Cul-De-Sac	1320	6	3			X			N	26
Winson Av	Green St. West	Cul-De-Sac	1320	5	4				X		N	26
Cherokee St	Green St. West	End Of Street North	200	5	3	X					N	26
Cherokee St	Green St. West	End Of Street North	200	7	3		X				N	26
Green St. West	Magnolia Av	McCall Rd.	2112	6	3	X					N	26
Green St. West	Magnolia Av.	McCall Rd	2112	6	4		X				N	26
Green St. West	McCall Rd	776	1056	7	3	X					N	26
Green St. West	McCall Rd.	776	1056	6	3		X				N	26
Langsner St. West	776	Magnolia Av	2640	8	3	X					N	26
Langsner St. West	776	Magnolia Av	2640	10	2		X				N	26
Magnolia Av.	Cowles St. West	Dearborn St.	1056	9	3			X			N	26
Magnolia Av	Cowles St. West	Dearborn St.	1056	6	4				X		N	26
Cowles St. West	Magnolia Av.	776	2640	10	4	X					N	26
Cowles St. West	Magnolia Av.	776	2640	8	3		X				N	26

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
New York Av.	Dearborn St	Church Av	2640	5	7				X		X	17
New York Av	Dearborn St	Church Av	2640	4	3				X		X	17
Virginia Ct	McCall Rd	776	1320	10	4	X					X	17
Virginia Ct	McCall Rd	776	1320	5	4		X				X	17
Church Av.	776	McCall Rd	1320	8	3	X					X	26
Church Av.	776	McCall Rd	1320	8	4		X				X	26
Washington Av.	Palm Grove Av	Cowles St. West	528	6	3			X			X	26
Washington Av.	Palm Grove Av.	Cowles St. West	528	0	0				X		X	26
Palm Grove Av.	776	Mango St.	1848	10	3	X					X	26
Palm Grove Av	776	Mango St.	1848	8	3		X				X	26
Maple St. South	Cowles St. West	Palm Grove Av	528	5	3			X			X	17
Maple St. South	Cowles St. West	Palm Grove Av.	528	6	3				X		X	17
Sunset Dr.	Church Av	2nd Av	1056	12	4	X					X	26
Sunset Dr.	Church Av	2nd Av	1056	8	5		X				X	26
Alta Vista Av.	2nd Av	Church Av	792	0	0			X			X	26
Alta Vista Av.	2nd Av	Church Av	792	5	3				X		X	26
Loma Linda St	Church Av	Alta Vista Av	792	7	2			X			X	26
Loma Linda St	Church Av	Alta Vista Av	792	5	3				X		X	26
2nd Av.	776	McCall Rd.	528	12	4	X					X	26
2nd Av	776	McCall Rd	528	8	4		X				X	26
River Rd	South Tamiami Trail	Venice Av	21120	22	5	X					X	17
River Rd	South Tamiami Trail	Venice Av	21120	16	4		X				X	17
River Rd.	Venice Av.	I-75 Limited Access Line	2640	0	0	X					X	17
River Rd	Venice Av	I-75 Limited Access Line	2640	0	0		X				X	17
River Rd	Pine St	South Tamiami Trail	36960	15	6	X					X	17
River Rd.	Pine St	South Tamiami Trail	36960	18	5		X				X	17
Playmore Rd	South River Rd	Myakka Dr	2640	25	6			X			X	22
Playmore Rd.	South River Rd	Myakka Dr	2640	28	6				X		X	22
De Miranda Av.	South Tamiami Trail	Matanzas Rd	264	3	2	X					X	22
De Miranda Av.	South Tamiami Trail	Matanzas Rd	264	5	2		X				X	22
Matanzas Av.	De Miranda Av.	De Leon Dr.	1584	2	2	X					X	22
Matanzas Av.	De Miranda Av.	De Leon Dr.	1584	2	2		X				X	22

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Ortiz Bv	South Tamiami Trail	Muscogee Rd.	5280	12	5			X			N	22
Ortiz Bv	South Tamiami Trail	Muscogee Rd.	5280	8	3				X		N	22
Dorado Dr.	Ortiz Bv.	Ortega Pl.	2370	7	3	X					X	22
Dorado Dr.	Ortiz Bv.	Ortega Pl.	2370	5	4		X				X	22
Ortega Pl.	Dorado Dr.	Corsica Ln	528	5	3			X			N	22
Ortega Pl.	Dorado Dr.	Corsica Ln.	528	4	2				X		N	22
Ortega Pl.	South Tamiami Trail	Cortez Ln	1056	4	3			X			N	22
Ortega Pl.	South Tamiami Trail	Cortez Ln.	1056	4	2				X		N	22
Corsica Ln.	Ortega Pl.	San Carlos Av	1056	7	4	X					N	22
Corsica Ln.	Ortega Pl.	San Carlos Av	1056	7	3		X				N	22
San Carlos Av	Capilla Ln	Genoa Dr.	1320	8	2			X			N	22
San Carlos Av	Capilla Ln	Genoa Dr.	1320	8	2				X		N	22
San Marino Av.	Genoa Dr.	Capilla Ln.	1320	8	4			X			N	22
San Marino Av.	Genoa Dr.	Capilla Ln.	1320	8	2				X		N	22
San Marco Av	Capilla Ln	Genoa Dr.	1320	8	2			X			N	22
San Marco Av.	Capilla Ln	Genoa Dr.	1320	8	3				X		N	22
San Lorenzo Av	Genoa Dr	Capilla Ln.	1320	8	2			X			N	22
San Lorenzo Av.	Genoa Dr	Capilla Ln.	1320	8	3				X		N	22
Capilla Ln.	Ortiz Bv	San Juan Dr.	1056	7	2	X					N	22
Capilla Ln.	Ortiz Bv	San Juan Dr.	1056	8	3		X				N	22
San Juan Dr.	Dorado Dr	San Remo Av	1056	8	6			X			N	22
San Juan Dr.	Dorado Dr	San Remo Av	1056	8	3				X		N	22
San Remo Av.	Dorado Dr.	Corsica Ln	792	4	2			X			N	22
San Remo Av.	Dorado Dr	Corsica Ln	792	8	2				X		N	22
San Remo Av.	Corsica Ln.	Genoa Dr.	528	4	2			X			N	22
San Remo Av.	Corsica Ln.	Genoa Dr.	528	6	2				X		N	22
Genoa Dr	San Remo Av	West Of San Marco Av	792	9	3	X					N	22
Genoa Dr.	San Remo Av.	West Of San Marco Av	792	0	0		X				N	22
Genoa Dr.	West Of San Marco Av.	Ortiz Bv.	528	7	3	X					X	22
Genoa Dr	West Of San Marco Av	Ortiz Bv.	528	6	3		X				X	22
Saragossa Ln	Antilla Rd.	Ortiz Bv.	4224	8	4	X					N	22
Saragossa Ln	Antilla Rd	Ortiz Bv.	4224	8	3		X				N	22

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	BASIN
Saragossa Ln.	Ortiz Bv.	Granada Bv.	1848	8	3	X					X	22
Saragossa Ln.	Ortiz Bv.	Granada Bv.	1848	10	4		X				X	22
Antilla Rd.	Saragossa Ln.	Bayamo Dr.	264	6	4			X			X	22
Antilla Rd.	Saragossa Ln.	Bayamo Dr.	264	6	4				X		X	22
Bayamo Dr.	Antilla Rd.	Segovia Ct.	150	6	1	X					X	22
Bayamo Dr.	Antilla Rd.	Segovia Ct.	150	0	0		X				X	22
Segovia Ct.	Bayamo Dr.	Saragossa Ln.	150	5	0			X			X	22
Segovia Ct.	Bayamo Dr.	Saragossa Ln.	150	5	3				X		X	22
Minorca Pl.	Saragossa Ln.	Cul-De-Sac	264	5	3			X			X	22
Minorca Pl.	Saragossa Ln.	Cul-De-Sac	264	6	2				X		X	22
Ciboa Av.	Saragossa Ln.	North Of Cortez Ln	792	8	4			X			X	22
Ciboa Av.	Saragossa Ln.	North Of Cortez Ln	792	8	4				X		X	22
Palermo Ln.	Ciboa Av.	Ortega Pl.	264	7	4	X					X	22
Palermo Ln.	Ciboa Av.	Ortega Pl.	264	4	2		X				X	22
Aragon Ln.	Ortega Pl.	Ciboa Av.	528	9	4	X					X	22
Aragon Ln.	Ortega Pl.	Ciboa Av.	528	7	4		X				X	22
San Rafael Av.	Saragossa Ln.	Santo Ln.	550	6	3			X			X	22
San Rafael Av.	Saragossa Ln.	Santo Ln.	550	4	2				X		X	22
Santo Ln.	Ortega Pl.	Ronda Ln	1320	0	0	X					X	22
Santo Ln.	Ortega Pl.	Ronda Ln	1320	7	2		X				X	22
Toledo Rd.	De Leon Dr.	Marco Av.	1848	6	3			X			X	22
Toledo Rd.	De Leon Dr.	Marco Av.	1848	6	3				X		X	22
Toledo Rd.	Marco Av.	Hernando Rd	550	6	2			X			X	22
Toledo Rd.	Marco Av.	Hernando Rd	550	6	3				X		X	22
Hernando Rd.	Toledo Rd.	Antonio St	1848	6	4	X					X	22
Hernando Rd.	Toledo Rd.	Antonio St	1848	6	3		X				X	22
Hernando Rd.	Antonio St	Cul-De-Sac	2376	7	4	X					X	22
Hernando Rd.	Antonio St.	Cul-De-Sac	2376	8	3		X				X	22
Antonio St.	Hernando Rd	Muscogee Rd	1320	8	4			X			X	22
Antonio St.	Hernando Rd	Muscogee Rd	1320	7	3				X		X	22
Muscogee Rd.	De Leon Dr.	Ortiz Bv	528	8	4	X					X	22
Muscogee Rd.	De Leon Dr.	Ortiz Bv	528	0	0		X				X	22

ROADSIDE DITCHES FOR SARASOTA COUNTY

STREET NAME	FROM	TO	LENGTH	WIDT H	SLOPE DEPTH	NORTH SIDE	SOUT H SIDE	EAST SIDE	WEST SIDE	CITY	CO	Basin
Ovalando Pl.	Muscogee Rd	Margarita Av	264	8	3			X			X	22
Ovalando Pl.	Muscogee Rd	Margarita Av.	264	8	4				X		X	22
Loranza Av	Antonio St	Cul-De-Sac	2376	10	5	X					X	22
Loranza Av	Antonio St	Cul-De-Sac	2376	8	4		X				X	22
Durango Av.	Antonio St	Cul-De-Sac	2640	8	3	X					X	22
Durango Av.	Antonio St	Cul-De-Sac	2640	6	2		X				X	22
Genoa Dr.	Ortiz Bv.	Cul-De-Sac	1056	8	4	X					X	22
Genoa Dr	Ortiz Bv.	Cul-De-Sac	1056	6	3		X				X	22
Santurce Av.	Genoa Dr.	Cotorro Av.	1584	7	3			X			X	22
Santurce Av.	Genoa Dr	Cotorro Av.	1584	6	2				X		X	22
Cotorro Av	Santurce Av	Orduna Av.	528	6	3	X					X	22
Cotorro Av.	Santurce Av	Orduna Av.	528	7	4		X				X	22
Venezia Av.	Cotorro Av	Genoa Dr	1584	8	3			X			X	22
Venezia Av.	Cotorro Av	Genoa Dr.	1584	10	4				X		X	22
Orduna Av.	Genoa Dr.	Cotorro Av.	1584	8	3			X			X	22
Orduna Av	Genoa Dr.	Cotorro Av	1584	8	2				X		X	22
Orduna Av.	Cotorro Av.	Liguria Av.	528	6	3			X			X	22
Orduna Av.	Cotorro Av	Liguria Av.	528	5	2				X		X	22
Torreco St.	Cotorro Av	Majorca Pl	264	4	2			X			X	22
Torreco St.	Cotorro Av	Majorca Pl.	264	5	2				X		X	22
Zamorra Av	Majorca Pl	Trionfo Av	528	3	2			X			X	22
Zamorra Av	Majorca Pl	Trionfo Av	528	5	3				X		X	22
Trionfo Av.	Ortiz Bv	100' East Of Granada Bv.	1848	7	3	X					X	22
Trionfo Av	Ortiz Bv	100' East Of Granada Bv	1848	7	3		X				X	22
Granada Bv.	Trionfo Av	South Tamiami Trail	3696	12	6			X			X	22
Granada Bv	Trionfo Av	South Tamiami Trail	3696	10	4				X		X	22
Talavera St	Granada Bv	Espanola Dr	264	10	4	X					X	22
Talavera St.	Granada Bv	Espanola Dr	264	5	3		X				X	22
Capri St	Espanola Dr	Granada Bv	528	3	2	X					X	22
Capri St.	Espanola Dr.	Granada Bv.	528	3	2		X				X	22
Tanger St.	Granada Bv	Cul-De-Sac	528	6	3	X					X	22
Tanger St.	Granada Bv.	Cul-De-Sac	528	6	2		X				X	22

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[illegible]

MAKE INVENTORY

Herbicide Treatment Annually
Mowing Cost Annually
Inspections Annually

COUNTY OWNED AND MAINTAINED
LAKE INVENTORY

LAKE #	LAKE NAME	ACREAGE	MAINTAINED BY THE COUNTY	CONTRACTS	MONTHLY MAINTENANCE	TYPE OF MAINTENANCE	UTILITIES POWER	AERATION	SOLAR POWER	OZONE AERATION	GRASS CARP	FISH BARRIERS	ROOKERY	WEIR	BOAT RAMP	COUNTY ACCESS	PUBLIC ACCESS	UNIMPROVED BOAT RAMP	MITIGATION	REVEGETATE	LITTORAL SHELF	TYPE OF OUTLET	Herbicide Treatment Annually	Mowing Cost Annually	Inspections Annually	Supervision Annually
1001	LAKE #1	100	X																							
1002	LAKE #2	100	X																							
1003	LAKE #3	100	X																							
1004	LAKE #4	100	X																							
1005	LAKE #5	100	X																							
1006	LAKE #6	100	X																							
1007	LAKE #7	100	X																							
1008	LAKE #8	100	X																							
1009	LAKE #9	100	X																							
1010	LAKE #10	100	X																							
1011	LAKE #11	100	X																							
1012	LAKE #12	100	X																							
1013	LAKE #13	100	X																							
1014	LAKE #14	100	X																							
1015	LAKE #15	100	X																							
1016	LAKE #16	100	X																							
1017	LAKE #17	100	X																							
1018	LAKE #18	100	X																							
1019	LAKE #19	100	X																							
1020	LAKE #20	100	X																							
1021	LAKE #21	100	X																							
1022	LAKE #22	100	X																							
1023	LAKE #23	100	X																							
1024	LAKE #24	100	X																							
1025	LAKE #25	100	X																							
1026	LAKE #26	100	X																							
1027	LAKE #27	100	X																							
1028	LAKE #28	100	X																							
1029	LAKE #29	100	X																							
1030	LAKE #30	100	X																							
1031	LAKE #31	100	X																							
1032	LAKE #32	100	X																							
1033	LAKE #33	100	X																							
1034	LAKE #34	100	X																							
1035	LAKE #35	100	X																							
1036	LAKE #36	100	X																							
1037	LAKE #37	100	X																							
1038	LAKE #38	100	X																							
1039	LAKE #39	100	X																							
1040	LAKE #40	100	X																							
1041	LAKE #41	100	X																							
1042	LAKE #42	100	X																							
1043	LAKE #43	100	X																							
1044	LAKE #44	100	X																							
1045	LAKE #45	100	X																							
1046	LAKE #46	100	X																							
1047	LAKE #47	100	X																							
1048	LAKE #48	100	X																							
1049	LAKE #49	100	X																							
1050	LAKE #50	100	X																							

DATE: 10/1/2014

BY: [Signature]

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LAKE INVENTORY

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LAKE INVENTORY

[illegible]

LAKE INVENTORY

															LAKE #
															LAKE NAME
															ACREAGE
															MAINTAINED BY THE COUNTY
															CONTRACTS
															MONTHLY MAINTENANCE
															TYPE OF MAINTENANCE
															UTILITIES POWER
															AERATION
															SOLAR POWER
															OZONE AERATION
															GRASS CARP
															FISH BARRIERS
															ROOKERY
															WEIR
															BOAT RAMP
															COUNTY ACCESS
															PUBLIC ACCESS
															UNIMPROVED BOAT RAMP
															INITIATION
															REVEGETATE
															LITTORAL SHELF
															TYPE OF OUTLET
															Herbicide Treatment Annually
															Mowing Cost Annually
															Inspections Annually
															Supervision Annually

LAKE INVENTORY

ch

LAKE INVENTORY

[illegible]

100

1997-98

152

**COUNTY OWNED AND MAINTAINED
LAKE INVENTORY**

COUNTY OF LAKE INVENTORY DATE BY CHECKED BY APPROVED BY SIGNATURE DATE	LAKE #
	LAKE NAME
	ACREAGE
	MAINTAINED BY THE COUNTY
	CONTRACTS
	MONTHLY MAINTENANCE
	TYPE OF MAINTENANCE
	UTILITIES POWER
	AERATION
	SOLAR POWER
	OZONE AERATION
	GRASS CARP
	FISH BARRIERS
	ROOKERY
	WEIR
	BOAT RAMP
	COUNTY ACCESS
	PUBLIC ACCESS
	UNIMPROVED BOAT RAMP
	MITIGATION
	REVEGETATE
	LITTORAL SHELF
	TYPE OF OUTLET
	Herbicide Treatment Annually
	Mowing Cost Annually
Inspections Annually	
Supervision Annually	

SARASOTA COUNTY GOVERNMENT
TRANSPORTATION DEPARTMENT - STORMWATER MANAGEMENT DIVISION
 1901 Cattleman Road - Sarasota FL 34232-6289
 (813) 378-6148
STORMWATER Report

Report Date: August 12, 1998

DESIGN PROJECTS								
	Project (name/basin)	Level of Service Deficiency	Design % Complete	Planned Advertise Date	Construction Cost (Est.)	Construction % Complete	Construction Completion Date	Status Comments
ALLIGATOR CREEK	Brianwood Ditch	Street Flooding	0%	Apr-99	(689,000)		May-00	1
	Golf Club Lane	Street Flooding	100%	Jun-97	98,343	95%	Jul-98	6
	Dolphin Lakes	Structure/Street Flooding	100%	May-97	1,087,883	100%	Jul-98	6
	Tundra Road	Street Flooding	50%	Oct-98	(183,000)		Aug-99	1
COASTAL	Albee Road	Structure Flooding	0%	Nov-99	(310,000)		Sep-00	2
	N. Manasota Amended	Structure Flooding	0%	Feb-99	(100,000)		Dec-99	2
	Pine Harrier	Structure Flooding	0%	Apr-99	(140,000)		Feb-00	2
	S. Manasota Beach Rd.	Structure Flooding	0%	Apr-99	(100,000)		Feb-00	2
FORKED CREEK	Gulf View Estates Outfall	Structure/Street Flooding	0%	Jan-99	(817,000)		Jan-00	1
GOTTFRIED	S. River Rd. Improvements	Structure/Street Flooding	0%	Jul-99	(331,000)		May-00	2
	N. Englewood Lateral	Structure Flooding	0%	May-99	(230,000)		Mar-00	2
	SR 776 Culvert	Structure Flooding	0%	Dec-98	(450,000)		May-99	1
HUDSON BAYOU	Arlington Canal Bypass*	Structure/Street Flooding	90%	Oct-98	(597,000)		Oct-99	1
	East Avenue Main SL to Ringling*	Street Flooding	100%	Oct-98	(118,000)		Aug-99	4
	Euclid Ave. @ Courtland*	Street Flooding	100%	Dec-97	118,461	95%	Aug-98	6
	School Detention*	Water Quality	75%	Jan-99	(851,000)		Jan-00	1
MATHENY CREEK	Breakwater Branch	Structure Flooding	75%	Dec-98	(845,000)		Jan-00	1
	Clark Road	Structure Flooding	50%	Dec-98	(250,000)		Oct-99	1
	Coral Lakes	Structure Flooding	95%	Nov-98	(170,000)		Sep-99	1
	Lower Denham	Structure Flooding	0%	Apr-99	(703,000)		May-00	1
	Mohawk Lake	Structure Flooding	50%	Oct-98	(140,000)		Aug-99	1
	Siesta Heights	Structure Flooding	30%	Dec-98	(137,000)		Oct-99	1
	Williamsburg Branch	Structure Flooding	30%	Feb-99	(285,000)		Dec-99	1
NORTH CREEK	Gay Street	Structure Flooding	15%	Nov-98	(350,000)		Sep-99	1
	Osprey Acres	Structure Flooding	90%	Nov-98	(220,000)		Sep-99	1

DESIGN PROJECTS								
	Project (name/basin)	Level of Service Deficiency	Design % Complete	Planned Advertise Date	Construction Cost (Est.)	Construction % Complete	Construction Completion Date	Comments
PHILIPPI CREEK	Branch BA Regional	Structure Flooding	0%	Jul-99	(2,000,000)		Nov-00	3
	Celery Fields - Phase 2	Structure Flooding	100%	Feb-97	10,000,000	72%	Jan-99	6
	Celery Fields - Phase 3	Mitigation Bank	60%	Nov-98	(2,100,000)		Mar-00	1
	Colonial Gables	Street Flooding	100%	Aug-98	(90,000)		May-99	4
	Hyde Park	Street Flooding	80%	Oct-98	(180,000)		Aug-99	1
	Lake Mallard	Street Flooding	75%	Oct-98	(222,000)		Aug-99	1
	Levee Project	Structure Flooding	0%	Nov-99	(3,100,000)		Dec-00	2
	Main B Regional	Structure Flooding	50%	Nov-98	(2,250,000)		Mar-00	1
	Oakhurst Condo	Street Flooding	80%	Jan-99	(100,000)		Jul-99	1
	Philippi Shores	Street Flooding	100%	May-97	112,507	95%	Jul-98	6
	Redbug Slough	Structure Flooding	60%	Dec-98	(1,300,000)		Apr-00	1
	South Leewyn	Structure Flooding	0%	Apr-99	(150,000)		Feb-00	1
	Sunnyside Lane	Street Flooding	95%	Sep-98	(116,000)		Jun-99	1
SOUTH CREEK	South Creek Restoration	Water Quality	30%	Oct-99	(1,412,000)		Feb-01	3
WHITAKER	Leon & Noble Avenue*	Structure Flooding	100%	Jun-98	(157,000)	0%	Jan-99	6
	Newtown Canal 3-2*	Structure Flooding	65%	Nov-98	(705,000)		Dec-99	1
* Located Partially or Wholly in City of Sarasota								

OTHER PROJECTS							
	Project (name/basin)	Design % Complete	Planned Advertise Date	Construction Cost (Est.)	Construction % Complete	Construction Completion Date	Comments
COASTA	Baywood	60%	N/A	(75,000)			1,8
	Caribbean Drive	100%	Nov-98	(34,000)			1
	Landings	0%	N/A	(100,000)			1,8
	Cornelius Circle	80%	Dec-98	(16,000)			1

COMMENTS	
1. Design in progress	6. In construction
2. Design contract pending	7. Construction complete
3. Preliminary study in progress	8. Construction by Department
4. Advertisement for construction pending	
5. Construction contract pending	

BASIN MASTER PLANS			
PROJECT	1 st PUBLIC MEETING	2 nd PUBLIC MEETING	FINAL REPORT TO BCC
Ainger Creek	5/29/97	08/20/98	8/29/98
Cow Pen Slough	6/10/97	TBA	2/16/99
Curry Creek	11/13/997	TBA	1/26/99
Fox Creek	10/6/97	Sept-98	10/27/98
Hatchett Creek	11/13/97	TBA	1/26/99
Holiday Bayou	6/30/97	Sept -98	10/6/98
North Creek	10/20/97	TBA	11/24/98
South Creek	10/20/97	TBA	11/24/98
St. Armand's	Sept-98	TBA	TBA
Whitaker	Oct-98	1999	4/27/99
Woodmere	Sept-98	TBA	12/29/98

CURRENT MAINTENANCE PROJECTS	
LOCATION	PROJECT
Constitution Blvd. @ Waneta Place	Repair joints in 30" storm drain
MacEachen Blvd. & Helene St.	Replace collapsed 18" storm drain
Olympic St. & Lockwood Ridge Rd.	Driveway pipe replacement
Vamo Area	Clean roadside ditches & culverts
Sara Lakes Estates	Pipe installation & ditch grading
Englewood Farm Acres	Pipe replacement
Anglin Drive	Seawall replacement



The Environmental Protection Plan

Adopted by Ordinance #98-4061

November 10, 1998

INTENT AND PURPOSE

The City of Sarasota has an abundance of natural resources, including Sarasota Bay, and a diversity of associated habitats and species. Since the early 1970's, there has been increasing interest both nationally and locally about preserving and protecting the environment. The intent of the Environmental Protection Chapter is to maintain and enhance the environment in the City of Sarasota, seek a balance between man-made and natural systems, and provide adequate measures to protect life and property from natural disasters. The foundation for this Chapter are Sarasota's Defining Principles and Florida statutory requirements.

Sarasota's Defining Principles

In 1996, under the leadership of the City Commission, a set of principles - **Sarasota's Defining Principles** - emerged from a series of public discussions and debates. These principles have been expressed in the City's "vision" and "goal" statements. The Environmental Protection Plan has been shaped by these principles. Two of these defining principles have particular relevance to this Chapter:

"To be a safe place for people."

In the short and medium-term the section in this chapter on Hurricane Vulnerability and Disaster Preparedness has relevance to City residents' safety. From a long-term, global perspective, all of the issues of this chapter may be the most important to our safety and survival.

"To be an attractive, clean and aesthetically pleasing city."

Sarasota's natural environment is clearly primary and critical to the City's attractiveness and aesthetic quality.

It is the intent of the Environmental Protection Plan to pursue actions that further Sarasota's Defining Principles.

Florida Statutory Requirements

The Environmental Protection Chapter is also intended to meet the requirements as outlined in Chapter 9J-5 of the State of Florida Administrative Code. This chapter addresses the issues and recommendations contained in the Evaluation and Appraisal Report (EAR), in accordance with State requirements, and which was adopted by the City Commission on June 5, 1996.

Organization of the Environmental Protection Plan

Since the coastal and inland environmental systems are closely related, the City has combined the Coastal Management Chapter and Conservation Chapter, both required by the Local Government Comprehensive Planning and Land Development Regulation Act, into this Chapter titled "Environmental Protection". The Environmental Protection Plan consists of two goals followed by objectives and action strategies pursuant to these goals.

The Environmental Protection Plan is organized around objectives addressing the following topics:

- Objective 1. Compliance with Existing Regulations;
- Objective 2. Historic and Archeological Resources in the Coastal Area;
- Objective 3. Land Uses Compatible with Coastal Resources;
- Objective 4. Reduction of Exposure to Natural Disasters; and,
- Objective 5. Safe Evacuation and Adequate Shelter during Natural Disasters.

The Environmental Protection Plan is one of the nine plans which collectively represent the Sarasota City Plan. This Plan can neither stand alone nor be interpreted independent of the others.

Implementation of the Sarasota City Plan

Implementation of the Sarasota City Plan will require actions by both the public and private sectors. In this regard many of the plan components speak to "the City" pursuing certain actions to:

promote, provide, consider, identify, enhance, create, maintain, conserve, support, reduce, discourage, coordinate, and employ.

While these actions may be initiated by City government itself, City government will also be expecting applicants seeking development approvals to pursue these same type of actions as part of their applications.

GOALS, OBJECTIVES AND ACTION STRATEGIES

Goal 1

It shall be the goal of the City of Sarasota to protect, maintain, enhance, and, where appropriate, restore its natural environment.

Objective 1 - Compliance with Existing Regulations

The City shall continue the administration, enforcement, and compliance with existing regulations and policies.

Action Strategies

- 1.1 **Requests for Development Approval:** During the review of requests for both public and private development approval, the City shall ensure that applications are consistent with the relevant environmental components of this comprehensive plan, and the most recently adopted and applicable local, regional, state, and federal plans and regulations. These shall include, but are not limited to, the City's:

- Land Development Regulations;
- Tree Protection Ordinance (89-3344);
- Engineering Design Criteria Manual (Ordinance 89-3278);
- Storm Water Basin Master Plan (1987);
- the City Code; and,
- other plans and regulations, such as:
 - o Sarasota Bay National Estuary Program's "Comprehensive Conservation and Management Program for Sarasota Bay" (1995)
 - o Charlotte Harbor National Estuary Program;
 - o Southwest Florida Water Management District's "Water Shortage Plan." (Chapter 40D-21, Florida Administrative Code); and

- o Environmental Resource Permitting of Surface Water Management Systems, administered by the Southwest Florida Water Management District, (Chapters 40D-4, 40D-40, 40D-45 and 40D-400, Florida Administrative Code). These permitting requirements address but are not limited to construction, alteration, or operation of surface water management systems.

This Plan recognizes that each request for development approval is unique in terms of location, use, intensity and, therefore, its potential impact upon natural resources. Since approval of some required permits occurs at various stages a finding of consistency with some regulations may occur after site and/or subdivision planning is complete. However, in no instance shall an occupancy permit be issued until all relevant environmental permits and approvals have been granted.

"Development approval" means approval of rezonings, conditional uses, site plans, and subdivision plats.

- 1.2 **Coordination with Public Agencies:** The City shall coordinate its activities with other relevant public agencies in the protection, enhancement, and restoration of natural resources.
- 1.3 **Specific Natural Resource Protection Initiatives - Water:**

In addition to regulations listed in this action strategy, the City will continue to support and comply with all applicable county, state and federal laws to protect water.

Water Resources: The quality of water resources shall continue to be protected in accordance with the Sarasota City Code.

Wellfield Protection: All development shall demonstrate that it will not pose a pollution hazard to potable water well fields pursuant to any applicable federal, state, county or city regulations.

Potable Water Protection: The City shall coordinate with Sarasota and Manatee Counties to ensure protection of the City's potable water sources and groundwater recharge areas pursuant to the Sarasota County Wellhead Protection Ordinance #92-079, or Manatee County Zoning Ordinance Section 738 (Groundwater/Wellhead Protection), and the Florida Department of Environmental Protection Rule 62-521 that became effective in July of 1995. The purpose of these regulations includes, but is not limited to, the following:

- Establishment of wellhead protection areas around the wellheads; and
- Restriction and regulation of activities within the wellhead protection areas which could contaminate the wellfield such as:
 - ◊ wastewater treatment facilities,
 - ◊ phosphate mining,
 - ◊ solid waste facilities,
 - ◊ uses that generate or store hazardous materials, and
 - ◊ uses which employ chemical storage tanks above or below ground.

Bay Restoration: The City shall continue to conserve and protect the quality of water resources including the restoration of Sarasota Bay and its tributaries to comply with applicable state and federal water quality standards by 2010. This will be accomplished through the application and enforcement of the local, state and federal plans and regulations listed in Action Strategy 1.1 of this Chapter and compliance with U.S. Environmental Protection Agency, National Pollutant Discharge Elimination System Permit No. FLS000004. The provisions of this permit address but are not limited to the following:

- litter control and disposal;
- street sweeping;
- construction, operations and maintenance of storm water facilities;
- operations and maintenance of solid waste transfer facilities;
- employee training and licensing programs related to herbicides, pesticides and fertilizers;
- inspections for illegal dumping;
- programs related to oil recycling and the proper disposal of hazardous waste; and
- public education.

The City shall also comply with the Environmental Resource Permitting of Surface Water Management Systems, administered by the Southwest Florida Water Management District, (Chapters 40D-4, 40D-40, 40D-45 and 40D-400, Florida Administrative Code). These permitting requirements address but are not limited to construction, alteration, or operation of surface water management systems.

Reclaimed Water: The City shall continue to pursue urban and agricultural reuse of reclaimed domestic wastewater as the City's primary method of wastewater disposal.

Wastewater Discharge: The City shall operate the City Wastewater Treatment Plant in accordance with any permits required for its operation.

Stormwater Runoff: The quality and quantity of storm water runoff shall continue to be regulated in accordance with the "Engineering Design Criteria Manual" in order to protect the quality of receiving water bodies.

Water Conservation: The City shall cooperate with the Southwest Florida Water Management District in water conservation programs developed through the water use permit process.

Water Shortage Plan: The City shall support the Southwest Florida Water Management District Water Shortage Plan pursuant to Chapter 40D-21, Florida Administrative Code (F.A.C.), as may be amended, in the event a water shortage is declared.

National Estuary Program: The City shall continue to support the Sarasota Bay National Estuary Program.

Stormwater Utility: The City shall continue to participate in the Sarasota County Stormwater and Environmental Utility or develop and fund its own stormwater utility.

Charlotte Harbor: The City shall support the Charlotte Harbor National Estuary Program.

1.4 Specific Natural Resource Protection Initiatives - Vegetation:

Tree Protection: Trees, including mangrove stands, shall be protected with the exception of certain exotic pest species identified pursuant to the Sarasota City Code.

Nuisance Trees: The City's Land Development Regulations will identify nuisance trees and will describe criteria and measures for their removal.

Tree Protection Ordinance: The City shall review the Tree Protection ordinance and propose any necessary revisions to insure it is achieving the intended purpose.

Street Tree Program: To support the "Street Tree Program" as a means of urban beautification with a focus on street trees, the Public Works Department shall:

- Inventory the need for street trees;
- Prepare a guide for selection, planting procedures, and care for street trees; and,
- Coordinate with appropriate City departments to incorporate the Street Tree Program into the Sarasota City Plan.

Florida Yards and Neighborhoods Program: The City shall support the Florida Yards and Neighborhoods Program.

Native Habitat Restoration and Management: The City will explore the creation of a native habitat restoration and management strategy.

- 1.5 **Specific Natural Resource Protection Initiatives - Wetlands:** The City will continue to support and comply with applicable regulations which protect wetlands. The applicable regulations shall include, but not be limited to, the most recently adopted and applicable documents, as may be amended, listed in Action Strategy 1.1 of this Environmental Protection Plan.
- 1.6 **Specific Natural Resource Protection Initiatives - Wildlife/Wildlife Habitats:** The City will continue to support and comply with applicable regulations which protect fisheries, wildlife and wildlife habitats.
- 1.7 **Sea Turtle Protection:** The City shall pursue the creation of a sea turtle protection ordinance, with consideration given to protection of sea turtles, impacts on the City's budget, costs to existing and proposed development, and enforceability.
- 1.8 **Specific Natural Resource Protection Initiatives - Hazardous Wastes:**

Hazardous Wastes: The City will continue to support and comply with regulations applicable to the collection and disposal of hazardous waste.

Hazardous Wastes: The City will cooperate with Sarasota County in the Amnesty Days program to collect and safely dispose of hazardous wastes.
- 1.9 **Specific Natural Resource Protection Initiatives - Air:** Activities which generate air contaminants shall be regulated pursuant to the Sarasota City Code. The City shall continue to support and comply with all applicable county, state and federal laws to protect air quality. This City will also support Sarasota County's efforts to monitor ambient air quality.
- 1.10 **Specific Natural Resource Protection Initiatives - Aircraft Noise:** The City shall continue to coordinate with and monitor the Sarasota-Bradenton Airport Noise Compatibility Program and its recommended land use strategies. The City will support the establishment of a new noise monitoring station in Newtown if, in the future, the Newtown community becomes included in the airport's 65+ DNL noise contour. In that event, the City and Airport Authority will jointly develop a noise mitigation strategy.

1.11 Specific Natural Resource Protection Initiatives - Dredging:

Dredge Spoil Sites within the City: The City will allow the disposal of dredge material within the City limits for the renourishment of Lido Beach, subject to approval by the City.

Dredge Spoil Sites Outside the City: The City shall coordinate with the West Coast Inland Navigation District and the Soil and Water Conservation Service and other appropriate state and federal agencies, nearby local governments and counties, and the public in identifying dredge spoil disposal sites. A dispute resolution process shall be adopted based on the Coastal Resources Interagency Management Committee process.

Whitaker Bayou Dredging: To mitigate potential environmental impacts and prevent the dispersion of existing sediments and any possible deposits of heavy metals in Whitaker Bayou, the City or other applying agency will secure all required permits prior to any potential dredging for navigation or flood control purposes.

Objective 2 - Historical and Archeological Resources in the Coastal Area

The City's Historic Preservation program shall continue to identify historic and archeological resources in the coastal area and to promote the conservation and restoration of said resources through site plan review.

Objective 3 - Land Uses Compatible with Coastal Resources

The City shall continue to provide for land uses that are compatible with coastal resources.

Action Strategies

- 3.1 Water-Dependent/Related Uses:** Water-dependent and water-related uses which are consistent with the Future Land Use Map shall be given priority in the development/redevelopment of land adjacent to the coastline.

- 3.2 **Shorelines:** Performance standards for shoreline development, including the siting of docks and marinas, shall be provided for in the Land Development Regulations. The City shall coordinate with the appropriate federal, state, and county agencies to retain primary authority over private docks, seawalls, and shoreline alteration, pursuant to the Land Development Regulations. Appropriate members of City staff will communicate as necessary with officials from federal, state, and local agencies as needed. Regulatory and other methods will then be determined.
- 3.3 **Shoreline Land Use:** Recognizing that the City of Sarasota is a nearly built-out city and that it is not a port city, the Future Land Use Map, related Future Land Use Plan action strategies, and other relevant action strategies contained in this Sarasota City Plan will guide shoreline land use decisions.
- 3.4 **Shoreline Pedestrian Access:** The City will develop provisions in the Land Development Regulations to require property owners to provide for public, pedestrian access parallel to the shore (through easements and appropriate walkway structures), in the event that shore hardening is permitted and constructed along the shore.
- 3.5 **Impervious Surface Area:** The City shall explore reducing the amount of existing impervious surface in the Sarasota Bay watershed and seek alternatives for reducing impervious surface area in future development.
- 3.6 **Resource Preservation:** The City will continue to preserve and protect naturally occurring habitats, such as beaches, dunes, seagrass beds and coastal vegetation.

Goal 2

It shall be the goal of the City of Sarasota to protect life and property in the coastal area from destruction by natural disasters.

Objective 4 - Reduction of Exposure to Natural Disasters

The City, working in cooperation with the Sarasota County Department of Emergency Management, shall continue to reduce the exposure of life and property to natural disasters and discourage population concentrations in the coastal high hazard area.

- 4.3 **Federal Emergency Management Act (FEMA):** The City will continue to participate in the Federal Emergency Management Act Community Rating Systems (CRS) Program, which involves meeting higher than minimum FEMA standards. The CRS program includes but is not limited to:
- the City's adopted flood plain management program which deals with strategies to lessen flooding and respond to emergencies; and
 - annual reports to the CRS Program on the City's progress, and effects of any storms.
- 4.4 **Building Department Procedures:** The City shall consider procedures recommended by the Insurance Service Organization, which reviews and rates Building Department procedures. If recommendations are found to be feasible, the Building Department will develop strategies for implementation.
- 4.5 **Peacetime Emergency Plan:** The City shall employ the hazard mitigation annex of the Peacetime Emergency Plan, the purpose of which includes, but is not limited to:
- assigning responsibilities and establishing procedures for governmental agencies, volunteer agencies, and individuals, in preparing for and executing evacuation of designated areas of Sarasota;
 - relocation of coastal residents, residents of mobile home parks, and residents of low-lying areas subject to flooding; and
 - providing maximum warning time possible to residents of those areas which are deemed to be in danger.
- 4.6 **Coastal Property Acquisition:** The City will consider measures, including the acquisition of coastal property subject to frequent damage during natural disasters, to reduce the exposure of life and property to future disasters.
- 4.7 **Post-Disaster Redevelopment Plan:** Immediately following each major disaster, the City shall evaluate the Damage Assessment Team and Damage Survey Team reports (as required by the Peacetime Emergency Plan) and develop a specific post-disaster redevelopment plan in coordination with the Sarasota County Department of Emergency Management. The intent of the post-disaster redevelopment plan will be to repair damaged infrastructure needed for health and safety; to coordinate long term recovery operations to City infrastructure and public structures; and aid the City's economy to return to pre-disaster competitive status. The plan will include funding and staffing estimates, set priorities for post disaster efforts, and develop criteria for deciding the order of importance in which the elements of the City's economy are to be aided.

- 4.8 **Public Fund Expenditures In Coastal High Hazard Area:** Prior to locating new public facilities or public infrastructure in the coastal high hazard area (CHHA), alternative locations outside of the CHHA shall be explored and evaluated. The expenditure of public funds on infrastructure in the CHHA shall be limited to:
- New public facilities and public infrastructure which can not feasibly be located outside of the CHHA;
 - Restoration, maintenance, enhancement, relocation, mitigation, or replacement of the following:
 - ◊ Natural resources;
 - ◊ Passive recreation facilities;
 - ◊ Facilities and uses which further the land uses on the Future Land Use Map;
 - ◊ Facilities necessary to ensure the health, safety, and welfare of the public or sustain the financial integrity of the City. Examples of such facilities include, but are not limited to: Police stations, fire stations, medical facilities, bridges, roads, public rest rooms, performing arts centers, and auditoriums.
- 4.9 **Limitations on Rebuilding:** The City will define in the Land Development Regulations provisions that limit and/or prohibit the reconstruction of certain non-conforming structures or nonconforming portions of structures in the event that they are destroyed to an extent of more than fifty percent of their replacement value at the time of destruction.
- 4.10 **Minimizing the Risks of Natural Disasters:** The City will coordinate with Sarasota County in the development of a Local Mitigation Strategy (LMS) as outlined by the Florida Department of Community Affairs, for the purpose of minimizing the risks of natural disasters. The LMS will include an assessment of vulnerabilities to natural disasters and mitigate initiatives to minimize risks. The City will adopt appropriate LMS initiatives upon completion of the LMS.
- 4.11 **Renourishment of the City's Beaches:** The City shall pursue grants and other funding sources to assist in the renourishment of the City's beaches for the protection of public and private property.

Objective 5 - Safe Evacuation and Adequate Shelter during Natural Disasters

The City shall continue to provide for safe evacuation and adequate shelter during natural disasters.

Action Strategy

5.1 **Evacuation:** The City shall cooperate with Sarasota County through the Peacetime Emergency Plan to:

- ensure orderly evacuation in the event of a natural disaster;
- reduce evacuation times in conjunction with the Sarasota County comprehensive plan; and
- increase the amount of shelter space available;
- periodically review the city-wide Emergency Plan.

ATTACHMENT 1

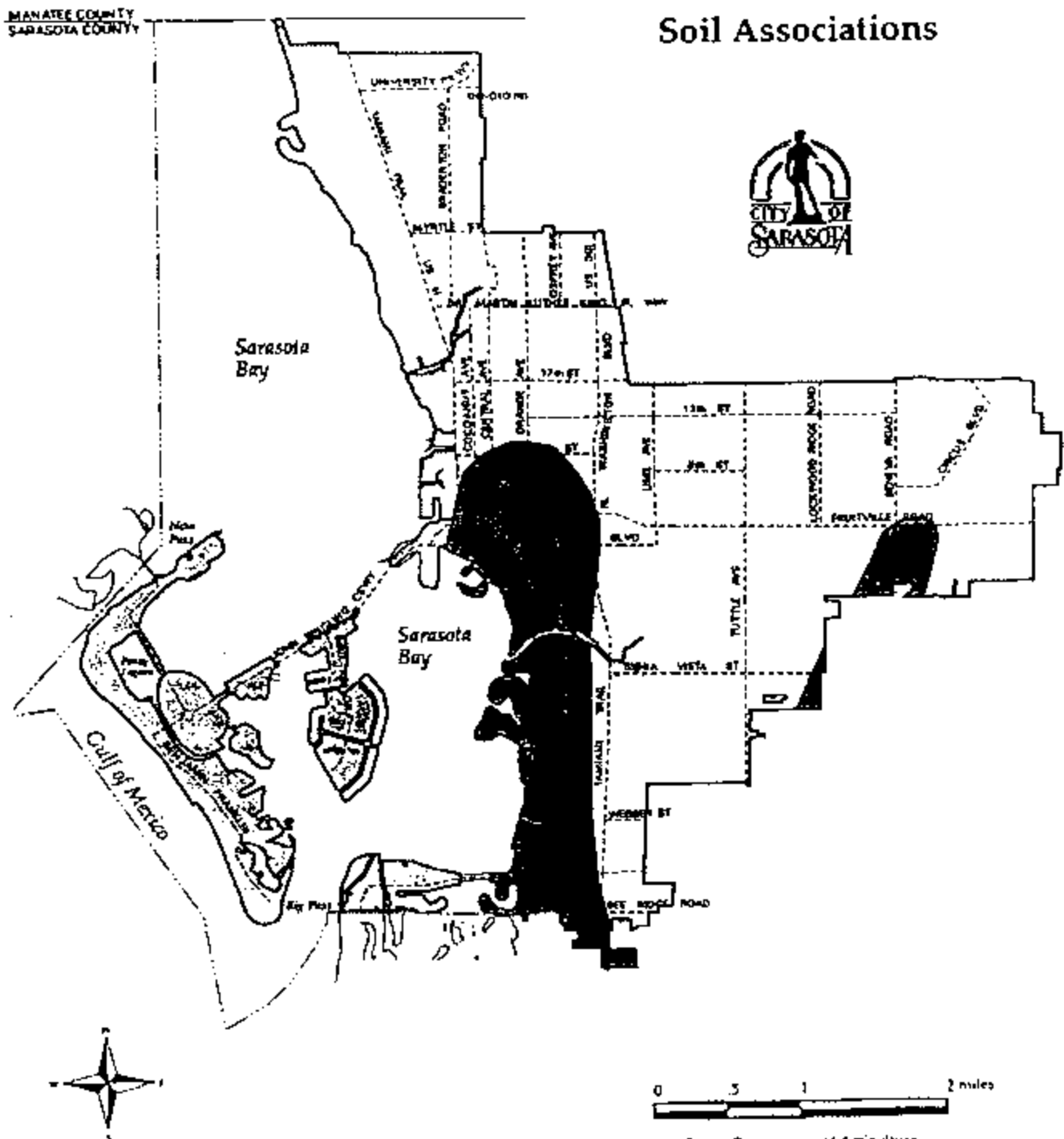
Environmental Protection Illustrations

The following Environmental Protection Illustrations, which may be consolidated or reformatted by resolution of the City Commission, are part of the Future Land Use Map Series:

- EP-2 Major Wetlands Map;
- EP-3 Soil Associations Map;
- EP-4 Floodplains Map;
- EP-5 Natural Habitats Map;
- EP-6 Threatened and Endangered Species (table);
- EP-7 Important Seagrasses, Green Algae and Endangered Plants (table);
- EP-10 Shoreline Conditions; and,
- EP-11 Hurricane Storm Categories

Illustration EP-3

Soil Associations



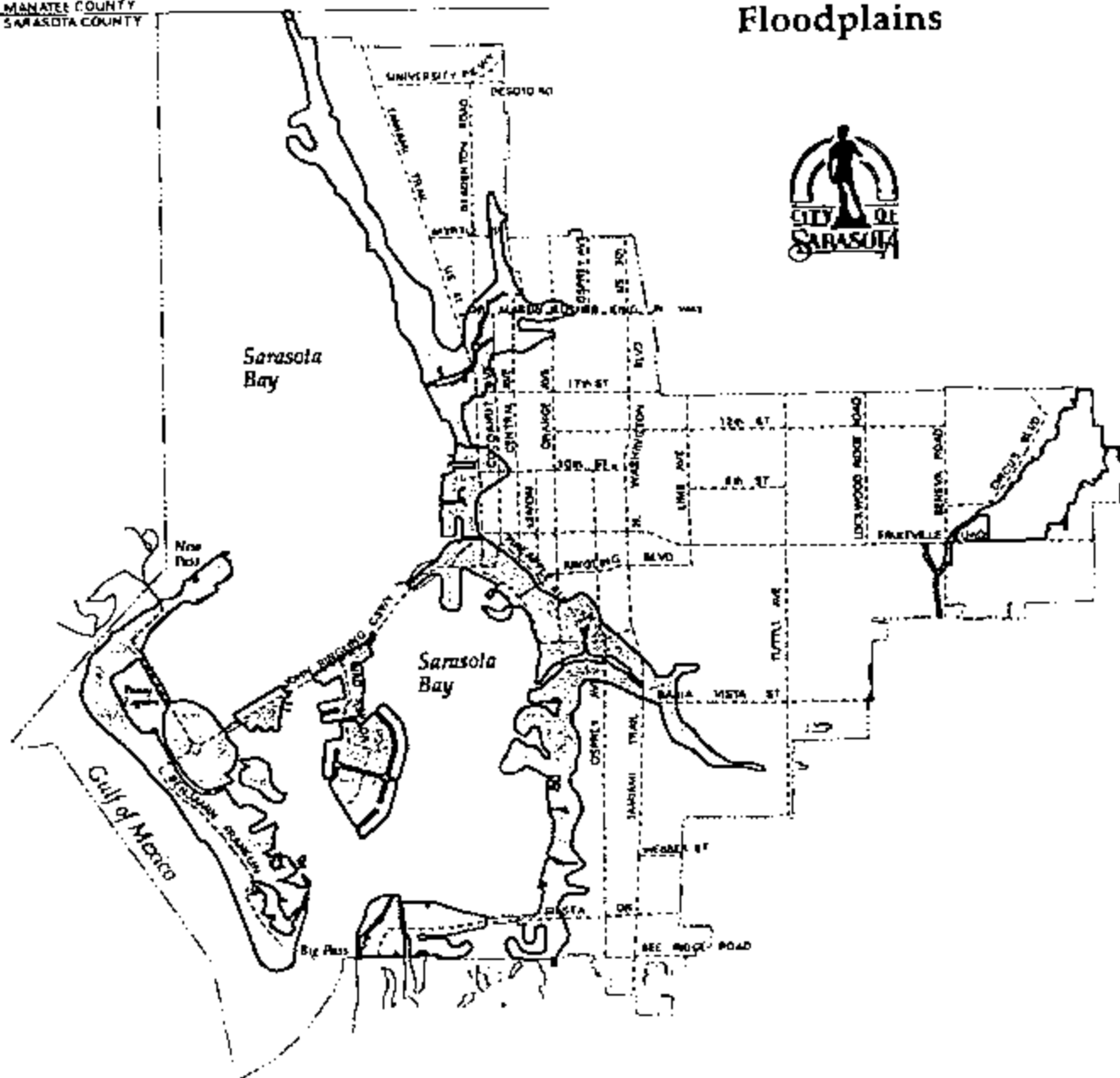
Soil Associations

- Canaveral-Beaches-Kesson
- Eaughallie-Myakka-Holopaw-Pineda

Pomello-Myakka-Eaugallie

Illustration EP-4

Floodplains

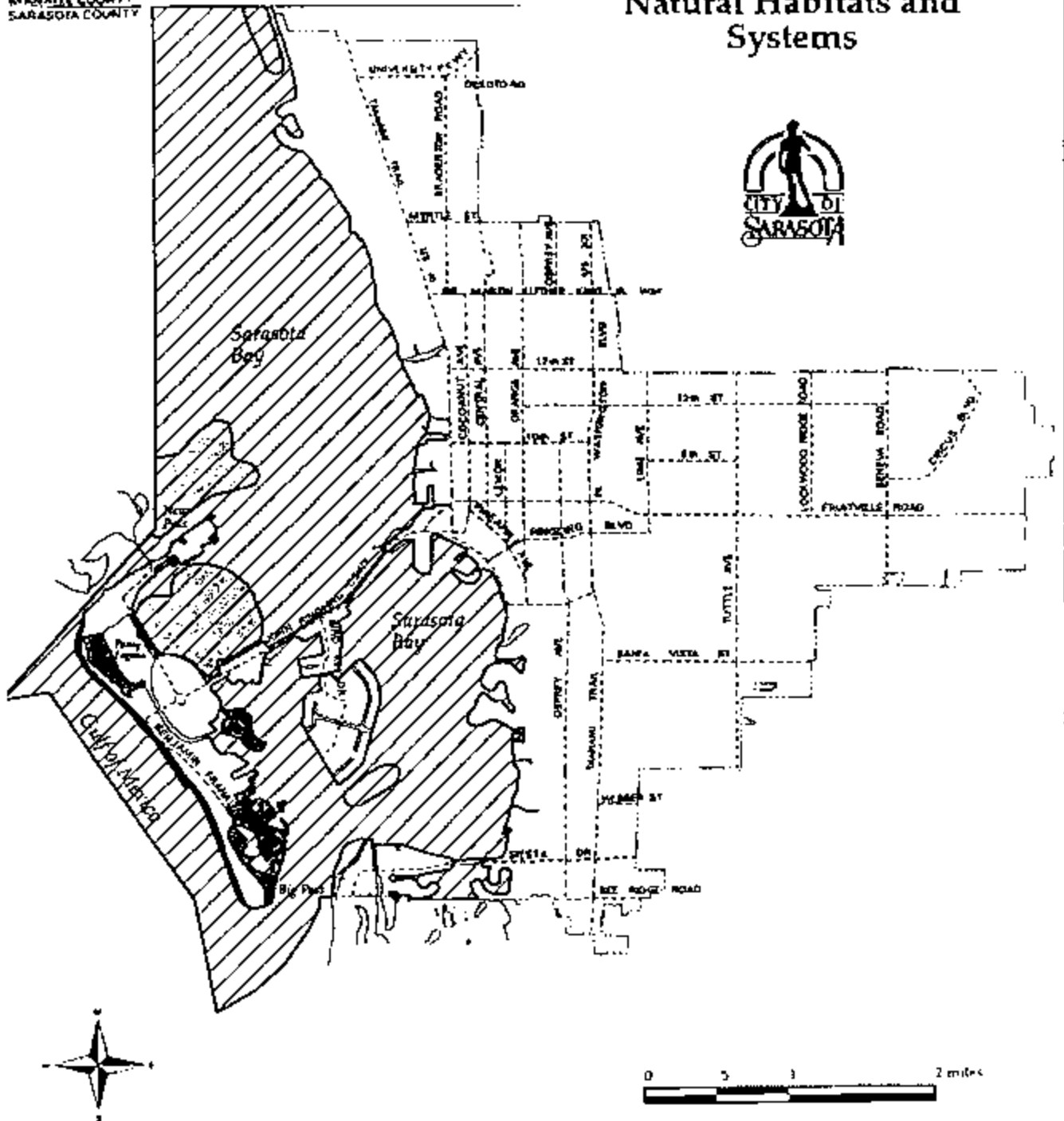
MANATEE COUNTY
SARASOTA COUNTYSource: Federal Emergency Management Agency.
Flood Insurance Rate Maps, 1996

Floodplains

A and V Zones

Illustration EP-5 Natural Habitats and Systems

MANATEE COUNTY
SARASOTA COUNTY



Natural Habitats and Systems

Sea Turtle Nesting Beach	Mangroves	Bird Habitats
Seagrass Bed	Manatee Siting Areas	

Source: City of Sarasota Planning Department 1997

Illustration EP-6. Threatened and Endangered Species

Common Name	Scientific Name	USFWS Status	FGFWFC Status
West Indian manatee	<i>Trichechus manatus</i>	E	E
Arctic peregrine falcon	<i>Falco peregrinus tundrius</i>		E
Wood stork	<i>Mycteria americana</i>	E	E
American alligator	<i>Alligator mississippiensis</i>	TSA	SSC
Atlantic Loggerhead turtle	<i>Caretta caretta</i>	T	T
Eastern indigo snake	<i>Drymarchon corais couperi</i>	T	T
Piping plover	<i>Charadrius melodus</i>	T	T
Bachman's warbler	<i>Vermivora bachmanii</i>	E	E
Bald eagle	<i>Haliaeetus leucoccephalus</i>	T	T
Florida scrub jay	<i>Aphelocoma coerulescens</i>	T	T
Green turtle	<i>Chelonia mydas mydas</i>	E	E
Atlantic ridley turtle	<i>Lepidochelys kempi</i>	E	E
Gopher Tortoise	<i>Gopherus polyphemus</i>		SSC

Notes:

USFWS = United States Fish and Wildlife Service

FGFWFC = Florida Game and Fresh Water Fish Commission

E = endangered

T = Threatened

TSA = Threatened due to similarity in appearance

SSC = Species of special concern

Source: Florida's Endangered Species, Threatened Species and Species of Special Concern, Official Lists. Published by the Bureau of Nongame Wildlife, Division of Wildlife, Florida Game and Fresh Water Fish Commission. April 1996.

Illustration EP-7. Important Seagrasses, Green Algae, and Endangered Plants

	Scientific Name	Common Name
Seagrasses:	<i>Thalassia testudinum</i>	turtle-grass
	<i>Syringodium filiforme</i>	manatee-grass
	<i>Ruppia maritima</i>	widgeon-grass
	<i>Halophila engelmannii</i>	star-grass
	<i>Halophila decipiens</i>	paddle-grass
	<i>Halophila wrightii</i>	shoal-grass
Green Algae:	<i>Caulerpa prolifera</i>	
	<i>Caulerpa ashmeadii</i>	
	<i>Caulerpa mexicana</i>	
	<i>Caulerpa racemosa</i>	
	<i>Caulerpa cupressoides</i>	
	<i>Halimeda opuntia</i>	
Endangered Plants:	<i>Suriana maritima</i>	bay cedar, thatch leaf, a beach shrub
	<i>Ernodea littoralis</i>	beachcreeper, common ernodea
	<i>Opuntia stricta</i>	shell mound prickly-pear, common prickly-pear
	<i>Scaevola plumieri</i>	inkberry

Source: Mote Marine Laboratory, 1997, which also referenced the following publications.

Rare and Endangered Diota of Florida, multiple volumes published by the University Press of Florida.

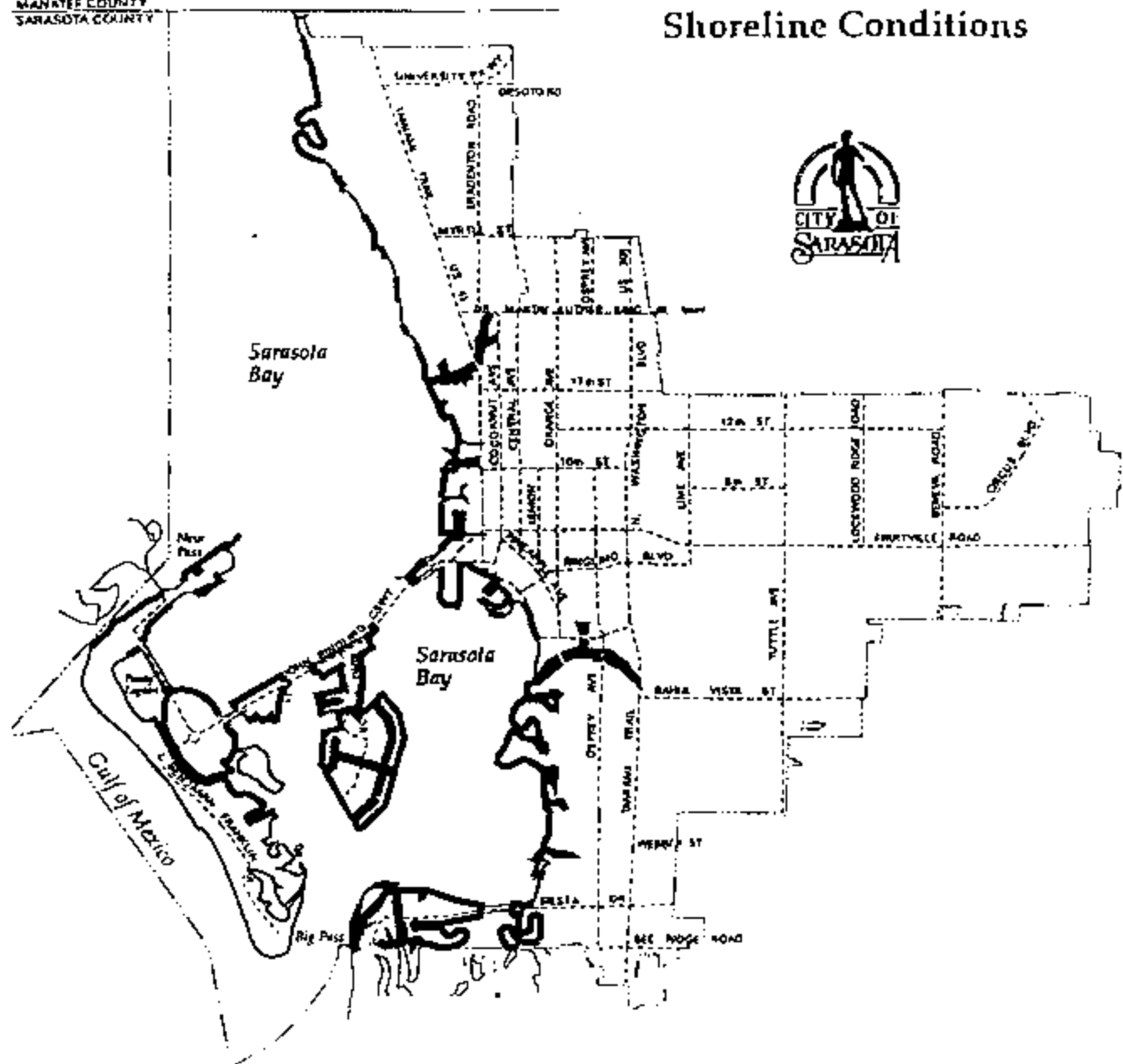
Florida's Endangered Species, Threatened Species and Species of Special Concern, Bureau of Nongame Wildlife, Division of Wildlife, Florida Game and Fresh Water Fish Commission (FGFWFC).

Notes on Florida's Endangered and Threatened Plants, Bureau of Entomology, Nematology and Plant Pathology-Botany Section, Contribution No. 39. Florida Department of Agriculture and Consumer Services.

Illustration EP-10

Shoreline Conditions

MANATEE COUNTY
SARASOTA COUNTY

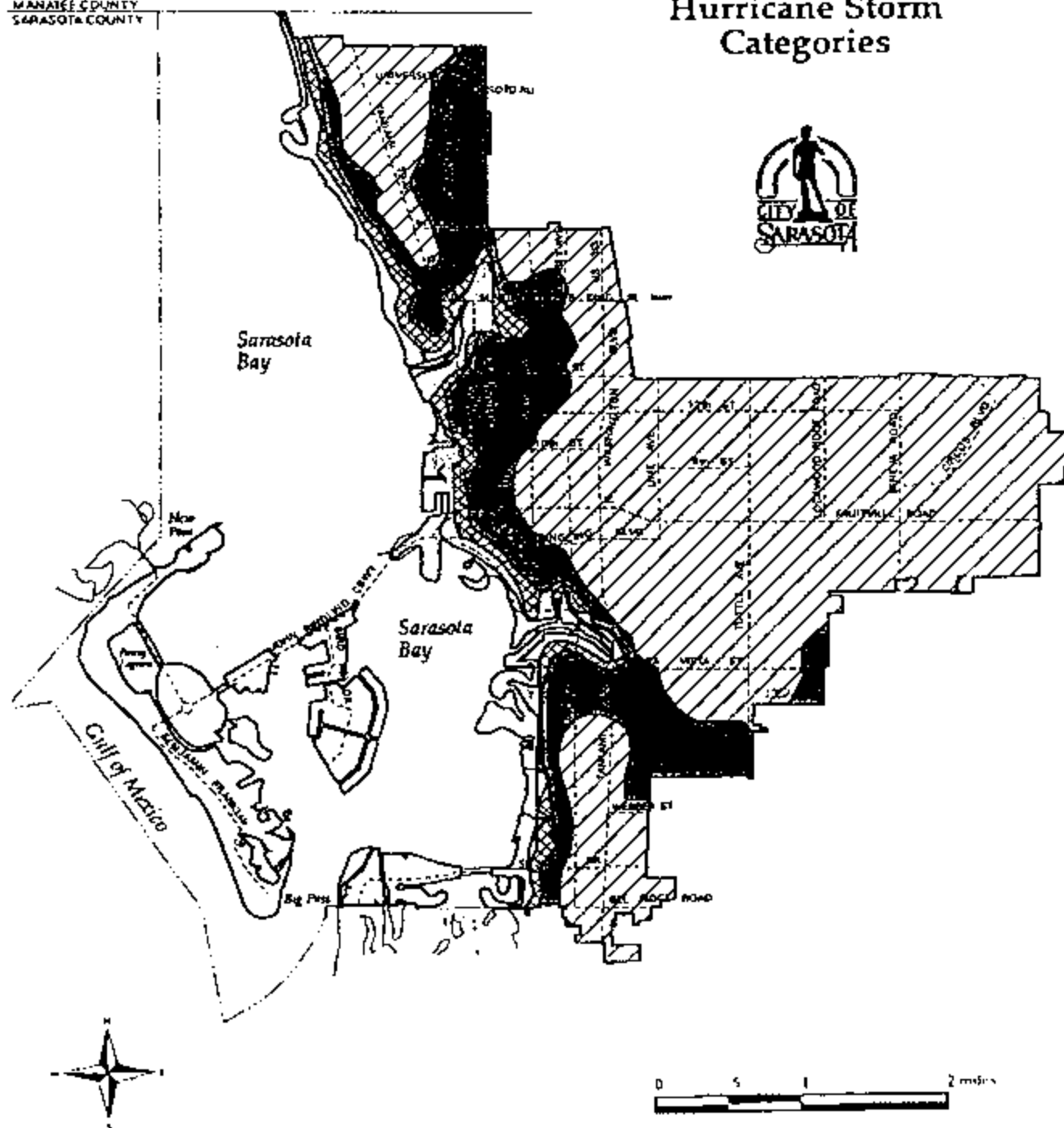


Source: City of Sarasota Engineering Department, 1997

Shoreline Conditions

- Natural Shoreline
- Hardened Shoreline

Illustration EP-11 Hurricane Storm Categories

MANATEE COUNTY
SARASOTA COUNTY

Source: Southwest Florida Regional Planning Council, 1994

Hurricane Storm Categories

- Category 1
(Coastal High Hazard Area)
- Category 2

- Category 3
- Category 4/5

- Areas not included
in storm categories

Note: The hurricane vulnerability area includes Storm Categories 1, 2, and 3. This map is intended to illustrate general vulnerability areas and should not be used for detailed hazard assessment.

Action Strategies

- 4.1 **Development and Evacuation:** The City shall ensure that future development within the Coastal High Hazard Area does not occur in amounts, types, or locations that would cause total evacuation time to exceed those established by the City's "Peacetime Emergency Plan."
- 4.2 **Storm Damage Minimization:** The potential for storm damage shall be minimized through compliance with applicable Land Development Regulations including but not limited to:
- Southern Standard Building Code;
 - Coastal Construction Code;
 - Sarasota Zoning Code, which:
 - ◊ regulates construction in the high wind areas using the standard for hurricane resistant construction SSTD 10-93;
 - ◊ regulates areas of special flood hazard;
 - ◊ regulates properties in the Marine Park zone, by requiring special approvals for any use which could have any negative impact or cause erosion or environmental damage, such as flooding; protects beach and dune alteration through regulations requiring special permitting procedures for properties within the 150 foot gulf-front setback. These regulations require property owners to establish that proposed changes:
 - ⇒ will not endanger the stability of the beach-dune system;
 - ⇒ will not accelerate erosion;
 - ⇒ obtain advance approval from the Florida Department of Environmental Protection;
 - ◊ encourages the use of dune walk-over systems to preserve vegetation and the dunes;
 - ◊ uses conservation districts as overlay zones to protect land uses in certain environmentally sensitive areas including coastal areas, beaches, dunes and marshes;
 - Engineering Design Criteria Manual, which mandates stormwater attenuation and requires that external drainage systems shall be built to the 25-year/24-hour storm event; and,
 - Operational provisions to recover from damage caused to the sanitary sewer system caused by severe storms.



CITY OF SARASOTA
PLANNING & DEVELOPMENT
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FAX TRANSMISSION COVER SHEET

DATE: 5/13/99 FAX NUMBER: 378-6563
TO: John Ryan
COMPANY: Sarasota County Pollution Control
ADDRESS: _____

FROM: Mike Taylor

FAX NUMBER: (941) 954-4179

If the following transmission is of poor quality or a problem has occurred with the transmission,
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A GUIDE FOR CONDUCTING INSPECTIONS TO IDENTIFY AND
TERMINATE PROHIBITED DISCHARGES AND ILLICIT
CONNECTIONS TO THE MS4



Sarasota County Government
Natural Resources
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INTRODUCTION

Sarasota County Ordinance No. 96-020, as amended, Water Pollution Control Code, authorizes the Sarasota County Pollution Control Division to enforce unauthorized discharges by eliminating illicit connections through a program that addresses regulation, scheduled and random inspections, testing, and education. All investigations, findings, and enforcement actions are documented.

Illicit connections are point source dischargers of pollutants to the separate storm sewer system that are not composed entirely of storm water and are not authorized under a NPDES permit. There are two types of illicit connections: pronounced (direct hookups to the sewer system) and subtle (indirect, intermittent, usually without piping).

This document has been prepared to provide procedural guidelines for the investigation of suspected illicit connections, illicit discharges, or other sources of non-storm water. These discharges can be from sewage, groundwater, industrial wastewater, industrial waste, or solid waste into the storm sewer system. The discharges can occur through runoff, piping connections, dumping, spills, seepage, or leaks.

The stated purposes are:

- (1) To detect significant non-storm water pollutant entries into the drainage systems;
- (2) To remove the illicit connection or require the party responsible for the illicit discharge to the MS4 to obtain a separate NPDES permit for discharges and disposal into the storm sewer; and
- (3) To achieve improved water quality within a short time frame.

The Pollution Control Division shall:

- (1) Investigate areas identified through the dry weather field screening program. The Division will conduct dry weather field screening using a drainage basin approach. The program will investigate outfalls within basins containing areas of industrial land use and then proceed to basins containing commercial and residential areas. Refer to Appendix A for the Dry Weather Field Screening Form.
- (2) Investigate areas identified through the inspections of high-risk industrial sites.

- (3) Respond to citizen complaints where illicit connections are suspected using incident response forms. Natural Resources instituted an Incident Response Procedure that must be followed. This procedure enables the Division to track the incidents for assurance of timely resolution.
- (4) Interface with Hazardous Waste and receive inspection forms forwarded from the inspector. The Division is currently working with Hazardous Waste and has requested that their personnel complete an extra NPDES screening form during their routine small quantity generator inspections. This will eliminate duplication of inspection efforts by Division personnel. The NPDES screening forms are forwarded to the Division on a monthly basis and, in some cases, are referred to the Division for further investigation. Some sites may require a follow-up visit from a Pollution Control Division inspector. Appendix B is an example of the form.
- (5) Respond to referrals from other business centers based on field crew observations. The program will also include referrals from field crews within and outside of the business center when they suspect an illicit connection or discharge.
- (6) Perform follow-up inspections as necessary. The areas will be reinspected to verify that all illicit connections have been removed.

Field inspections, field testing, and sample collection procedures shall be the responsibilities of trained Environmental Specialists of the Pollution Control Division. Field inspectors shall follow all DEP and County Standard Operating Procedures and field quality control procedures.

POTENTIAL SOURCES

EPA has identified the following processes as having the potential to contribute pollutants to the storm water system:

- (1) Residential sources, such as sanitary wastewater, septic tank effluent, improper disposal of household hazardous wastes, laundry wastewater, excess landscape watering, or leaking potable water pipes;
- (2) Commercial sources, such as gas station materials and substances, vehicle maintenance and repair sites, laundry wastewater, construction site de-watering, or sanitary wastewater;
- (3) Industrial sources, such as leaking tanks and pipes, cooling water, rinse water, other process wastewater, and sanitary wastewater;

- (4) Intermittent sources, such as wash-up operations at the end of a work shift or job activity, wash-down following irregular accidents and spills, disposal of process batches or rinse water baths, over irrigation of lawns, swimming pools, vehicle maintenance (e.g., washing, radiator flushing, and engine de-greasing), or seasonal operations;
- (5) Direct connections to storm drains; and
- (6) Infiltration to storm drains.

MECHANISMS TO IDENTIFY UNAUTHORIZED DISCHARGES AND ILLICIT CONNECTIONS

Sarasota County provides proper training to all inspectors involved in the identification of conditions that may indicate the presence of prohibited discharge and illicit connections. Illicit discharges may be difficult to locate and identify because they often do not have a constant discharge. To aid in the identification, the inspector may need to review the following:

- (1) General facility diagrams and location maps;
- (2) Site maps;
- (3) Topographic maps that indicate drainage patterns;
- (4) Storm sewer maps;
- (5) Facility material inventories;
- (6) Past facility history of spills and leaks; and
- (7) Aerial surveys.

In addition, the inspector may need to determine the following:

- (1) Land use and density of industrial activity;
- (2) Type and location of industrial and commercial activity;
- (3) Proximity of the site to storm water outfalls and receiving waters; and
- (4) Location and drainage area of all outfalls.

PHYSICAL OBSERVATIONS

The inspector evaluates all sites and/or facilities by using physical and chemical means. The inspector performs an on-site visit to conduct a visual inspection of the system for indications of possible illicit connections and/or discharges. The inspections are ideally conducted during dry weather conditions and during normal business hours when sources of non-storm water may be discharged. The inspector shall look for the presence of intermittent and/or continuous flows to the storm water system. If

indications of such flow exists, the inspector investigates to identify the source of the possible illicit discharge.

The inspector may investigate any combination of the following: outfalls; ditches; canals; retention/detention ponds; channels; swales; curbs; gutters; culverts; pipes; sewer pipes; manholes; and catch basins. A standardized dry weather field screening inspection form (Appendix A) will contain a checklist of items that can be readily observed at the site such as:

- (1) The presence of any dry weather flows;
- (2) The presence of any pipes from illegal or improper plumbing;
- (3) The presence of chemicals, paints, used oil, and other automotive fluids;
- (4) The presence of any stains, sludges, construction debris, fresh concrete, grass clippings, leaves, or pet waste;
- (5) The presence of any odors, solids, color, floatables, turbidity, oil sheen, foam/suds, scum, or other noticeable properties in the outfall;
- (6) Any affected vegetation in the area, such as unusual plant growth, stressed plant life, or absence of plants;
- (7) Any structural damage, such as cracked or spalling cement, peeling paint, or corroded metal;
- (8) The direction of any discharge and/or the storm water runoff; and
- (9) Changes in aesthetics or any other abnormal conditions (since the last visit).

The inspector evaluates the flow pattern of the suspected illicit discharge and tries to estimate the amount of flow. When applicable, the tributaries and several sites upstream will be investigated. At locations where flow is observed, the inspector will attempt to trace the discharge back to a known facility or source. During the field survey, the inspector will evaluate the data and will use his professional judgment to determine if field testing and sampling are required.

Certain sites may be revisited for further analysis and investigation, such as tidal areas where it may be difficult to locate any submerged outfalls. The inspector may elect to return to the area during low tide when the outfall may be exposed. Other sites may require tracer-dye studies to identify the flow source.

Inspectors will be conscious of safety issues and will not put themselves or others in situations that could be considered a potential safety hazard. To complete the survey of the area, photos or videos may be taken to verify the existing conditions. Photos or videos may be taken at other times to document the conditions.

CHEMICAL TESTING

The inspector shall perform field testing of the apparent illicit discharge. All field testing and sampling is conducted under the Florida Department Environmental Protection (DEP) approved Comprehensive Quality Assurance Plan (QAP) No. 870269. As part of the QAP, Sarasota County annually submits a Statement of Intent, which verifies the County's commitment to comply with and adopt the DEP's Standard Operating Procedures, as issued by the DEP Quality Assurance Section. The protocols are contained in the "DEP Standard Operating Procedures for Laboratory Operations and Sample Collection Activities," DEP-QA-001/92 September 30, 1992.

All sampling equipment and instrumentation is transported to the field precleaned and ready to use. All cleaning is conducted following the procedures outlined in the DEP SOP, Section 4.1, Decontamination. Common field measurements include water temperature, pH, specific conductivity, dissolved oxygen, chlorine, and turbidity. During the dry weather field screening survey the following parameters will be performed; color, odor, turbidity, oil sheen, scum, floatables, foam, pH, detergents, total chlorine, total phenol, and total copper. All field instrument readings are taken at the same depth as the samples collected.

Dependent upon the results of the field testing, the inspector shall determine the number of laboratory samples to be collected and the parameters to be analyzed. The data will be used to supplement the results from the measurements of the physical parameters.

The inspector may use grab or composite samples or a combination of both types dependent upon the parameter, purpose, and situation. Every precaution will be taken to ensure that the grab samples are representative of the conditions at the time of sampling. The sample collection should always be conducted from the downstream to the upstream sites. Composite samples will be acquired by the mixing of several samples taken at periodic points in time, usually done by an automatic sampler. (Common practice is usually one sample per hour intervals over a twenty-four hour period.) The inspector may elect to set up an ISCO composite sampler in an attempt to catch an intermittent waste stream. All sampling will be conducted following the procedures outlined in DEP SOP, Section 4.0, Sampling Procedures.

Bacteriological sampling may include testing for total coliform, fecal coliform, and/or fecal streptococcus. All samples will be grab samples and in no case should a composite sample be collected. Samples will be collected using aseptic techniques to avoid sample contamination and will be collected into Coming sterile plastic containers or equivalent. To avoid further contamination, sampling should start at the perimeter of the site then continue into the interior.

Proper sample containers and preservatives shall be provided by the contract laboratory. It shall be the responsibility of the field inspector to follow all preservation protocols and to verify the pH of the

sample in the field using narrow range pH paper. The pH should be documented in the field notebook.

When samples are transported from the field back to the office, it is recommended that all samples be protected from sunlight, heat, and breakage by being properly stored in an iced insulated cooler. All samples shall be maintained at a low temperature of 4°C. It is also important that transport from the field to the laboratory does not exceed six hours when bacteriological samples are collected and that all preservation protocols are followed.

Procedures for sample control should always be followed whenever samples are collected, transported, transferred, stored, analyzed, or disposed, with well-maintained records for each sample. The main objective of the Chain-of-Custody (COC) procedure is to trace the possession of every sample from the time it is collected to the time it is disposed. It is very important that all persons involved be responsible for the sample when it is in their custody. It is also advisable to have a minimum number of persons involved in the COC procedures and to have every person who takes custody be responsible to complete the appropriate section of the COC form. If followed correctly, these procedures will create an accurate, permanent written record.

All samples will be sent with the proper COC records to a certified contract laboratory possessing an approved DEP Comprehensive Quality Assurance Plan. All samples shall be analyzed as per the County's bid specifications using approved methodology.

The inspector shall follow the DEP guidelines for all field calibrations, as outlined in the DEP SOP, Section 7.0, Calibration Procedures and Frequency. The inspector shall follow the DEP guidelines for all equipment maintenance, as outlined in the DEP SOP, Section 8.0, Preventative Maintenance.

When the inspector returns to the office, he shall determine if the investigated discharge is permitted or unpermitted.

ACCEPTABLE OPTIONS

When the illicit discharge is identified, the responsible party shall do one of the following:

- (1) Submit a NPDES permit application for discharge into an approved outfall; or
- (2) Interconnect to the sanitary sewer system;
- (3) Cease the discharge; or
- (4) Recycle the water.

Acceptable measures may include, but are not limited to;

- (1) Elimination of the illicit discharge with a written compliance schedule for the removal of the discharge;

- (2) Submittal of a NPDES permit application within a specified time frame determined by the Division.
- (3) In the interim the Pollution Control Division shall require the party responsible for the illicit discharge to take all reasonable and prudent measures toward compliance. As the responsible party seeks to achieve compliance, the discharge of pollutants must be minimized to the greatest extent possible.

A follow up inspection shall be made;

- (1) To determine compliance and verify that the discharge has stopped (case closed); or
- (2) To determine if water quality has shown improvement.

PUBLIC NOTIFICATION

The program does provide advertisement of an after-hours telephone number to the general public for reporting illicit connections or discharges to the storm water conveyances.

- (1) **Public Education**-The public education and awareness program will concentrate on providing training and information pamphlets to several companies and organizations that employ field personnel, such as GTE, FPL, Comcast, US Mail, and UPS. In addition, the program will provide illicit, discharge, and water quality information presentations to the general public, such as homeowner's associations.
- (2) **Smoke Testing**-Prior to conducting any smoke testing, standard safety procedures will be followed, including notification of all surrounding businesses and residences. The Fire Department and the 911 communications center will also be notified.
- (3) **Sewer Camera Video**-The sewer camera video equipment can be used to televise the storm sewer system. This information is saved and later viewed to scan for illicit connections.
- (4) **Training**-The Division has a long term goal of providing in-house training to field personnel of other business centers, such as the Utilities water meter readers, maintenance crews, and Construction and Property Standards inspectors. As an example new developments can be visually inspected by the plumbing code inspectors to ensure that illegal connections have not been made.

The success of the program will depend upon good communication between all field personnel and management.



1998 Incident Response Summary

Pollution Control Division

Water Quality Section

TYPE	TOTAL
Water Quality	197
NPDES Related	73
Petroleum	61
Odor	41
Fish Kills	18
Hazardous Materials	10
Septic Discharges	9
Buried/Solid Wastes	6
Sewage	33
Construction Sites	7
Drainage Concerns	6
TOTAL	461

1998 NPDES Incidents and Abnormal Events

Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
Reportable Event	BRWRF	01/01/98	584 Countrywood Dr., Sarasota	Overflow as a result of blockage; discharge to storm water system and surface water	01/01/1998	no	Utility	Case Closed
97-001430	258	01/02/98	Sarasota Quay, 333 Tamiami Trail N., Sarasota	Proactive marina inspection; solid waste found in ditch	03/04/1998	no	PCD Staff	Case Closed
Reportable Event	SKUA	01/05/98	527 Avenida Del Norte	Discharge to surface water	01/05/1998	no	Utility	Case Closed
Reportable Event	VGU East	01/09/98	3100, 3110, and 3118 Meadow Run, Venice	Manholes overflowing; discharge to storm water system	01/09/1998	no	Utility	Case Closed
98-000010	122	01/09/98	7140 South Tamiami Trail, apt. complex, Sarasota	Complaint of sewage discharge from pipe	01/22/1998	no	Citizen	Case Closed
98-000067	168	01/14/98	2238 Brookhaven Dr., Sarasota	Resident dumped fuel product into storm system	01/20/1998	yes	Fire Dept.	Case Closed
Reportable Event	VGU East	01/15/98	Willow/Shamrock	Discharge to storm water system	01/15/1998	no	Utility	Case Closed
98-000019	106-W	01/16/98	103 Orange Grove South, Nokomis	Open container of used motor oil found in ditch	01/16/1998	yes	Citizen	Case Closed
98-000026	98	01/22/98	Pine Run Condominiums, 300 Blackburn Pt. Rd., Osprey	Complaint of white murky water in drainage ditch	01/22/1998	no	Citizen	Case Closed
98-000062	193-S	01/22/98	Richardson Rd. and Deer Hollow Blvd., north side of Gateway to Sarasota DRI, contractor Robinson Underground	Construction site BMPs	02/10/1998	no	Citizen	Case Closed
98-000082	130	01/24/98	Colonial Drive and Seaspray, Sarasota	Four manholes discharging to street and storm drains	01/24/1998	no	Citizen	Case Closed
Reportable Event	City of Venice-East	01/25/98	Groveland Ave.	Discharge to storm water system	01/25/1998	no	Utility	Case Closed
98-000033	27	01/26/98	The Towers Shopping Center, 650 North Indiana Ave., Englewood	Complaint concerning retention pond; determined to be drainage related	01/26/1998	referred to IRT	Citizen	Case Closed
98-000080	130	01/26/98	Colonial Drive and Seaspray, Sarasota	Four manholes discharging to street and storm drains	03/11/1998	no	Citizen	Case Closed
Reportable Event	Camelot	01/27/98	Twin Lakes reclaimed water pond	Pond overflowing; discharge to swale	01/27/1998	no	Utility	Case Closed
98-000063	280	01/28/98	Woodland Park WWTF, McIntosh Rd., Sarasota, contractor Forristall Demolition	Dewatering from construction site; approved abandonment plan	02/09/1998	no	County Dev. Services	Case Closed
98-000064	132	01/28/98	SW corner of Clark and Beneva Rds., Sarasota, contractor B M Construction	Off site discharge associated with construction of gas station	02/09/1998	no	PCD Staff	Case Closed
98-000139	47	01/30/98	425 Driftwood Rd., Venice Gardens, Venice	Possible illicit pipe; observed to be a roof drain pipe	01/30/1998	no	Citizen	Case Closed
Reportable Event	VGU East	01/31/98	Venice Isles MHP	Oil entered storm water system	01/31/1998	no	Utility	Case Closed

1998 NPDES Incidents and Abnormal Events

Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
98-000045	280	02/02/98	Woodland Park WWTF, McIntosh Rd., Sarasota, contractor Fortistall Demolition	Dewatering from construction site; approved abandonment plan	02/02/1998	no	Citizen	Case Closed
98-000305	175	02/02/98	Ashton Manor Development, C and M Road Builders, Ashton and Fielding Rds., Sarasota	Off site discharge associated with dewatering activities from construction site	02/12/1998	no	County Dev. Services	Case Closed
98-000085	155	02/03/98	4650 South Lockwood Ridge Rd., Sarasota	Possible illicit 4" PVC pipe	04/09/1998	no	IRT	Case Closed
Reportable Event	KP/Monica Pkwy	02/04/98	Monica Parkway, plant site	Pumped to storm water system to conserve berm; discharge to storm water system	02/04/1998	no	Utility	Case Closed
98-000146	1-D,1-E	02/04/98	905 Key Way	Complaint of high turbidity in creek; no source found	03/11/1998	no	IRT	Case Closed
Reportable Event	BRWRF	02/05/98	Sent Tree master lift station	Main breaker out, discharge to surface water	02/05/1998	no	Utility	Case Closed
98-000148	86	02/05/98	205 Jessica Ave., Nokomis	Complaint of sewage in storm drain; observed storm water from roof drains during inspection	02/09/1998	no	Citizen	Case Closed
Reportable Event	Florida Cities-South Gate	02/06/98	Florida Cities-South Gate, plant site	Activation system failed; discharge to surface water	02/06/1998	no	Utility	Case Closed
98-000152	96	02/10/98	Southbay Yacht Club, 1400 Southbay Drive, Osprey	Odor complaint; white greasy discharge in storm drain	02/13/1998	no	Citizen	Case Closed
Reportable Event	City of North Port	02/11/98	Pan American Blvd., in front of WWTF	Broken reuse line; discharge to storm drain	02/11/1998	no	Utility	Case Closed
98-000108	11B	02/11/98	Hidden Harbor Marine, 7700 South Tamiami Trail, Sarasota	Stained soil in the vicinity area and hand-washing sink discharging to soil near engine repair shop	05/08/1998	yes	PCO Staff	Case Closed
98-000109	123	02/11/98	7650 South Tamiami Trail, Sarasota	Complaint of sewage like odor in the ditch; seepage from parking lot draining to Elbigraw Bayou	05/12/1998	yes	Resource Mgt. Div	Case Closed
98-000154	180	02/12/98	4719 Webber Street, Sarasota	Discharge of laundry wash water	02/24/1998	referred to County Health Dept.	Citizen	Case Closed
Reportable Event	Atlantic	02/13/98	2737 Woodmont Dr., Sarasota	Gravity man accidentally hit; discharge to storm water system	02/13/1998	no	Utility	Case Closed
Reportable Event	VGU East	02/14/98	1902 Innisbrook Ct., Venice	Breaker tripped on lift station; discharge to storm water system	02/14/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	02/15/98	Flores Ave.	Manholes overflowing; discharge to storm water system	02/15/1998	no	Utility	Case Closed

1998 NPDES Incidents and Abnormal Events

Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
Reportable Event	City of Sarasota	02/15/98	Tangier Terrace	Manholes overflowing; discharge to storm water system	02/15/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	02/15/98	Bobby Jones Rd.	Manhole overflow; discharge to surface water	02/17/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	02/15/98	Flores Ave.	Manhole overflow; discharge to surface water	02/17/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	02/15/98	Tangier Terrace	Manhole overflow; discharge to surface water	02/17/1998	no	Utility	Case Closed
Reportable Event	Florida Cities-South Gate	02/16/98	Seasons lift station on Clark Rd., and Cass St	Discharge to surface water	02/16/1998	no	Utility	Case Closed
98-000157	186	02/17/98	4480 North Lake Drive, Sarasota	Complaint of discharge to pond; observed roof drain pipe during inspection	02/17/1998	no	Citizen	Case Closed
98-000159	329	02/17/98	339 Treasure Boat Way, Siesta Key	Discharge of chlorinated pool water to canal	02/17/1998	no	Citizen	Case Closed
Reportable Event	City of Venice Island	02/17/98	301 S. Tamiami Trail	Discharge to storm water system	02/17/1998	no	Utility	Case Closed
Reportable Event	Florida Cities-South Gate	02/17/98	corner of Brooklyn and Fos Run Roads	Manhole overflow; discharge to surface water	02/17/1998	no	Utility	Case Closed
Reportable Event	Florida Cities-South Gate	02/17/98	corner of Rose St and Lockwood Ridge Rd	Manhole overflow; discharge to surface water	02/17/1998	no	Utility	Case Closed
Reportable Event	VGU East	02/17/98	1655 Willow Lane, Venice	Overflow to storm water system	02/17/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	02/17/98	Hi Hat Ranch storage pond	Treated effluent overflowed; discharge to surface water	02/17/1998	no	Utility	Case Closed
Reportable Event	SKUA	02/18/98	Whitehall Place and Midnight Pass Rd.	Discharge to surface water	02/18/1998	no	Utility	Case Closed
Reportable Event	Bahia Vista MHP	02/18/98	Bahia Vista MHP, plant site	Percolation pond failure; discharge to Philippi Creek	02/19/1998	no	Utility	Case Closed
Reportable Event	SKUA	02/19/98	on site at plant	Discharge of non chlorinated effluent to surface water.	02/19/1998	no	Utility	Case Closed
Reportable Event	VGU East	02/19/98	1179 US 41, Venice	Manhole overflow; discharge to surface water	02/19/1998	no	Utility	Case Closed

1998 NPDES Incidents and Abnormal Events

Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
Reportable Event	City of Sarasota	02/19/98	San Remo Cove	Sewage spill	02/19/1998	no	Utility	Case Closed
98-000172	61	02/20/98	West Coast Architectural Precast, 109 Seaboard Ave., Venice	Ongoing problem with off site discharges	04/06/1998	no	City of Venice	Case Closed
98-000182	129	02/21/98	Sesto Sub Shop and Pizzeria, 6550 Gateway Ave., Sarasota	Broken grease trap, discharge to storm water system	05/11/1998	yes	Citizen	Case Closed
Reportable Event	VGL East	02/22/98	Venice Isles	Manhole overflow; discharge to storm water system	02/22/1998	no	Utility	Case Closed
Reportable Event	BRWRF	02/23/98	Gator Creek golf course	Reuse pond overflow; discharge to surface water	02/23/1998	no	Utility	Case Closed
Reportable Event	CCU	02/23/98	Laurel Woodland lift station	Lift station malfunction; discharge to surface water	02/23/1998	no	Utility	Case Closed
Reportable Event	Florida Cities-South Gate	02/23/98	intersection of Colonial Dr. and Seaspray	Spill during reconnection of force main; discharge to storm water system	02/23/1998	no	Utility	Case Closed
98-000181	114-W	02/24/98	2840 Mira Loda Dr., Sarasota	Contents of septic tank pumped to ditch	04/06/1998	yes	Citizen	Case Closed
98-000093	339	02/26/98	Charlie's Crab, 420 St. Armands Circle, Sarasota	Septic odor in storm water system	03/11/1998	no	City of Sarasota Utilities	Case Closed
Reportable Event	BRWRF	02/27/98	Laurel Oaks and Gator Creek golf courses	Ponds pumped down into on-site storm water ponds; discharge to surface water	02/27/1998	no	Utility	Case Closed
98-000189	193-S	03/01/98	5826 Covington Way, Deer Hollow, Sarasota	Complaint of petroleum-based odors emanating from storm drains; no odors found	03/05/1998	no	Citizen	Case Closed
98-000196	141	03/03/98	Grafton Street and Swift Road, Sarasota	Excavation cut into residential septic drainfield; discharge to ditch	03/08/1998	referred to Health Dept.	County Drainage Operations	Case Closed
Reportable Event	Englewood Isles	03/04/98	Englewood Isles	Force main failure; discharge to storm water system	03/04/1998	no	Utility	Case Closed
98-000098	69	03/05/98	Gulf Liner Marine, 601 North Tamiami Trail, Venice	Proactive manna inspection; stained utility sink; requested removal	04/21/1998	no	FCD Staff	Case Closed
98-000239	69	03/06/98	Marker 4 Oyster Bar, 505 North Tamiami Trail	Prohibited discharge to bay	07/20/1998	yes	FCD Staff	Case Closed
Reportable Event	City of Sarasota	03/09/98	Indian Beach Lane lift station	Surcharge of system; discharge to surface water	03/09/1998	no	Utility	Case Closed
98-000204	54	03/09/98	Lightning Lube and Car Wash, 915 South Tamiami Trail, Venice	Complaint of oil and grease in drainage ditch; no prohibited discharges found during inspection	03/11/1998	no	Citizen	Case Closed
98-000215	167	03/11/98	2552 Juniper Place, Sarasota	Pool water discharge	03/23/1998	no	Citizen	Case Closed

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Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
98-000214	43	03/11/98	1835 South Tamiami Trail, Venice	Wellpoint system discharges from site to storm water swale	04/20/1998	no	PCO Staff	Case Closed
98-000174	42-W	03/16/98	7-Eleven Food Store, 2200 South Tamiami Trail, contractor Don Stine Construction, Inc.	Performing repair work on gas station area, applied for NPDES permit and will utilize treatment system	03/25/1998	no	PCO Staff	Case Closed
98-000219	203	03/18/98	Chetco Inc., 2211 Industrial Blvd., Sarasota	Discharge to driveway; new business added to high-risk industrial list	03/19/1998	no	Citizen	Case Closed
Reportable Event	CCU	03/19/98	Royal Coachman and Sugarmill lift station	Discharge to storm water system	03/19/1998	no	Utility	Case Closed
Reportable Event	CCU	03/19/98	Oaks Country Club parking lot	Discharge to surface water	03/19/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	03/19/98	Lodge Drive	Manhole overflow; discharge to storm water system	03/19/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	03/19/98	Midtown Medical Center	Manhole overflow; discharge to storm water system	03/19/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	03/19/98	City of Sarasota, plant site	Overflow of chlorine contact chamber; discharge to storm water system	03/19/1998	no	Utility	Case Closed
Reportable Event	VGU East	03/19/98	412 Center Rd., Venice	Manhole overflow; discharge to storm water system	03/20/1998	no	Utility	Case Closed
Reportable Event	VGU East	03/19/98	Banyon Rd. and Redwood Ave., Venice	Manhole overflow; discharge to storm water system	03/20/1998	no	Utility	Case Closed
Reportable Event	VGU East	03/19/98	East Shade and Glenoak Dr., Venice	Manhole overflow; discharge to storm water system	03/20/1998	no	Utility	Case Closed
Reportable Event	VGU East	03/19/98	Juniper St., Venice	Manhole overflow; discharge to storm water system	03/20/1998	no	Utility	Case Closed
Reportable Event	VGU East	03/19/98	Shamrock and Willow Circle, Venice	Manhole overflow; discharge to storm water system	03/20/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	03/19/98	Tangier Terrace and Flores Ave.	Manholes overflowing; discharge to storm water system	03/20/1998	no	Utility	Case Closed
Reportable Event	CCU	03/19/98	Parcel X	Effluent from holding pond discharge to surface water	03/24/1998	no	Utility	Case Closed
Reportable Event	VGU East	03/19/98	Jacaranda Golf Course storage ponds	On site reuse ponds discharging to Hatchett Creek	03/26/1998	no	Utility	Case Closed
98-000220	36	03/19/98	152 Clemson Road, South Venice	Septic system discharge to storm water ditch	05/05/1998	yes	Health Dept.	Case Closed
Reportable Event	Dol. Fruitville	03/20/98	Sun'n Fun lift station	Lift station overflow; discharge to ditch	03/20/1998	no	Utility	Case Closed
Reportable Event	KP/Monica Pkwy	03/20/98	Monica Parkway, plant site	Surge tank overflowed; discharge to storm water system	03/20/1998	no	Utility	Case Closed

1998 NPDES Incidents and Abnormal Events

Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
Reportable Event	SKUA	03/20/98	6772 Sarasea Circle,	Manhole overflow, discharge to storm drain and surface water	03/20/1998	no	Utility	Case Closed
Reportable Event	BRWRF	03/20/98	Bent Tree Treatment Plant reuse ponds and Bent Tree and Gator Creek golf courses	Reuse ponds discharging to storm water system	03/20/1998	no	Utility	Case Closed
Reportable Event	City of Sarasota	03/20/98	on site at plant	36" influent line break; discharge to Payne Terminal and Hog Creek	03/21/1998	no	Utility	Case Closed
Reportable Event	CCU	03/20/98	Prestancia golf course	Effluent holding pond discharged to surface water system	03/24/1998	no	Utility	Case Closed
Reportable Event	CCU	03/20/98	on site at plant	Effluent from reject holding pond discharged to storm water system	03/24/1998	no	Utility	Case Closed
98-000237	Dolomite-Fruitville	03/20/98	Sun'n Fun RV Resort, Fruitville Road, Sarasota	Lift station overflow to ditch	05/15/1998	yes	Citizen	Case Closed
Reportable Event	CCU	03/20/98	Royal Coachman pond lift station	Manhole overflow; discharge to storm water ditch	03/20/1998	no	Utility	Case Closed
Reportable Event	City of Venice East	03/20/98	On site at plant	Discharge to Curry Creek	unknown	no	Utility	Case Closed
Reportable Event	VGU East	03/21/98	On site at plant	Splitter box plugged; discharge to Hatchett Creek	03/21/1998	no	Utility	Case Closed
98-000065	77	03/21/98	606 Albee Road, Nokorus	Heating fuel slick around boat dock in Lyons Bay	09/18/1998	yes	PCD Staff	Case Closed
Reportable Event	City of Venice East	03/22/98	On site at plant	Discharge to Curry Creek	03/22/1998	no	Utility	Case Closed
98-000307	112	03/23/98	4660 Alexander Pope Lane, Bent Tree subdivision, Sarasota	Pool water discharge	03/23/1998	no	Citizen	Case Closed
98-000118	146	03/23/98	2532 Marlette St.	Complaint of rusty water from neighbor; investigation showed dewatering of groundwater	03/23/1998	no	Citizen	Case Closed
Reportable Event	Myakka State Park #2	03/23/98	On site at plant	Off line as a result of heavy rains	03/23/1998	no	Utility	Case Closed
98-000240	55	03/24/98	Auto Enhancements, 1030 US 41 By-pass South, Venice	Complaint of wash water draining to the ground, investigation showed no prohibited discharges	03/25/1998	no	Citizen	Case Closed
98-000222	297	03/24/98	Furniture Restoration, 1608 10th St., Sarasota	Illegal solvent dumping to canal; NOV issued; discharge pipe removed	03/26/1998	yes	County Drainage Operations	Case Closed

1998 NPDES Incidents and Abnormal Events

Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
Reportable Event	CCU	03/27/98	Delacross and Sorrento Wood Blvd	Force main break; discharge to storm water system	03/27/1998	no	Utility	Case Closed
98-000050	Myakka MHP	03/27/98	Myakka MHP WWTF, US 41 and River Rd.	Complaint of percolation pond leaching to storm drain	03/27/1998	yes	Citizen	Case Closed
98-000229	183	03/28/98	2620 Pursell Circle, Sarasota	Complaint of septic tank discharge to street	03/28/1998	no	Citizen	Case Closed
98-000085	56	03/28/98	Venice Villas, 908 Villas Drive, Venice	Complaint of sewage in ditch; observed algae bloom during investigation	03/28/1998	no	Citizen	Case Closed
98-000087	183	03/29/98	2620 Pursell Circle, Sarasota	Complaint of septic tank discharge to street; installers to correct problem	03/30/1998	no	Citizen	Case Closed
98-000272	73	04/01/98	Sandler's Ranch, 1031 Atbee Farm Rd.	Manure placed close to sidewalk and storm drain	04/03/1998	no	City of Venice Utilities	Case Closed
98-000271	114-E	04/01/98	8253 Webber St., Sarasota	Complaint of outhouse discharging to canal; no prohibited discharge from storage shed observed during inspection	07/06/1998	no	Citizen	Case Closed
98-000274	83	04/01/98	Publix, Nokomis Shopping Center, US 41, Nokomis	Complaint of dumpster leaking to creek, no leakage seen during inspection	3/4/1/98	no	Citizen	Case Closed
Reportable Event	CCU	04/02/98	213 Lychee	Manholes overflow, discharge to storm water system	04/02/1998	no	Utility	Case Closed
Reportable Event	City of Venice East	04/02/98	Gulf St and South Park Blvd, Venice	Force main break; discharge to surface water	04/02/1998	no	Utility	Case Closed
Reportable Event	City of Venice Island	04/03/98	1700 South Harbor Dr., Venice	Force main out when connecting new service; discharge to surface water	04/03/1998	no	Utility	Case Closed
Reportable Event	Myakka State Park #1	04/03/98	On site at plant	Effluent discharged to wetland	04/03/1998	yes	Utility	Case Closed
98-000244	59	04/03/98	Althea's Restaurant, 220 Mianx Ave. West, Venice	Restaurant wash water discharged to alley	05/12/1998	yes	Venice Code Enf	Case Closed
98-000254	42-W	04/08/98	Woodmere Apts., 3900 Woodmere Park Blvd., Venice	Complaint of herbicide spraying in storm water pond	04/09/1998	no	Citizen	Case Closed
98-000255	310	04/08/98	Sarasota Place Apts, Old Bradenton Rd, Sarasota	Sewage overflow to sidewalk, parking lot, and swale	04/10/1998	yes	Citizen	Case Closed
98-000035	101	04/08/98	10 North Tamiami Trail., Osprey	Complaint of dewatering to a storm water system; no prohibited discharge	04/13/1998	no	Citizen	Case Closed
98-000273	4-C	04/09/98	MTI Equipment, Inc., 515 Paul Morris Dr., Englewood	Sandblasting paint off equipment close to pond	04/22/1998	no	Citizen	Case Closed

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Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
98-000333	173	04/13/98	Chris Hollingsworth Detailing and Ray Raymond Detailing, 4583 Clark Rd., Sarasota	Engines degreased with runoff going to a ditch	05/14/1998	yes	County Haz. Waste	Case Closed
98-000337	143	04/15/98	1579 Eastbrook Drive, Sarasota	Complaint of discolored water and odor in pond	05/07/1998	no	Citizen	Case Closed
Reportable Event	Atlantic	04/17/98	Linwood St., Sarasota	Manhole overflow; discharge to storm water ditch	04/17/1998	no	Utility	Case Closed
98-000336	150	04/20/98	Tim's Auto Service, 5815 Lawton Drive, Sarasota	Complaint of suspicious pipe draining to ditch; roof drain observed during inspection	04/22/1998	no	Health Dept.	Case Closed
98-000279	95	04/21/98	Southbay Yacht Club, 1400 Southbay Drive, Osprey	Complaint of discharge; discharge from pool to storm water system	07/20/1998	yes	Citizen	Case Closed
98-000279	95	04/21/98	Southbay Utilities and Southbay Yacht and Racquet, 4370 S. Tamiami Trail,	Illicit connection and prohibited discharge to marina	07/20/1998	yes	PCD Staff	Case Closed
98-000280	156	04/23/98	Proctor Rd, west of Beneva Rd., Sarasota	Vehicle accident; gasoline discharging to drainage canal	04/23/1998	no	Fire Dept.	Case Closed
98-000127	83	04/24/98	Nokomis Shopping Center, US 41, Nokomis	Complaint of litter in ditch and canal	05/01/1998	no	Citizen	Case Closed
98-000338	83	04/24/98	Speedway Gas Station, US 41, Nokomis	Complaint of oil sheen in runoff; no prohibited discharges found	05/20/1998	no	Citizen	Case Closed
98-000359	2-N	04/27/98	St. Andrews Park construction site, Center Rd., Venice	Dewatering to ditch; site in compliance	04/30/1998	no	Citizen	Case Closed
98-000360	165	04/27/98	Romaine Funeral Home, 3340 Bee Ridge Rd., Sarasota, contractor PDG Electric	Turbidity as a result of light pole installation	06/22/1998	no	Citizen	Case Closed
Reportable Event	CCU	04/28/98	Oaks Subdivision, Osprey	Effluent discharge to ditch	04/29/1998	no	Utility	Case Closed
98-000365	102	04/29/98	The Oaks, north end of Glenwood, Osprey	Raw sewage discharge to storm water pond	07/27/1998	no	Citizen	Case Closed
98-000367	226	05/01/98	Pizza Hut, 1707 South Tamiami Trail, Sarasota	Prohibited discharge	06/02/1998	yes	Citizen	Case Closed
Reportable Event	City of Venice East	05/03/98	1313 Tarpon Center Dr., Venice Yacht Club, Venice	Sewer main blockage; discharge to storm water and surface water	05/03/1998	no	Utility	Case Closed
98-000316	104	05/05/98	Anderson Auto Parts, 1261 US 41 Bypass South, Venice	Prohibited discharge; utility sink discharge	05/05/1998	yes	County Haz. Waste	Case Closed
98-000290	143	05/06/98	1428 Pine Bay	Complaint of discharge to ditch then to bay; inspection showed pool construction with groundwater pumping	05/06/1998	no	Citizen	Case Closed
98-000299	253	05/13/98	Publix, 282 Shopping Lane, Sarasota	Dumpster leaking into storm drain	05/22/1998	no	Citizen	Case Closed
98-000303	36	05/15/98	Belvedere St., Japanese Gardens	Hydraulic fluid leaking from County truck into ditch	06/01/1998	no	Citizen	Case Closed
98-000379	106-N	05/21/98	70 King Arthur Dr., Kings Gate Club, Sarasota	Complaint of laundry wash water discharge to waterway; investigation found no prohibited discharges	05/22/1998	no	Citizen	Case Closed

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Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
98-000380	205	05/21/98	Stanley Steamer, 1797 DeSoto Rd., Sarasota	Contractor discharging wash water to soil; no discharge to storm water	06/03/1998	no	Citizen	Case Closed
98-000326	106-N	05/22/98	King's Gate Club, Castle Dr., Nokomis	Questionable vehicle and boat wash practices	09/09/1998	no	PCD Staff	Case Closed
Reportable Event	CCU	05/27/98	Old Summerwood Blvd. and Summer Breeze Way	Lift station overflow, discharge to storm water system	05/27/1998	no	Utility	Case Closed
98-000327	194	05/27/98	Crown Lake ditch, west end of Prado Dr., DeSoto Lakes	Complaint of lack of erosion control measures on construction site, investigation found canal banks stabilized with sod	05/29/1998	no	Citizen	Case Closed
Industrial Facility Inspection	201	05/02/98	Steel Products, Inc., 1821 Myrtle Street, Sarasota	Overspray paint discharged to ground	06/02/1998	yes	PCD Staff	Case Closed
98-000340	201	05/02/98	Anderson Asphalt Services, Inc., 1775 Myrtle St., Sarasota	Prohibited discharge; spill of permea seal off site to street and ground	08/07/1998	yes	PCD Staff	Case Closed
98-000387	162	05/03/98	4023 Sawyer Rd., Sarasota	Transmission oil dumped on pavement where it could drain to a storm water pond. Cleaned up by Fire Dept	06/15/1998	no	Fire Dept.	Case Closed
98-000426	251	06/03/98	715 Rowe Place, Sarasota. Contractor- Paul's Pools	White, murky pool discharge to Hudson Bayou	08/06/1998	yes	Citizen	Case Closed
98-000429	157	06/08/98	4509 Falcon Ridge Dr., Sarasota	Complaint of grass clipping dumped to pond, investigation found algae bloom	06/10/1998	no	Citizen	Case Closed
98-000442	11-J	06/09/98	Marsh Creek Development, North Port, Wadsworth Golf Construction Company	Diesel tank leaking on construction site	06/09/1998	yes	PCD Staff	Case Closed
Reportable Event	CCU	06/10/98	6794 Approach Rd. lift station	Lift station turned off by contractor, discharge to storm water system	06/10/1998	no	Utility	Case Closed
98-000455	182	06/15/98	3723 Sharondale, Sarasota	Pool discharge to street	06/15/1998	no	Citizen	Case Closed
Reportable Event	CCU	06/18/98	50 Maceachen Dr.	Lift station overflow, discharge to storm water system	06/18/1998	no	Utility	Case Closed
Reportable Event	CCU	06/24/98	Oaks II parking lot, north of tennis courts	Discharge to storm water system	06/24/1998	no	Utility	Case Closed
Industrial Facility Inspection	201	06/24/98	APAC-Florida, Inc., 1451 Myrtle St., Sarasota	Prohibited discharge, asphalt coating chemical	06/24/1998	yes	PCD Staff	Case Closed
98-000505	143	06/29/98	3851 Tanger Terrace	Pool repair work conducted	06/30/1998	no	Resource Permitting Division	Case Closed
98-000507	141	06/29/98	2414 Portland St., Sarasota	Complaint of chemical discharge into Philippi Creek; no evidence of pollution found	07/07/1998	no	Citizen	Case Closed
98-000488	177	06/30/98	4700 Bliss Rd., Sarasota	Complaint of blue-green water; investigation found iron bacteria in low water conditions	07/06/1998	no	County Drainage Operations	Case Closed

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Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
98-000457	252	07/01/98	Kelex, Inc. 1927 Ringling Blvd.	Powerwashing paint to storm drain	09/15/1998	yes	County Haz. Waste	Case Closed
Reportable Event	Southbay Utilities	07/04/98	Southbay Utilities-absorption fields	Fields overflowing	ongoing	ongoing	Citizen	Case Open
98-000490	289	07/09/98	1012 N. Tamiami Trail, near 10th and US 41, Sarasota	Contractor questions possible contamination in storm water structure; no contamination found	07/10/1998	no	County SEU	Case Closed
97-001004	343	07/11/98	Pelican Man Bird Sanctuary, Cray Island	Bird waste discharge to bay	07/23/1998	no	Citizen	Case Closed
97-001005	343	07/11/98	Pelican Man Bird Sanctuary, Cray Island	Bird waste discharge to bay	07/23/1998	no	Citizen	Case Closed
Reportable Event	City of Venice East	07/13/98	115 North US 41 By-Pass	Discharge to Hatchett Creek	07/13/1998	no	Utility	Case Closed
98-000458	95	07/14/98	RV World Inc., 2110 North Tamiami Trail, Nokomis	Vehicle washing area and sink to ground	08/12/1998	yes	County Haz. Waste	Case Closed
98-000496	290	07/17/98	1350 Central Ave., Sarasota	Petroleum spills to unpaved street	07/31/1998	yes	PCD Staff	Case Closed
98-000751	145	07/20/98	2124 Bee Ridge Rd. and School Ave., Sarasota	Diesel spill to storm drain at south west corner; spill as a result of leak caused by broken fuel line	07/21/1998	no	Fire Dept.	Case Closed
Reportable Event	CCU	07/22/98	1512 Pelican Point Dr	Telemetry for lift station went down, discharge to surface water	07/22/1998	no	Utility	Case Closed
98-000459	105-S	07/27/98	Environmental Products USA, Inc., 730 Commerce Dr., Venice	Discharging preservative to retention pond	09/14/1998	no	County SEU	Case Closed
98-000754	145	07/27/98	Circle K, 4201 S. Tamiami Trail, Sarasota	Discharge of raw sewage to street in front of day care facility	09/15/1998	yes	Health Dept.	Case Closed
98-000757	246	07/30/98	500 Palm Ave. Sarasota	Complaint of sheen from storm water drain; slight sheen observed; source unknown	08/05/1998	no	Citizen	Case Closed
98-000758	52	07/31/98	940 Sunset Dr., Venice	Complaint of brown water discharging to gulf after heavy rain; no discharge noted during inspection, structure needs flapper valves	09/01/1998	no	Citizen	Case Closed
Reportable Event	CCU	08/04/98	Lift Station 114-209, 4000 Clark Road	Manhole overflow; discharge to retention pond	08/04/1998	no	Utility	Case Closed
Reportable Event	CCU	08/08/98	3846 Spyglass	Discharge to storm water system	08/08/1998	no	Utility	Case Closed
98-000768	6	08/11/98	corner of Safford Terrace and Pan American Blvd., North Port	Transformer blew as a result of lightning; discharge of mineral oil to side walk, no discharge to storm system	08/18/1998	no	Citizen	Case Closed
98-000769	145	08/11/98	Walgreen's construction site, US 41 and Bee Ridge Rd., Sarasota	Complaint of lack of silt screens or controls in place	12/21/1998	no	Citizen	Case Closed
98-000774	88	08/13/98	1002 Dona Way, Nokomis	Complaint of spills left from FPL work; concern that rain will wash spills into creek; investigation found small spill to pavement	08/18/1998	no	Citizen	Case Closed

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Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
Reportable Event	CCU	08/14/98	Lift Station 95-245, 6044 Approach Rd.	Manhole overflow; discharge to storm water system	08/14/1998	no	Utility	Case Closed
Reportable Event	CCU	08/17/98	Lift Station 142-235, 50 MacEwen Dr.	Manhole overflow; discharge to storm water system	08/17/1998	no	Utility	Case Closed
Reportable Event	VGU East	08/19/98	Venice East Blvd. And Meadowood Run Dr	Manhole overflow; discharge to storm water system	08/19/1998	no	Utility	Case Closed
Reportable Event	VGU East	08/24/98	Intersection of Jacaranda and Cypress Point Rd	Manhole collapsed; discharge to storm water system	08/24/1998	no	Utility	Case Closed
Reportable Event	City of North Port	08/25/98	Lift Station G, Landover and Biscayne	Discharge to storm water ditch	08/25/1998	no	Utility	Case Closed
Reportable Event	CCU	08/26/98	Lift Station 142-235, 50 MacEwen Dr.	Manhole overflow; discharge to storm water system	08/26/1998	no	Utility	Case Closed
Reportable Event	CCU	08/27/98	Lift Station 114-202, 3819 Spyglass Hill Rd.	Manhole overflow; discharge to storm water system	08/27/1998	no	Utility	Case Closed
Reportable Event	CCU	08/30/98	Lift Station 098245, 4910 Avon Lane	Manhole overflow; discharge to storm water system	08/30/1998	no	Utility	Case Closed
98-000535	241	09/01/98	Intersection of Gulf Stream and John Ringling Causeway, Sarasota	Complaint of gas or diesel on water	09/03/1998	no	Citizen	Case Closed
98-000554	50	09/01/98	Cypress Point, Venice	Complaint of murky conditions	09/01/1998	no	Citizen	Case Closed
98-000564	70	09/09/98	402 Substation Rd., Venice	Diesel spill from tractor trailer; discharge to storm water ditch	09/09/1998	no	City of Venice Fire Dept	Case Closed
98-000568	344	09/10/98	John Ringling Causeway Bridge	Complaint of skin irritation from water; FL Marine Research Institute will investigate	09/14/1998	no	Citizen	Case Closed
98-000566	324	09/10/98	Gulf to Bay Condo, Siesta Key Beach, 800 Beach Rd.	Complaint of sulfur odor and dark color of water; Health Dept., Transportation, and Parks are looking into the possibility of an artesian well	09/14/1998	no	Citizen	Case Closed
98-000571	250	09/14/98	Hollywood 20, 1993 Main St., Sarasota	Discharge of wash water from carpet cleaning to storm drain	09/15/1998	yes	Citizen	Case Closed
Reportable Event	Atlantic	09/14/98	Lift Station 069-097, 4503 N. Diamond Circle	Discharge to storm water system	09/14/1998	no	Utility	Case Closed
98-000825	118	09/16/98	Lexus of Sarasota, 7641 S. Tamiami Trail, Sarasota	Complaint of wash water discharge to intracoastal, inspection found no discharge.	09/24/1998	no	Citizen	Case Closed
Reportable Event	BRWRF	09/19/98	4618 Forestwood Trail	Discharge to storm drain	09/19/1998	no	Utility	Case Closed
Reportable Event	Eng. Water Dist.	09/20/98	Dover Dr. and Firethorn Ave.	Two manholes discharging to storm drain	09/20/1998	no	Utility	Case Closed

1998 NPDES Incidents and Abnormal Events

Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
Reportable Event	VGU East	09/20/98	East Shade Rd. and Redwood Rd	Manhole overflow; discharge to surface water	09/20/1998	no	Utility	Case Closed
98-000408	113	09/22/98	Bee Ridge Extension, Sarasota	Diesel fuel spill to storm drain	09/22/1998	no	Fire Dept.	Case Closed
Reportable Event	City of Sarasota	09/23/98	Lift Station 35; Bird Key Dr	Discharge to storm water system	08/24/1998	no	Utility	Case Closed
98-000773	182	09/28/98	5951 Cattlebridge Rd., Sarasota	Sediment from construction site	10/08/1998	no	County Property Standards	Case Closed
Reportable Event	Myakka State Park #1	09/28/98	On site at plant	Heavy rain; discharge to river	10/14/1998	no	Utility	Case Closed
98-000785	96	09/29/98	Southbay Yacht Club, 4370 S. Tamiami Trail	Flow from storm drains; strong sulfur odor detected	09/29/1998	ongoing	Citizen	Case Open
98-000778	325	10/01/98	450 Beach Rd., Siesta Key; contractor Galaxy Pool Service	Pool discharge to storm drain	10/02/1998	yes	Citizen	Case Closed
98-000839	138	10/02/98	1718 Kestral Parkway, Sarasota	Discharge from lateral line to storm water system and pond; leak repaired	10/05/1998	no	Citizen	Case Closed
98-000842	43	10/06/98	580 Argus Rd., Venice	Neighbor's pool overflow to yard, reportedly killing fruit trees	10/08/1998	no	Citizen	Case Closed
98-000835	4C	10/07/98	Paul Morris Dr., Englewood	Sandblasting without containment	10/13/1998	no	Citizen	Case Closed
98-000848	114-W	10/09/98	Palmer Blvd. and Noble Rd., Sarasota	Discharge from construction site	10/16/1998	no	Citizen	Case Closed
98-000850	144	10/12/98	3902 Tamiami Trail S., Sarasota	Petroleum tainted floor wash water drains to storm drain	10/16/1998	yes	Citizen	Case Closed
98-000867	106	10/12/98	1461 Brenner Park, Venice	Diesel odor in storm drain	10/21/1998	no	Citizen	Case Closed
Reportable Event	CCU	10/12/98	Entrance to Calusa Lakes	Contractor hit force main, discharge to retention pond	10/12/1998	no	Utility	Case Closed
Reportable Event	Meadowood	10/13/98	On site at plant	Effluent discharge to ditch	10/13/1998	no	Utility	Case Closed
98-000890	115-W	10/15/98	Fruitville Rd. and Coburn Rd., Sarasota	Construction dirt eroding into canal	10/16/1998	no	Citizen	Case Closed
98-000899	45	10/19/98	232 Glen Oaks Rd., Venice	Sewage force main break; 35,000 gallons of raw sewage in swale and lake	10/21/1998	no	County Utility	Case Closed
Reportable Event	VGU East	10/19/98	Redwood lift station	Broken force main; discharge to retention pond	10/19/1998	no	Utility	Case Closed
98-000901	320-A	10/20/98	1500 Casey Key Rd., Casey Key	Well drilling causing red, cloudy puddles	10/26/1998	no	Citizen	Case Closed
Reportable Event	Atlantic	10/26/98	Lift Station 064-084, 5063 Whistletwood Circle	Discharge to storm drain	10/26/1998	no	Utility	Case Closed
Reportable Event	Meadowood	11/01/98	Lift Station 034-003, 3100 Longmeadow	Manhole overflow; discharge at storm drain	11/01/1998	no	Utility	Case Closed

1998 NPDES Incidents and Abnormal Events

Log No.	Grid No.	Date	Location	Description	Resolution Date	Enforcement	Reported By	Case Open / Case Closed
98-000816	39-N	11/02/98	540 Sunset Beach Dr., Venice	Laundry wash water discharge to storm water system	11/03/1998	no	Citizen	Case Closed
Reportable Event	CCU	11/06/98	Lift station 405-276, Bay Lake Estates	Resident turned off alarm in error. manhole overflow; discharge to retention pond	11/06/1998	no	Utility	Case Closed
98-000436	173	11/13/98	4675 Clark Rd., Sarasota	Ammonia spill	11/19/1998	no	Fire Dept	Case Closed
98-000437	322N	11/15/98	1221 Oyster Cove Dr., Sarasota	Silt from construction site	11/19/1998	no	Citizen	Case Closed
98-000578	61	11/16/98	Auto Enhancements, 320 Warfield Ave., Venice	Car washing and detailing	12/04/1998	no	Citizen	Case Closed
98-000588	302	11/18/98	Custom Colors, 1848 Gillespie Ave., Sarasota	Equipment wash water and paint dust leaks to detention pond	12/04/1998	yes	Citizen	Case Closed
98-000593	143	11/20/98	Einstein Bagels, Tamiami Trail S. and Bay Rd., Sarasota	Ugly discharge to storm drain from air conditioner condensate	12/03/1998	no	Citizen	Case Closed
98-000594	144	11/23/98	Southern Express Lube, 3902 Tamiami Trail S., Sarasota	Degreaser drains to storm drain	12/03/1998	no	Citizen	Case Closed
98-000598	250	12/01/98	Main St. and Links Ave., Sarasota	Video viewing of sewer lines; no discharge	12/01/1998	no	Citizen	Case Closed
98-000599	100-N	12/02/98	Brookshire Dr., Nokomis	Tree trimmings dumped in lake	12/03/1998	no	Citizen	Case Closed
98-000603	60	12/04/98	Tamiami Trail N., Venice	Drawbridge bridgehouse leaking sewage into bay	12/24/1998	yes	City Utility	Case Open
98-000605	173	12/07/98	5739 Sarah Ave., Sarasota	Anti-freeze drained to road	12/07/1998	no	Citizen	Case Closed
98-000667	193-S	12/18/98	Fruitville Rd. and Honore Ave., Sarasota	Dewatering from earth moving activities	12/29/1998	no	PCD Staff	Case Closed
98-000473	80	12/18/98	Commercial Surroundings, 603 Church St., Nokomis	Equipment wash water drains to soil	12/30/1998	yes	Citizen	Case Closed
98-000679	145	12/19/98	@3901 Tamiami Trail S., Sarasota	Dewatering from earth moving activities	12/21/1998	no	Citizen	Case Closed
98-000930	315	12/21/98	Sarasota Bay near 40th St. and Bayshore Rd., Sarasota	Storm water pipe discharge reportedly killing horseshoe crabs	12/29/1998	no	Citizen	Case Closed
Reportable Event	City of Sarasota	12/22/98	Margaret Street collection system	Discharge to storm water ditch	12/22/1998	no	Utility	Case Closed
98-000636	80	12/28/98	Commercial Surroundings, 603 Church St., Nokomis	Equipment wash water drains to soil	12/28/1998	no	Citizen	Case Closed

Hazardous Waste Management 1998 Citizen Complaint Log

HAZARDOUS WASTE COMPLAINT NO.	DATE/TIME	LOCATION	MATERIAL/APPROX VOLUME	CURRENT STATUS	EMERGENCY RESPONSE	RESPONSE TO CITIZEN COMPLAINT	LOCATION
906	1/5/1998 915	4214 Wilkinson Road, Sara Ray Howard, Auto Detailing	Complaint of discharging fluids from engine cleaning to the ground for 4 - 5 years.	No signs of oil contamination. Closed.		X Referral from DEP	County
907	1/5/1998 1400	Sawgrass & Center Drainage canal in celery fields	3 55 gallon drums, 2 in canal, 1 on bank. Drum #1 contained 5 gallons solvent based fluid. Drum #2 empty. Drum #3 contained water/ mud.	SWS removed drums from canal. Contents Drum #1 disposed of thru Haz. Waste contract Laidlaw, #3 water/mud emptied into canal. Closed.	X Referral from Pollution Control		County
908	1/9/1998 800	2641 Arlington St, Sarasota	Approx. 55 gallons fuel oil accidentally spilled in back yard	15 tons of contaminated soil excavated and removed from site by Ardaman & Associates, or 11 cubic yards of soil. Closed 2/30/98		X	City of Sarasota
912	1/15/1998 1205	2235 Brookhaven Drive, Sara	Approx. 10 gals. Fuel oil/ water mixture dumped in gutter	Spill extended 150 ft down roadway into stormdrain. Absorbed remaining product from gutter and storm drain, tested for flammability, none detected. Closed.	X		County
914	1/20/1998 1330	SW Corner DeSoto Road and Isabella	10 Gallons roofing tar	Responsible party, Keyworth Contracting, cleaned up area. Closed.		X Citizen reported to Fire Dept	County
916	1/26/1998 1125	Vacant lot behind 1433 Main Street	Diesel fuel spill/contaminated soil originally found along alley way to 1 1/2" and below. Under- ground tank was found, removed.	Over 12 truckloads of dirt removed as of 2/10/98. Need final report.	X BER, Tampa		City of Sarasota
917	1/27/1998 840	2319 Proctor Road Dolphin Equipment	Staining on ground	Did site visit, did not find any stained soils. Dug down 6" behind front fence, did not note staining. Closed.		X Referred from Property Standards	County
918	2/3/1998 1515	6281 E Sawgrass	Report of open paint spraying, discolored ground, in parking lot.	No soil staining was found. Some sanding of primed auto body parts is done outside. Some trade amounts of paint/sanding dust on pavement area outside overhead door to the operation. Sand blasting of auto body parts is done outside on north end of facility. Sand not contained/nor 2 - 3 inches deep in area approx. 10' x 25', adjacent to swale which runs off storm water. Closed 2/9/98		X	County

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920	2/4/1998 1045	2020 19th Street	Approx. 15 gallons kerosene	Requested property owner clean up area approx. 5' x 5', until no further discoloration of soil/odor. Possible disposal of soil at HHCC station. Closed 2/10/98	X SO 87		County
921	2/6/1998	1485 S. Tamiami Trail, Venice Gulf Wind Marina	25 gallon spill of carburetor cleaner	This was an accidental spill to a concrete floor. It was reported by the business. The spill was cleaned up by same business, using containerized clean up kit provided by Safety Kleen. Closed.		X	County/ Venice
924	2/17/1998 1430	Cocoa Plumb/Snowy Canal Intersection, North Port	6 1-gallon containers of motor oil, 3 55-gallon drums (1 had approx. 15 gals. Of product/ water mixed, 2 other drums had residual product and water) Product outboard oil/petroleum distillates.	Drums removed from canal by North Port airport. Booms placed if needed. Responsible party, Mercury Marine, contacted. They will dispose of or DER thru contractor. Closed.	X		North Port
926	2/25/1998 1030	620 Indian Beach Lane, Sarasota	50 Gallon Gas tank containing 20-25 gallons gas/water mixture.	Container washed up on beach. Picked up, mixture taken to BR HW station, put into drum. Closed.		x	City of Sarasota
931	3/9/1998 1330	1055 S. Tamiami Trail Saba Plaza	Unknown persons putting paint in dumpsters at Plaza. Trucks pick up dumpsters unknowingly and paint goes all over truck/parking lot.	Situation discussed w/Mr. Saba, owner of plaza. Letter sent 4/10/98 suggestion fenced in area be secured with lock, tenants be provided with key, City of Sarasota replace dumpster with one with a lid. Closed.		X Referred by Jesse Hubbard, Public Works, City of Sarasota.	City of Sarasota

Hazardous Waste Management 1998 Citizen Complaint Log

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937	3/16/1998	Various: 4641 Talbot Road 5627 Country Walk Lane 3925 Tora Place/Brentford 3919 Tora Place/Brentford 2533 Sesame St 3926 Meadowcreek Drive 3332 Oakhurst Blvd Oaks Subdivision to include: 211 Saratoga Court, Wallis Way, Blue Heron Overlook, Eagles Watch Lane	Solid Waste has received various complaints from citizens about WMI trucks leaking hydraulic oil on streets, and are not cleaning it up.	All sites were visited and evaluated. Referred to Chris Rossbach, BER, who sent certified letter to WMI regional offices. Meeting between Mr. Wong, WMI, and HW staff was held on 4/7/98 to discuss what actions Sarasota County required of WMI to correct past actions and in the future. 5/18/1998 Corrective actions agreed upon. A reporting procedure was set up to inform all county depts involved: WMI to fax discharge report form to Lois Rose, 316-1300. She will notify SW Customer Service, County Road Maintenance, Pollution Control, Risk Mgt, SW Manager. Garbage haulers to be instructed on proper handling of spills.		x Property Standards Terry Barnett Solid Waste Customer Service	County
941	3/20/1998	225 Warfield Road, Venice	Uncapped 55 gallon waste oil drum filled with rain water and discharged to ground.	Property owner, George Weeks, contracted with Ardaman & Assoc. to do soil clean up of area 5 x 6, 3-1/2 to 4' deep. Drum with oily water disposed of thru Howco. Closed 4/29/98		x Observed by HW staff	County/ Venice
942	3/21/1998 1720	633 W. Albee Road/Lyons Bay Nokomis	80 gallon underground fuel oil tank leaking. Area in bay has sheen on it. Ground saturated in area of tank out to seaway where it was seeping through the concrete wall into the bay.	Area w/sheen on water boomed by Nokomis Fire Dept. Recovery company to pump out remaining contents of tank. Pollution Control to work on clean up.	X Fire Dept.		County
947	4/3/1998 1145	Myntka Road/1 Mile past Hancock Road, in river	55 Gallon drum, 10 gallons of oil.	Drum seen floating in river, contents unknown. Not leaking when reported. Bureau of Emergency Response removed drum, found to contain 10 gallons of oil. Oil and drum were taken by Hazardous Waste and properly disposed of. Closed.	X Referred by Bruce Mahoney, Pollution Control		County
948	4/6/1998 1145	3825 Gopher Street	White foam, unknown, coming up thru cracks in garage.	Dennis Laabs advised complainant concrete is probably "chalking", due to subsurface water/acidity reaction. Advised to call a concrete specialist. Closed.		X	City of Sarasota

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950	4/13/1998 1015	400 N. Beneva Road. FS #5	Blood pressure gauge containing mercury broken - not discovered until next day.	Building was closed, emergency response contract, SWS, called in. Clean up performed, 2 55 gal drums of mercury contaminated debris removed, building reopened for occupancy 2/14/98 Closed	x		City of Sarasota
953	4/28/1998 1115	3117 & 3111 Baldwin Ave Todd Schook	Small amount of used oil spilled in SW corner of back yard.	Mr. Schook contacted, told how to properly dispose of used oil and oil contaminated debris. Closed 5/21/98		x Thru DEP BER via Coast Guard via Ben Bowers	County
954	4/26/1998 2015	20 Charleston Circle	15-20 gallons fuel	Ultra-lite plane crashed on property owner's roof. Approx. 15-20 gals fuel spilled. Pilot, James M. Wanless, 9648 Knights Bridge Circle. Property owner, McConnell, arranged clean up through home owners insurance. Soil dug up, put in drums, taken to BR HHC shed, paid for thru Project Green Sweep, \$828, on 5/6/98. DEP okayed clean up, Closed.	x		County
955	5/13/1998 1015	4291 S Tamiami Trail, Venice	Drum, 1 part of 2 part epoxy material. No liquid product left in drum.	Drum inspected, vented drum to release pressure from sun's heat. Empty drum taken to JRTS 5/21/1998		x David Jackson	County/ Venice
958	5/7/1998 1445	3280 Block Spainwood and Kingswood Sarasota	35-40 gallons hydraulic oil	WMI truck had a hydraulic oil spill in Colonial Gables subdivision. Spill checked/no free product in roadway. Referred to Bill Nichols, Transportation.		x Reported by WMI	County
959	5/14/1998 859	1977 Oak View Drive Tarmaron, Sarasota	1 gallon hydraulic oil	WMI truck had a hydraulic oil spill. Spill cleaned up with absorbent by WMI staff. Closed.		x Reported by WMI	County
960	3/16/1998 1000	5627 Country Walk Lane Sarasota	100 feet stained with hydraulic oil	WMI truck had hydraulic oil spill. Spill cleaned up and followed up on 4/15/98. Closed.		x Property Standards	County
961	3/16/1998 1000	3925 - 3919 Tora Place Sarasota	Entire road on east side stained with hydraulic oil	WMI truck spilled hydraulic oil up and down Tora Place. S Not cleaned up, street breaking apart. Referred to DEP. DEP sent Mr. to WMI 3/24/98. Mr. Wong called HW. Meeting w/Mr. Wong/HW, set procedures for future spills. Tora Place pressure washed. Transportation to check road to see if further action required/ 5/1/1998		x Property Standards	County

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962	3/16/1998 1000	2533 Sesame Street Sarasota	Large areas stained with hydraulic oil.	WMI spilled hydraulic oil up and down Sesame St. 5/18/98 - Wmi to schedule repairs to street.		x Property Standards	County
963	3/16/1998 1000	OAKS II Subdivision Various streets	Hydraulic oil spilled throughout complex.	WMI responsible party, to repair streets		X Property Standards	County
964	4/10/1998 900	6750 Bee Ridge road Parking lot behind FS #8	WMI truck broke down in lot, spilled hydraulic oil. Reported to John Wong, WMI.	Absorbent applied and cleaned up. Area pressure washed by WMI on 4/18/98. Closed.	X		County
965	5/21/1998 900	5035 Windward Avenue	Jim's Tractor Service, owner James Constanzer, 966-2907, pulled 2 heating oil tanks. When loaded onto trucks, tanks came apart. Oil was leaked onto roadways leaving the site (Windward Ave, Windward Pl, Higel Ave, Mangrove Point.	Contractor contacted, told he would be responsible for any repair to streets. Info sent to Risk/Transportation/Pollution control 5/21/98			County
967	5/26/1998 1030	7131 Largo Street, Sarasota	3 gallons hydraulic oil	WMI cleaned up spill with absorbent, disposed of property. Closed 5/26/98		x Reported by WMI Info reported to Risk, Trans, Solid Waste.	County
973	6/1/1998	Richardson Rd & Honore Ave.	Semi trailer leaking 2-cycle engine oil left abandoned in roadway. Apparent owner Ernie, 953-4734.	Oil dry applied to spill on ground, placed inside of trailer to absorb product. Absorbent taken to BR collection station by HW staff. Closed 6/1/98	x		County
974	5/8/1998	675 North at Exit 32	Approx. 50 gallons of diesel fuel spilled on ground from accident.	Diversified Env. Services hired by responsible party to clean up spill site. Closed 6/2/98.	x		County
976	6/4/1998	5677 McIntosh Road, Sarasota	Approx. 1 quart oil	Spill area very minimal. Not believed to be generated by business on site, Southern Car Care. Closed 6/15/98			County
979	6/2/1998	4023 Sowyer Road, Sarasota	Transmission oil dumped on ground, in middle of complex in stormwater structure in roadway.	John Ryan, Pollution Control, followed up with Steve Allen, Sarasota Investment Co, HAZMAT had absorbed the spill, contaminated material given to property owner for proper disposal. Closed 6/8/98		x Referred to Pollution Control	County

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984	6/22/1998	Canal just East of Rubens Dr and Davinci Drive,	Hydraulic spill from Transporation Dept ditchdigger, broken line	Booms placed to contain spill to a 70' area of canal. Pads put in place to absorb any oil from surface. Pads and boom to be placed in drum and disposed of thru HW PGS program. Any oil contaminated foliage removed. Closed 6/23/98	x		County
985	6/22/1998	Box of HHW dropped in driveway of Hooser Inn, leaking, 163 S Tamiami	Insignificant amount of leakage	Picked up and taken to BR HHW station 6/22/98		x Russ Baldwin	County/ Venice
987	6/22/1998	3890 Greenway Drive Fairway Crossings Apts	Tenant's vehicle leaking gas in parking lot	Tenant requested to fix leak or remove car from premises. Certified letter sent to owner of car. Letter returned unopened.		x Cindy Simmons	City of Sarasota
989	6/28/1998	1900 Ringling Blvd Bumpers	Unknown quantities of paint cleaning solvents discharged to sewer. Paint contractor, Kelex Construction, 2100 Constitution Blvd., visited on 7/10/98	Joint site visit on 7/2/98 with Haz. Waste/Pollution Control. Some signs of paint being released to storm drain. Visited Kelex, spoke about proper disposal of paint waste. Pollution to follow up. Closed 7/9/98.		x Anonymous complaint to Pollution Control	City of Sarasota
990	6/16/1998	4423 Claremont, Sarasota	2 gallons diesel fuel	WMI spilled fuel from broken hose. Absorbent applied and material disposed of. Closed			County
992	7/14/1998	Tina Island Drive	Contractor painting tile roof. It rained, causing the wet paint to wash off the roof and discharge into the canal. Product was water-based paint.	DEP Emergency Response, since product is water based, nothing can be done to contain in the waterway. Shouldn't have any effect or environmental impact. Notified Pollution Control, Del Sarney in case other complaints are received. Closed.		x Emily Brewer 125 Villa Drive	County
994	7/7/1998	2033 Misty Sunrise Trail, Sara	Approx. 2 gallons hydraulic fluid to ground from broken hose on WMI truck.	Absorbent applied and disposed of. Closed 7/7/98.		x WMI	County
995	7/11/1998	1385 Harbor Drive, Sarasota	Reported leaking above ground leaking fuel tank,	Fuel tank inspected, not found to be leaking. Informed reactor of findings 7/11/98		x	City of Sarasota
997	7/21/1998	Central County Landfill	Approx. 1 gallon hydraulic fluid spilled to ground.	Per Don Shaulis, Landfill, Wmi did not clean up. They do not require any action at this time. Closed 7/21/98		x WMI	County
998	7/27/1998	3605 Lockwood Ridge road Responsible Party Kenneth Kutch, 3223 N Lockwood Ridge Rd, Lot 199. Sara 34237	Approx. 32 gallons of gasoline to the ground.	Boat owner filled wrong container on boat w/gasoline, causing spill to ground. Gas on ground cleaned up with absorbent, placed in 5 gallon containers, contents in boat gravity fed to bottom drain. Responsible party billed for disposal costs \$49.05 Closed 8/2/98	x		County

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999	7/8/1998	6308 Midnight Pass road Crescent Arms Condos	Drum of unknown liquid washed up on beach.	Container picked up and taken to Bee Ridge HHWC station.	x		County
1000	8/4/1998	6306 Bikini, Lake Sarasota	Approx. 1 gallon transmission fluid from WMI truck.	Citizen said spill had not been cleaned up, road was deteriorating. Reported to Transportation for their action 8/7/98.		Mr. Schnering 6306 Bikini 378-4546	County
1004	8/7/1998	2017 ARDEN	Approx. 1 gallon of antifreeze discharged to ground by WMI truck with broken radiator hose	Absorbent applied by WMI and disposed of.		x WMI	County
1006	8/20/1998	Laurel Road/Knights Trail Road	WMI flipped over, spilled 20 gallons diesel and motor oil	Absorbent applied to contain any run-off. Top layer of soil removed and disposed of from roadway and soil. Closed 8/21/98	x		County
1003	8/27/1998	Mission Valley Blvd	Paint spilled starting at Laurel road and continuing approx. 1 mile down Mission Valley Blvd.	HW, Jerry Palmer, followed trail of paint approx. 7/10 mile thru Mission Valley and Catusa Lakes. Could not find person who spilled the paint. Rain partially washed away part of stains.		x Bill Zier, 1430 Ewing St.	County
1009	7/1/1998	Center/Palmer Blvd (Celery Fields)	30 Gallons kerosene, 130 yards contaminated soil	Kimmins Inc uncovered/ruptured 2 underground storage tanks. WES Inc called in to contained, remove and dispose of product. Closed 7/2/98	x Dave Vokus, Transportation		County
1010	8/31/1998	381 Aurora	15 gallons hydraulic fluid released to asphalt on 8/23/98 Asphalt removed by Road & Bridge	Okayed to take asphalt to Central County landfill. Closed		x Road & Bridge	
1014	9/11/1998	Advanced Asphalt Central Avenue/Nokomis	Reported dumping of asphalt trucks on property, rinsing sealers onto ground.	Site visited, most visible releases are on a concrete pad. Told to keep all release on the pad. Closed 9/28/98.		*Ann	County
1015	9/14/1998	1400 Central Ave	Reported refrigerant oil on ground, soil contaminated	Disposal information sent to John Ryan, Pollution control. Closed.		Mr. Brown/Owner	City of Sarasota
1017	9/22/1998	Bee Ridge Road at entrance to Misty Creek	Approx. 80 gallons of diesel spilled on roadway and into stormwater system	Absorbent materials placed in storm drain, fuel on roadway absorbed and placed in drums. Responsible party Jack Andrews, 9305 Fruitville Rd, Sara 34240. Booms/drums removed 9/28. Responsible party Jack Andrews, paid for disposal Oct 19, 1998 Closed.	x Lt Nutter, Special Ops		County
1018	9/21/1998	Riverview High School 1 Ram Way	Unknown quantity of diesel fuel spilled over at fuel tanks at Football Field Maintenance shop area.	Advised Mr. Blanks, Operations/ Facility Manager, to remove contaminated soil until staining/ odor was gone. Advised to send fax with final disposal documents.	Sheriff's Office		County

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1019	10/1/1998	7860 N Leewyn Drive, Sarasota	Unknown quantity of hydraulic fluid leaking in street at this address from WMI truck.	Checked all of Leewyn Drive,, stained found in front of 7860 and house across the street. Info forward to all parties, no free liquids present during visit. Closed		X Gene Tomczak 7860 N Leewyn Dr	County
1020	10/2/1998	Sherwood Forest Blvd and Friar Tuck Lane	Approx. 20 gallons hydraulic fluid from WMI truck discharged to roadway and sides of road.	WMI requested to further clean up the roadside. Sherwood Forest Homeowners Assn. May pursue further cleanup by WMI. Closed		Cindi Little, WMI	County
1022	10/19/1998	Behind 2065 Chuk Avenue	55-gallon drum filled with oil/water	Barrell contained rain water/ no evidence of soil contamination. Closed		Jeff Bare	County
1023	10/21/1998	Jo-Mar Road	Abandoned drum labeled hydraulic oil. Drum filled with water and slight oil contamination.	Drum picked up, disposed of thru oil transporter Closed		Anonymous caller thru Pollution Control	County
1024	10/16/1998	2550 River Road, Myakka Pines Golf Club	On Oct 16, a fire destroyed a detached golf cart storage area. The golf carts contained lead-acid batteries. Runoff water discharged to soil along the north, east and west sides of concrete surface contained lead, contaminating the subsurface of these areas.	106 cubic yards cont. soil removed Batteries/chasis removed Structure demolished/removed 2 permanent monitoring wells New canopy, asphalt, new building constructed Closed 7 Dec 98	X Englewood Fire District, Chief Bonakowski		County
1025	10/22/1998	850 Indiana Avenue	Reported oil dumped onto ground.	No contamination found. Closed		Referral from BER	County
1042	10/16/1998	4684 Country Manor Drive Sarasota	2 gallons hydraulic oil discharged from WMI truck when hose broke.	Absorbent applied and disposed of. Closed.		Cinde Little, WMI	County
1041	10/6/1998	2514 Ashton Road, Sarasota	WMI truck broke hose, discharged 2 gallons hydraulic oil to ground.	Closed Absorbent applied and disposed of		Cinde Little, WMI	County
1044	10/12/1998	Fruitville Road east of McIntosh	WMI truck broke hose, discharged 1/2 gallon hydraulic fluid to ground.	Closed. Absorbent applied and disposed of		Cinde Little, Wmi	County
1043	10/10/1998	1626 Dunbar (rear)	WMI truck broke hose, discharged 2 quarts hydraulic fluid to ground.	Closed Absorbent applied and disposed of			County
1028	11/9/1998	501 N Beneva Road	Report of 40-50 gallons antifreeze poured down the drain, 50 gallons used oil put into garbage	Bob Sellers, DEP, inspected site did not find any evidence of items referenced. Closed 12/15/98		Yodd English 957-0396	City of Sarasota
1029	11/3/1998	Longwood Run, Del Sol, Beauchamp, Vinci	Report of Wmi trucks leaking hydraulic fluid throughout subdivision	Report to WMI, Terry Barton. He will ensure trucks are fixed, streets are repair. Closed 11/17/98		Mrs. Childs 741-7315	County
1030	11/16/1998	3947 Vana Drive Lake Sarasota	WMI truck broke hose, discharged hydraulic fluid all over vehicles, mail box, yard, street. Area approximately 30 x 40 feet	Reported to WMI, Terry Barton They will correct situation to homeowner's satisfaction. Closed 11/17/98		Mr. & Mrs. Calzorzi 377-2853 3947 Vana Drive	County
1031	11/10/1998	2535 Club House Drive Forest Lakes Village	WMI trucks leaking hydraulic oil	Reported to WMI, Terry Barton He will ensure trucks are fixed, streets are repaired. Closed 11/17/98		Ray Burkhardt 922-5363	County
1032	11/16/1998	Middlesex Road and Vana Road	Spill on roadway/side of road appears to be from WMI truck	Reported to WMI, Terry Barton He will clean up area and fix road if needed. Closed 11/17/98		Jerry Palmer, HW	County

Hazardous Waste Management 1998 Citizen Complaint Log

HAZARDOUS WASTE COMPLAINT NO.	DATE/TIME	LOCATION	MATERIAL/APPROX. VOLUME	CURRENT STATUS	EMERGENCY RESPONSE	RESPONSE TO CITIZEN COMPLAINT	LOCATION
1033	11/18/1998	1648 Gillespie, Sarasota Cushman Colors	Report of MEK poured into sewers, from phositizer into retention pond.	John Ryan, Pollution Control, responded to complaint. No indication of chemicals into sewer. However, they do discharge to retention pond from hose off of metal objects once degreaser is applied. Also overspray from paint. Letter to be sent to owner to discontinue discharges Closed 11/19/98		Bob Sellers DEP	City of Sarasota
1037	12/1/1998	7845 Manasota Key Road	One plastic drum, 1/3 full, label reads BF Goodrich specialty 600-Sealant, found in intercoastal by homeowner.	DEP (BER) removed drum, taken to DEP office for neutralization and disposal. Closed 12/2/98		Mr. Chipman 474-4494 7845 Manasota Key	County
1038	12/10/1998	332 N Conrad sarasota	Leaking car battery left in yard	Garbage men picked up Closed		Aileen Davis 953-9754	City of Sarasota
1039	22-Dec-98	1829 32nd St, Sarasota	One jug of muriatic acid leaked combined with fertilizer, into soil.	HAZMAT responded to complaint of fumes leaking into home. Resident ill from fumes. After ventilating, cleaning, sealing of all openings, resident able to move back into home.		x Verna Hall, 355-4011	City of Sarasota
1058	2-Dec-98	4075 Teakwood Lane	Hydraulic stains in street	Reported to WML, Solid Waste, Transportation		x Julianne Sutton 371-1043	County



30B

*Amended
Resolution 98-066*

ORDINANCE NO. 98- 066

AN ORDINANCE OF THE COUNTY OF SARASOTA, FLORIDA, RELATING TO THE CONTROL AND REGULATION OF WATER POLLUTION THROUGHOUT SARASOTA COUNTY, INCLUDING THOSE AREAS OF THE COUNTY LYING WITHIN THE BOUNDARIES OF MUNICIPALITIES, TOWNS, AND CITIES; AMENDING AND RESTATING ORDINANCE NO. 96-020, AS AMENDED; AMENDING SECTION 1 PROVIDING FOR FINDINGS; AMENDING SECTION 2 PROVIDING FOR A TITLE; AMENDING SECTION 3 PROVIDING FOR DEFINITIONS; AMENDING SECTION 4 PROVIDING FOR ADMINISTRATION; AMENDING SECTION 5 PROVIDING FOR THE DUTIES AND POWERS OF THE POLLUTION CONTROL DIVISION; AMENDING SECTION 6 PROVIDING FOR REGULATIONS GOVERNING WASTEWATER FACILITIES OPERATORS; AMENDING SECTION 7 PROVIDING FOR WATER QUALITY TESTING AND POLLUTION STANDARDS; PROVIDING REQUIREMENTS FOR REPORTABLE EVENTS; PROVIDING FOR CONTROL OF UNAUTHORIZED DISCHARGES; PROVIDING FOR CONTROL OF WASTEWATER RESIDUALS DISPOSAL; AMENDING SECTION 8 PROVIDING ENFORCEMENT PROCEDURES; AMENDING SECTION 9 PROVIDING FOR TERRITORIAL APPLICATION; AMENDING SECTION 10 PROVIDING FOR EFFECT OF SARASOTA COUNTY ORDINANCE NO. 96-020 AND ITS AMENDMENTS; AMENDING SECTION 11 PROVIDING FOR CONSTRUCTION AND INTERPRETATION; AMENDING SECTION 12 PROVIDING A SEVERABILITY CLAUSE AND A SAVING CLAUSE; AMENDING SECTION 13 PROVIDING AN EFFECTIVE DATE; CREATING A NEW SECTION 14 PROVIDING FOR AN AUTOMATIC REPEAL DATE; PROVIDING FOR AN EFFECTIVE DATE.

BOARD RECORDS
FILED FOR RECORD

98 SEP -2 PM 3:21

HARVEY E. RUSHING
CLERK OF CIRCUIT COURT
SARASOTA COUNTY, FL

County of Sarasota
Florida
98 SEP -2 PM 3:30

98 SEP -2 PM 3:30

BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF SARASOTA COUNTY, FLORIDA:

SECTION 1. Section 1 of Ordinance 96-020, as amended, is hereby amended as follows:

SECTION 1. FINDINGS OF FACT AND DECLARATION OF POLICY.

A. Chapter 71-913, Florida Laws, Special Acts of 1971, authorizes the Board of County Commissioners ("the Board"), in order to protect the public health, safety, and welfare of the citizens of Sarasota County, to promulgate and adopt, by County ordinance, an air and water pollution code; provides that any County ordinance adopted pursuant to that act shall be applicable and enforceable throughout the entire area of Sarasota County; and prohibits the municipalities, towns, and cities located within Sarasota County from adopting a city, town, or municipal ordinance in conflict with that act, or any County ordinance adopted pursuant to the provisions of that act.

B. Chapter 71-913, Florida Laws, Special Acts of 1971, continues in force and effect under the provisions of Section 3.1 of the Sarasota Home Rule Charter as it relates to the municipalities, towns and cities located within Sarasota County as well as to Sarasota County and permits the County government to combine powers with other governmental entities.

C. Section 403.182, Florida Statutes (F.S.), authorizes each County to establish and administer a delegated local pollution control program if it complies with the Florida Air and Water Pollution Control Act, being Chapter 403, F.S., and provides, among other things, that all local pollution control programs must provide by ordinance for requirements compatible with, or stricter than those imposed by that Act and regulations issued thereunder.

D. It is hereby determined that uniform regulation and control of water pollution throughout the entire area of Sarasota County are required to protect the public health, safety, and welfare of the citizens of Sarasota County, and this Ordinance is enacted pursuant to the authority granted to the County and the Board under Sections 125.01 and 403.182, F.S., Chapter 71-913, Florida Laws, and the Sarasota County Home Rule Charter.

E. It is declared to be the public policy of Sarasota County to conserve the waters of this County and to protect, maintain, and improve the quality thereof for public water supplies, for the propagation of wildlife, fish, and other aquatic life, and for domestic, agricultural, recreational, and other beneficial uses, and to provide that no wastes be discharged into any waters within this County without first being given such degree of treatment as meets the requirements of this Ordinance and/or other such acts or ordinances of this State or County.

F. It is hereby declared and determined that the prevention, abatement, and control of the pollution of the waters of this County are affected with the public interest and the provisions of this Ordinance are enacted for the purpose of meeting the responsibility of local and county government to protect the public health, safety, and welfare of the citizens of this County.

G. The Board of County Commissioners of Sarasota County, Florida, hereby finds and declares that control, regulation and abatement of the activities that are causing or may cause pollution of the water resources in this County, and that are or may be detrimental to human, animal, aquatic, or plant life, or to property, or unreasonably interfere with the comfortable enjoyment of life or property may be stricter and more stringent than State Rule to ensure conservation of natural resources, to ensure continued safe environment, to ensure purity of water, to ensure domestic water supplies, to ensure protection and preservation of the public health, safety, welfare, and well being, and to ensure and provide for recreational and wildlife needs as the population increases and the economy expands.

H. It is the purpose of this Ordinance to control the pollution of water in the streams, bays, lakes, estuaries, Gulf, or underground waters, and to safeguard the peace, health, safety, and welfare of human, animal, marine, and plant life within the boundaries of Sarasota County against water pollution caused by or resulting from any toxic, poisonous, or noxious substances, or from raw or inadequately treated sewage, or any combination thereof.

I. It is hereby found and declared that this Ordinance may provide for stricter, more extensive, and more stringent regulations of water pollution and the control of same than is provided and required under the provisions of Chapter 403, F.S., and the regulations promulgated and adopted thereunder as administered by the Department of Environmental Protection (DEP) of the State of Florida.

J. Policy 3.2.3 of Chapter 4 of Apoxser, the Revised and Updated Sarasota County Comprehensive Plan requires that "a wastewater treatment inspection/compliance monitoring program shall be established for each wastewater treatment facility which mandates on-site inspection/compliance monitoring at least 12 times annually."

K. The State of Florida DEP, formerly the Department of Environmental Regulation (DER), entered into a General Operating Agreement with the Sarasota County Board of County Commissioners on August 24, 1989 to delineate each agency's responsibility and authority concerning environmental programs and activities.

L. The General Operating Agreement provides that delegation of certain permitting, compliance and enforcement activities from DEP to Sarasota County Pollution Control Division ("the Division") be set forth in a Specific Operating Agreement (SOA).

M. The DEP requires Sarasota County to adopt certain provisions of Chapter 120, F.S., and to ensure that State Law and the DEP's regulations concerning wastewater treatment facilities are specifically identified and addressed by adopting the DEP's regulations and state statutes by reference or adopting provisions that are at least as or more stringent than the DEP's regulations or state statutes. This Ordinance generally adopts state laws and the DEP regulations concerning wastewater treatment facilities and other regulations necessary for approval of a SOA with the DEP to include but not be limited to Chapters 62-1, 62-4, 62-7 Part IV, 62-11, 62-28.700, 62-103, 62-160, 62-301, 62-302, 62-520, 62-522, 62-550.310, 62-550.320, 62-555.360, 62-600, 62-601, 62-603, 62-604, 62-610, 62-611, 62-620, 62-625, 62-640, 62-650, 62-699, and 62-701.802, Florida Administrative Code (F.A.C.), and Sections 120.52, 120.525, 120.53, 120.565, 120.569, 120.57, 120.573, 120.574, 120.595, 120.60, 120.62, 120.66, 120.665, 120.68, and 120.69, F.S.

N. Sarasota County has unique soil composition and hydrological characteristics, including a prevalent high ground-water table during the wet season. Based on these facts, it is necessary to impose more stringent requirements for sludge (residuals) landspreading activities than those currently in place under Chapters 62-7, Part IV, and 62-640, F.A.C., to protect the surface and ground waters of the County.

O. Wastewater treatment facilities operate for the benefit of the public. Furthermore, wastewater treatment facilities are highly regulated and have a minimal expectation of privacy.

P. Discharge of improperly or inadequately treated sewage may cause infectious diseases, such as cholera, dysentery, typhoid, amebiasis, aseptic meningitis, myocarditis, and hepatitis, which can result in serious illness or death.

Q. Discharge of improperly or inadequately treated wastewater may also result in harm to the environment including excess nutrient loading, alteration of habitat, irreplaceable loss of natural resources, and degradation of water quality.

R. Unauthorized discharges may pose a threat to public health, safety, and welfare, and to the environment. It is in the best interests of the citizens to make every reasonable effort to abate unauthorized discharges.

S. Pursuant to the Florida Legislature's determination in Sections 376.30 and 403.061, F.S., that the storage, transportation, and disposal of pollutants is a hazardous undertaking, that their discharge poses a great threat to public health and the environment, and that the State's interest in regulating their storage, transportation, disposal, and the cleanup of pollutant discharges outweighs the burden imposed on such facilities, the DEP adopted Chapters 62-761, 62-762 and 62-770, F.A.C. The Board recognizes the importance of the concern and intends to facilitate the delegation of DEP's programs for regulating pollutant storage tanks and the cleanup of contamination from those tanks by adoption of an ordinance to establish a mechanism by which the County can effectively implement and enforce DEP's regulatory standards under its own authority as well as any delegated authority. This Ordinance generally adopts DEP regulations concerning pollutant storage tanks and contamination cleanup including, but not limited to, Chapters 62-761, 62-762, and 62-770, F.A.C.

T. It is the Board's intent to assist in the State's effort to assure protection of surface water and ground water in Sarasota County by the implementation of the standards for construction, installation, maintenance, registration, removal, and disposal of pollutant storage tank systems and the cleanup of contamination from those systems. It is not the Board's intent to implement regulations more stringent than those of DEP in regard to pollutant storage tanks.

U. It is the Board's intent to continue in full force and without interference or interruption, the Pollution Control Program, which is currently implemented through Ordinance No. 96-020, under the provisions of this Ordinance by updating its administration and standards.

V. The Board finds unannounced and frequent inspections by County inspectors are necessary to ensure continuous compliance and further the regulatory scheme of applicable DEP regulations and County ordinances.

W. The Board, sitting as the Land Development Regulation Commission, has reviewed this Ordinance and found it to be consistent with Apoxsee, the Sarasota Comprehensive Plan.

X. Sarasota County Ordinance No. 96-054 provides that Ordinance No. 96-020, as amended, shall be automatically repealed on September 30, 1998, unless the Board adopts an ordinance either ratifying or amending Ordinance No. 96-020.

SECTION 2. Section 2 of Ordinance 96-020, as amended, is hereby restated as follows:

SECTION 2. SHORT TITLE.

This Ordinance is referred to as the Sarasota County Water Pollution Control Code.

SECTION 3. Section 3 of Ordinance 96-020, as amended, is hereby amended as follows:

SECTION 3. GENERAL DEFINITIONS.

A. "Board" means the Sarasota County Board of County Commissioners.

B. "Certificate" means a valid and active Operator Certificate issued by the DEP or Florida Department of Business and Professional Regulation (DBPR) in accordance with the provisions of Chapter 61E12-41, F.A.C., or its successor. For purposes of this Ordinance, "certificate" and "license" shall have the same meaning.

C. "Closely Regulated Facilities" are those facilities permitted or regulated by the provisions of this Ordinance, NPDES Permits, or any DEP Rule cited herein.

D. "DEP" means the Florida Department of Environmental Protection, or its successor.

E. "Director" means the Director of the Sarasota County Natural Resources Department, or any successor department.

F. "Division" means the Sarasota County Natural Resources Department Pollution Control Division, or its successor.

G. "EPA" means the United States Environmental Protection Agency or any successor agency.

H. "Illicit Discharge" means any discharge to a storm water system that is not composed entirely of storm water except discharges pursuant to a NPDES permit.

I. "Inspector" means a Sarasota County Pollution Control Division Environmental Specialist I, II, III or Supervisor, Engineer, or other qualified person.

J. "Local Regulatory Agency" means the Pollution Control Division in the Sarasota County Natural Resources Department.

K. "Manager" means the Manager of the Pollution Control Division in the Sarasota County Natural Resources Department.

L. "NPDES" is an acronym for the National Pollutant Discharge Elimination System, the national program for issuing, modifying, or revoking permits under Sections 307, 318, 402(p), and 405 of the Federal Clean Water Act (CWA), 33 USC1251, et seq.

M. "Operator" means any person who has been issued a Domestic Wastewater Treatment Plant Operator Certificate of Competency (License) by the DEP or DBPR.

N. "Permittee" means the person or entity to which a permit for a wastewater facility is issued by the DEP or Sarasota County. The term "Permittee" shall be functionally synonymous with the terms "owner" and "licensee" but shall not include licensed individuals (e.g., operators) unless they are the person(s) to whom a facility permit is issued by the DEP or Sarasota County. "Permittee" also means the person or entity to which a NPDES Storm Water Discharge Permit is issued by the DEP or EPA.

O. "Person" means any individual person, firm, association, organization, partnership, business, trust, corporation, company, contractor, supplier, installer, user, owner, County, district, or other political subdivision, or any officer or employee thereof.

P. "Residuals" means the solid, semisolid, or liquid residue generated during the treatment of domestic wastewater.

Q. "Storm Water System" means a conveyance or system of conveyances (including roads with drainage systems, streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

1. Designed or used for collecting or conveying storm water;
2. Which is not a combined sewer; and

3. Which is not part of a Publicly Owned Treatment Works as defined in Title 40 of the Code of Federal Regulations (CFR), Section 122.2.

R. "Site of Industrial Activity" means any area or facility used for manufacturing, processing, or storing raw materials, as defined in Title 40 CFR, Section 122.26(b)(14) of regulations of the U.S. Environmental Protection Agency and includes construction activity subject to clearing, grading, and excavating.

S. "Special Master" means a person appointed pursuant to Sarasota County Ordinance No. 93-006 to hold hearings, assess fines, and order mitigation for violations of Sarasota County Ordinances.

T. "Standard Operating Practice" means effective and competent wastewater treatment facility operation that is consistent with the existing facility design and operations manual, manufacturer's equipment specifications, and professionally accepted wastewater treatment facility operation procedures. This definition applies to functions that directly affect facility operations and that can be reasonably controlled by the operator.

U. "Storm Water" means storm water runoff, and surface runoff and drainage.

V. "Unauthorized Discharge" means any discharge to surface water, ground water, or storm water that does not comply with or is not pursuant to a valid Federal, State, or local permit, that violates water-quality standards in Section 7.D. of this ordinance, or is not listed as an exemption in Part II of the current Sarasota County Storm Water NPDES permit.

W. "Wastewater Facility(ies)" means any or all of the following: the collection/transmission system, the treatment plant, and the reuse or disposal system.

X. "Wastewater Treatment Plant" means any plant or other works used for the purpose of treating, stabilizing, or holding wastes.

SECTION 4. Section 4 of Ordinance 96-020, as amended, is hereby amended as follows:

SECTION 4. ADMINISTRATION.

A. Board; Duties and Powers.

The Board shall have the following duties, functions, powers, and responsibilities to:

1. Adopt, revise, and amend, from time to time, appropriate resolutions for the implementation and effective enforcement and administration of this Ordinance, and shall provide for the effective and continuous control and regulation of the environment in the County within the framework of this Ordinance.

2. Adopt a budget, appropriate funds, and accept State appropriations, loans and grants from the Federal Government, and from any other sources, public or private, all of which shall be expended for the purposes of this Ordinance. By resolution the Board shall establish a schedule of fees and special budget category to cover the costs of appeals, processing applications for approval of equipment and facilities, performing inspections, issuing variances and similar services. Monies accumulated from such fees shall be expended for the purposes of this Ordinance and for no other purpose.

3. Perform such other duties, functions, and responsibilities as may become necessary to contribute to the improvement of the control of the environment in Sarasota County.

B. Designation of Inspectors.

1. The Manager shall employ and recommend the designation of inspectors.

2. Pursuant to the recommendations of the Manager, the County Administrator shall designate wastewater facility inspectors who are trained and knowledgeable about wastewater facility operations and maintenance, with the provisions of this Ordinance as amended from time to time and with DEP rules and regulations.

C. Appointment of the Air and Water Pollution Control Advisory Board.

1. There shall be an advisory board of not less than five and no more than seven members. This advisory board shall be known as the Air and Water Pollution Control Advisory Board (Advisory Board) and shall initially consist of the members of the board by the same name established by Ordinance No. 72-37. Successors to the present members or additions to the Advisory Board shall be appointed by the Board. Members of the Advisory Board shall be selected

by the Board on the basis of training, experience, or interest in the field of air and water pollution control, and successors to the present members or additions to the Advisory Board shall be residents of Sarasota County. The members of the Advisory Board shall serve at the discretion of the Board and without compensation. Appointments to the Advisory Board shall be for terms of four years. Members shall be eligible for reappointment for one additional four-year term at the discretion of the Board.

2. At the annual January meeting, the Advisory Board shall elect a Chairman, a Vice Chairman, and a Secretary.

3. The Advisory Board shall hold its annual meeting on the third Thursday in January of each year, at which meeting it shall make recommendations as it may deem appropriate for improvement of air and water pollution control in Sarasota County. Such recommendations shall then be presented to the Board.

4. The Advisory Board shall call and hold such other meetings from time to time upon request of the Board or when deemed appropriate for the purpose of reviewing and making recommendations to the Board on air and water pollution control.

5. Minutes shall be kept of all meetings of the Advisory Board and a copy thereof shall be certified by the Secretary and filed with the Clerk of the Board of County Commissioners.

6. All meetings of the Advisory Board shall be open to the public, and notice of the holding of same shall be published one time in a newspaper of general circulation throughout the district on the Sunday prior to the holding of such meeting. Any meeting so called and held may be adjourned to a subsequent date or dates.

7. The Division shall provide temporary clerical and administrative personnel as may be reasonably required by the Advisory Board for the proper performance of its duties.

D. Advisory Board; Duties and Powers.

The Advisory Board shall have the following duties and powers:

1. Make recommendations to the Board on air and water pollution control, relating to, but not limited to, the Water Pollution Control Code and the Air and Noise Pollution Control Code.

2. Review recommendations of the Division prior to their submittal to the County Administrator and to the Board, and make recommendations to the Division.

E. Rights to Information.

Any information relating to secret processes, methods of manufacture, or production, which may be required, ascertained, or discovered by inspection or investigation, shall not be disclosed in public hearings and shall be kept confidential by the Division and its representatives. Nothing herein shall be construed to prevent the use of such records in judicial proceedings in connection with the prosecution of violations of this Ordinance, when ordered to be produced by appropriate subpoena or by order of the Court. No such subpoena or order of the court shall abridge or alter the rights or remedies of persons affected in the protection of trade secrets or secret processes, in the manner provided by law, and such persons affected may take any and all steps available by law to protect such trade secrets or processes.

SECTION 5. Section 5 of Ordinance 96-020, as amended, is hereby amended as follows:

SECTION 5. POLLUTION CONTROL DIVISION.

A. Right of Inspection.

This Ordinance provides an adequate substitute for notice by limiting the place, time and scope of inspections. Inspections of wastewater or other closely regulated facilities may take place without prior notice during normal business hours as defined below for the purpose of determining compliance with air and water pollution regulations. Inspections of wastewater or other closely regulated facilities may take place outside normal business hours; however, access would be granted by the owner or by legal authorization.

1. Inspectors are authorized to inspect closely regulated facilities at any time between 8:00 a.m. and 5:00 p.m., Monday through Sunday, without prior notice for the purpose of determining compliance with this Ordinance and other ordinances, regulations, and permit requirements that govern water pollution. The inspector may inspect the premises and all devices, contrivances, processes, or operations thereon and the records, charts, readings, and data associated with such processes or operations relevant to the discharge of contaminants to surface water, ground water, or storm water.

2. Inspection of closely regulated facilities may be made at times other than those described in Paragraph 1. above, or Subparagraph 5.c. below, with the owner's permission or legal authorization.

3. It shall constitute a violation of this Ordinance to hamper or interfere with an inspector's official duties.

4. Inspectors shall identify themselves as Sarasota County Pollution Control Division inspectors to facility personnel present during the inspection including owners, operators, or designated representative(s).

5. Inspection of Wastewater Facilities.

a. Inspections shall be made for the purpose of determining compliance with this Ordinance, and DEP or Sarasota County permits and permit conditions, and consent orders. The scope of all compliance inspections shall be limited to these purposes.

b. All wastewater facility owners or operators shall appoint one or more designated representative(s) who are capable of and shall provide or arrange for immediate access to the facility for compliance inspections between 8:00 a.m. and 5:00 p.m., Monday through Sunday, without prior notice.

c. Inspectors shall be authorized to conduct compliance inspections of any wastewater facility, effluent or sludge (residuals) disposal, or reuse site at any time between 8:00 a.m. and 5:00 p.m., Monday through Sunday, without prior notice.

6. Inspection Warrants.

At times other than specified in this Ordinance, and at facilities and other properties that do not require permits and are not otherwise closely regulated, inspection can be made by consent or by means otherwise available by law. If consent is denied or the inspector can justify the failure to seek consent, inspectors may obtain an Inspection Warrant pursuant to Sections 933.20 through 933.30, F.S.

7. Search Warrants.

If statutory grounds exist, or if there is probable cause to suspect a criminal violation, inspectors may contact the appropriate law enforcement personnel to obtain a search warrant and may aid the officer, if required, pursuant to Sections 933.01 through 933.19, F.S.

8. Wastewater Facilities Inspection Reports.

Inspectors may record relevant field observations concerning wastewater facilities and may leave a duplicate copy of the field observations at the facility at the conclusion of the inspection at a location designated by the owner, operator, or designated representative. Upon request, copies of results of laboratory analyses for samples collected by the Division may be mailed to the owner or operator.

9. Failure to Designate Representative or Provide Access.

Failure of an owner or operator of a wastewater facility, effluent or residuals disposal or reuse site to appoint and provide the Manager with a list of one or more designated representative(s) or failure of the designated representative to provide immediate access to the facility shall be a violation of this Ordinance.

B. Compliance Testing.

1. Inspectors shall be authorized to obtain sample(s) or conduct test(s) or order owners or operators to obtain sample(s) or conduct test(s) to determine compliance with this Ordinance.

2. The responsibility to provide adequate sampling facilities shall rest upon the owner of the premises.

3. All compliance testing shall be conducted in accordance with Chapter 62-160, F.A.C., which defines quality assurance and quality control activities.

C. Operating Records Required.

1. A person responsible for the operation of any facility that may be a source of water pollution, as herein defined, shall conduct such tests and maintain such records as prescribed by the Division to give evidence that any discharges are in compliance with this Ordinance. Such test data and records shall include the monitoring data available for all wastewater discharges unless otherwise specified in writing by the Division. Such test data and operating records shall be available at all times for inspection by the Division, and reports that contain these records and data shall be filed with the Division on a regular basis.

2. Copies of all records that are required to be maintained at the facility by DEP regulation, EPA regulation, or County ordinance shall be available for inspection at all times. Any on-site operations and maintenance log book required by DEP or Sarasota County shall be maintained and kept on site in a bound book in a safe and weatherproof location.

D. Corrective Actions and Documentation.

Parties responsible for violations of Section 7 of this Ordinance shall take corrective actions to return to compliance and provide records documenting actions as directed by the Division. Failure to provide records or documentation directed pursuant to this Ordinance is a violation of this Ordinance.

E. Temporary Disconnection of Water Service.

The Division is authorized to order the water purveyor to cease water service to a connection where continued water service will allow an Unauthorized Discharge to continue unabated by the responsible party or party occupying a subject property. This action is only authorized to abate a situation that poses a risk to public health, safety, and welfare as determined by the County, such as sewage, septage, or septic tank system discharge in areas of public access, and where the water service is to a commercial or industrial business or facility, with the exception of a medical service facility. The property owner or responsible party shall commence mitigation, as approved by the Division, of the Unauthorized Discharge within one hour of notification by the Division. When the Unauthorized Discharge remains unmitigated, the water purveyor shall, within one hour of notification by the Division, discontinue such water service. The water purveyor shall, within one hour of notification by the Division, reinstate water service, provided the purveyor has no cause to withhold service. The water customer shall be responsible for any fees for the disconnection or resumption of water service charged by the water purveyor.

SECTION 6. Section 6 of Ordinance 96-020, as amended, is hereby amended as follows:

SECTION 6. DOMESTIC WASTEWATER FACILITY(IES) OPERATORS.

A. Applicability.

Requirements in this Section shall apply to:

1. Persons employed in or conducting the staffing, operation, or maintenance of a domestic wastewater treatment plant or other wastewater facilities.
2. Where applicable, owners or permittees of wastewater facilities.

B. Duties of Operators.

1. An operator is responsible for performing wastewater treatment plant operation and maintenance duties in a responsible and professional manner consistent with standard operating practices. The operator's duties shall include the following:

a. Perform responsible and effective on-site management and supervision of personnel and plant functions including, if applicable, reuse and disposal systems within the operator's responsibility.

b. Submit all required reports in the manner required by the DEP in Rule 62-601.300, F.A.C., and this Ordinance, to the permittee.

c. Report to the permittee and to the Division as soon as possible, but not later than 24 hours following the occurrence, any breakdown or lack of proper function of any facility, equipment, or operation that is causing or is likely to cause unsafe wastewater facility operation, or any discharge of wastewater not in accordance with the limits established by this Ordinance. At the discretion of the Division, a written report may be required to be submitted within five days.

d. Submit accurate reports to the permittee relative to wastewater treatment plant operation, sampling, and laboratory analysis.

e. Maintain an on-site operation and maintenance log that is current to the last operation and maintenance activity for each wastewater treatment plant in a location accessible to 24-hour inspection, and protected from weather damage. The log shall be maintained in a bound book or by electronic means. The log shall contain a minimum of 12 months of data at all times. The log shall include:

- i. Identification of the plant;
 - ii. The signature and certification number of the operator and the signature of the person making entries;
 - iii. Date and time in and out of plant by staff;
 - iv. Specific operation and maintenance activities;
 - v. Tests performed, samples collected, and major repairs made;
- and
- vi. Performance of preventive maintenance and either repairs or requests for repair of the equipment to keep the wastewater treatment plant operating as required by the operation permit.

C. Prohibitions.

The following acts or omissions are prohibited and constitute a violation of this Ordinance:

1. Operating a wastewater treatment plant without a valid certificate.
2. Operating a wastewater treatment plant in a manner inconsistent with standard operating practices, as defined in this Ordinance.
3. Employing any person without a valid certificate to perform the staffing duties of an operator, as provided in Chapter 62-699, F.A.C.
4. Knowingly or negligently submitting misleading, false, or inaccurate information as documentation for certification, laboratory results, or operational reports; or persistently submitting inaccurate or incomplete data or information in documents or reports that are required to be submitted by this Ordinance, including the operation, laboratory, or maintenance reports or logs required to be maintained, signed, or submitted by an operator.
5. Failing to maintain reports or records required of an operator by this Ordinance, or by the DEP.
6. Negligently performing an operator's duties as prescribed in Chapter 61E12-41, F.A.C. Negligence is defined as, but not limited to:
 - a. Performance by or under the personal control of an operator that results in conditions that constitute a threat to public health or the environment; or

b. Providing insufficient attention to wastewater treatment plant operation in a manner that may result in a hazard to the public health or to the environment.

SECTION 7. Section 7 of Ordinance 96-020, as amended, is hereby amended as follows:

SECTION 7. WATER POLLUTION CONTROL.

A. Water Quality Testing.

Testing or analytical procedures to determine compliance or noncompliance with the water criteria provided by this Ordinance, DEP Rule, or permit condition shall be in accordance with methods given in Chapter 62-160, F.A.C. Where other tests or analytical procedures are found to be more accurate, such tests or procedures will be used upon the prior acceptance and approval of the Division.

B. DEP Domestic Wastewater and Water Quality Standards and Regulations.

All provisions of Chapters 376, F.S., (Pollutant Discharge Prevention and Removal), and 403, F.S. (Environmental Control), that relate to the regulation of domestic wastewater facilities, pollutant storage tanks, contamination cleanup activities, and ground- and surface-water quality standards, are herein adopted and incorporated by reference as part of this Ordinance to the same extent and to the same effect as if the provisions of each statute or law had been set out in full. For the sole purpose of addressing enforcement and permitting challenges from the implementation of the Domestic Wastewater SOA entered into between the DEP and Sarasota County, relevant sections of Chapter 120, F.S., are herein adopted and incorporated by reference as part of this Ordinance to the same extent and to the same effect as if the provisions of each section had been set out in full. All rules of the DEP adopted pursuant to such state laws as applied to the regulation of domestic wastewater facilities, pollutant storage tanks, contamination cleanup activities, and surface- and ground-water quality standards, are hereby adopted and incorporated to the same extent and to the same effect as if the provisions of each rule had been set out in full.

C. Reportable Events.

Each permittee or their designee shall report to the Division as soon as possible, but not later than 24 hours following the occurrence, any breakdown or lack of proper function of any facility, equipment, or operation that is causing or is likely to cause unsafe wastewater facility operation, or

any discharge of wastewater not in accordance with the limits established by this Ordinance. A written report may be required to be submitted within five days at the discretion of the Division. This report shall detail the cause, effect, remedial actions taken, actions taken to prevent a recurrence, and other related information about the occurrence.

D. Additional Water Quality Standards for Unauthorized Discharges.

All waters, at all places, at all times, within the territorial limits of Sarasota County shall be free from the following (domestic wastewater facilities regulated by rules adopted in Subsection B of this Section are exempt from these criteria.):

1. **Floating substances.** Floating debris, oil, grease, petroleum products, scum, or other floating material attributable to municipal, industrial, agricultural, commercial, private, or other discharges in sufficient quantity to be unsightly or deleterious.
2. **Settleable substances.** Substances attributed to municipal, industrial, agricultural, commercial, private, or other discharges that will settle to form putrients or otherwise objectionable sludge deposits, including inorganic silt.
3. **Deleterious substances.** Sewage, septage, industrial wastewater, or other materials attributable to municipal, industrial, agricultural, commercial, private, or other discharges producing color, odor, or other conditions in such a degree as to create a nuisance, or in such a degree as to be harmful to the environment.
4. **Toxic substances.** Substances attributable to municipal, industrial, agricultural, commercial, private, or other discharges in concentrations or combinations that are toxic to humans animals, plants, or aquatic life.

E. Unauthorized Discharges.

1. Any direct or indirect discharge from a Site of Industrial Activity to a storm water system that does not comply with, or is not pursuant to, a valid NPDES permit or the provisions of this Ordinance is prohibited.
2. Except as specifically authorized by a valid federal, state, or local permit, the discharge of sewage, industrial waste, or other wastes, whether through runoff, piped connections, seepage, or leaks, into the storm water.

3. No person may maintain, use, or establish any direct or indirect connection to any part of the storm water system that results in any illicit discharge that does not comply with, or is not pursuant to, a valid federal, state, or local permit.

4. No person shall spill, dump, or discharge, or cause to be spilled or discharged, into any storm water conveyance, any materials other than those composed entirely of storm water. Exceptions to this prohibition are those identified in Part II of the current Sarasota County Storm Water NPDES Permit issued by the EPA, and any discharges in compliance with a current individual NPDES Permit.

F. Residuals Landspreading Requirements.

1. The provisions of Chapter 62-640, F.A.C., and this Ordinance shall be followed by all permittees whose residuals are disposed on land in Sarasota County. Permittees of wastewater treatment facilities that meet the standards of Chapter 62-640, F.A.C., and this Ordinance who intend to landspread residuals shall submit an Agricultural Use Plan, DEP Form No. 62-640.210(2)(a), together with a written request and fee for modification of the facility's current DEP wastewater permit, unless exempted pursuant to Rule 62-640.850, F.A.C., (production of Class AA residuals), to the Division and/or the DEP for approval. An approved Agricultural Use Plan shall be made a part of the facility's current operation or construction permit, prior to initiation of landspreading activities. Together with said plans and request for permit modification, certification that documents the ability of the wastewater treatment facility to achieve the minimum residuals stabilization levels required by Chapter 62-640, F.A.C., shall be submitted by a Professional Engineer licensed in the State of Florida.

2. Residuals sampling and analyses, as required in Chapter 62-640, F.A.C., must be performed during periods of representative waste flow into the wastewater treatment plant. Periods of non-representative flows include periods during the off season at seasonal mobile home parks and similar situations.

3. All residuals must meet at a minimum Class B criteria for stabilization, as defined in Chapter 62-640, F.A.C., before being applied to the land.

4. Residuals haulers shall submit hauling records on a monthly basis, due by the 15th day of the month following the month of operation that document the following: source and volume of residuals hauled; date, time, and place (site and spreading zones) of application; weather conditions at time of application; water table measurement below land surface, as determined by the use of monitoring wells or piezometers at representative locations on the site(s); hauler's signature; truck identification; and hauling company. The information shall be submitted on forms and in a manner prescribed by the Division.

5. Pursuant to Chapter 62-640, F.A.C., residuals haulers and permittees of wastewater treatment facilities shall be held responsible for compliance with the landspreading requirements of Chapter 62-640, F.A.C., and this Ordinance.

SECTION 8. Section 8 of Ordinance 96-020, as amended, is hereby amended as follows:

SECTION 8. VIOLATIONS AND ENFORCEMENT.

It is the intent hereof that the civil and criminal penalties imposed by a court, or fines or administrative penalties imposed through execution of this Ordinance be of such amount as to ensure immediate and continued compliance with this Ordinance. The imposition of either a civil or criminal penalty shall not preclude the imposition of the other penalty. The Director is authorized to enter consent orders to resolve violations or alleged violations.

A. Violations.

It shall constitute a violation of this Ordinance for any person or entity to violate or suffer a violation of any rule, standard, or provision incorporated in this Ordinance. Each day during any portion of which such violation occurs shall constitute a separate offense.

B. Civil and Administrative Enforcement, and Penalties.

1. DEP Enforcement Policies.

To the extent that the Division is exercising authority delegated by the DEP under the provisions of a SOA, the Division shall enforce all DEP rules and regulations incorporated into this Ordinance pursuant to the provisions of the SOA.

2. **Sarasota County Code Enforcement Special Master.**

a. Subject to Section 8.B.1., all provisions of this Ordinance may be enforced through the Code Enforcement Special Master process pursuant to Sarasota County Ordinance No. 93-006, as amended, or its successor.

b. The Division may notify the Special Master and request an emergency hearing after a reasonable effort to obtain compliance from the violator is made, if there is reason to believe a violation presents a serious threat to the public health, safety, or welfare, or if the violation is irreparable or irreversible in nature.

3. **Other Remedies.**

Notwithstanding any other provision in the Ordinance, Sarasota County may enforce this Ordinance by any other remedy available at law or in equity, including initiation of enforcement action in a court of competent jurisdiction. In addition, Sarasota County may enforce this Ordinance through adopted administrative procedures. Sarasota County is authorized to initiate any legal means necessary to collect and recover from any owner, operator, person or entity any funds that the County may have expended for action necessary to abate the spread of contamination due to incidents resulting in the discharge of contaminants.

4. **Penalties.**

a. Violations of this Ordinance shall be punishable by a civil penalty of not more than ten thousand dollars (\$10,000) for the first offense, and of not more than ten thousand dollars (\$10,000) for each offense thereafter.

b. All penalties collected as a result of enforcement of this Ordinance shall be placed in the Pollution Recovery Trust Fund defined by Board Resolution No. 91-360, or its successor. The Director is authorized to expend funds from the Pollution Recovery Trust Fund for the purpose, among those stated in Board Resolution No. 91-360, or its successor, of restoring property or water quality on a timely basis necessary to abate the spread of a contamination incident, including other costs directly associated with the disposal of recovered materials.

c. If the DEP and the Division cooperatively undertake an enforcement action, penalties collected pursuant to a consent order may be equally divided between the DEP and the Sarasota County Pollution Recovery Trust Fund.

C. Criminal.

Violations of this Ordinance committed willfully, with reckless indifference, or with gross careless disregard shall be treated as a misdemeanor, and shall be prosecuted and shall be punishable as provided by general law.

SECTION 9. Section 9 of Ordinance 96-020, as amended, is hereby restated as follows:

SECTION 9. AREA OF APPLICATION.

The provision of this Ordinance shall be applicable and enforceable throughout the entire area of Sarasota County, including those areas of the County lying within the boundaries of municipalities, towns, and cities.

SECTION 10. Section 10 of Ordinance 96-020, as amended, is hereby restated as follows:

SECTION 10. EFFECT OF ORDINANCE NOS. 72-37, 75-6, 82-13, 82-25, 82-90, 87-139, 91-54, 93-038, 93-85, and 94-039.

Sarasota County Ordinance Nos. 72-37, 75-6, 82-13, 82-25, 82-90, 87-139, 91-54, 93-038, 93-85, and 94-039 are hereby repealed. However, past violations of prohibitions or standards contained in Ordinance No. 72-37 or its amendments and readopted in this Ordinance shall constitute violations of this Ordinance and are enforceable as all other provisions of this Ordinance. Further, all orders, resolutions, approvals, requirements, and standards imposed pursuant to Ordinance No. 72-37, or that refer to or incorporate the provisions of Ordinance No. 72-37, shall continue in full force and effect where they would be authorized pursuant to this Ordinance.

SECTION 11. Section 11 of Ordinance 96-020, as amended, is hereby restated as follows:

SECTION 11. CONSTRUCTION AND INTERPRETATION.

A. Where any provision of this Ordinance refers to another provision, ordinance, statute, policy, reference, manual, rule, regulation, or other authority, it refers to the most current version, incorporating any amendments thereto or redesignation thereof.

B. It is the purpose of this Ordinance to provide additional and cumulative remedies for the prevention, abatement, and control of the pollution of the air and water of this County. Nothing contained herein shall be construed to impair or restrict the enforcement of stricter, more extensive, and more stringent regulations should same be determined to be applicable to Sarasota County through adoption by any unit of Federal, State, local, or municipal government.

SECTION 12. Section 12 of Ordinance 96-020, as amended, is hereby restated as follows:

SECTION 12. SEVERABILITY CLAUSE.

If any section, sentence, clause, phrase, or word of this Ordinance is for any reason held or declared to be unconstitutional, inoperative, or void, such holding of invalidity shall not affect the remaining portions of this Ordinance; and it shall be construed to have been the intent to adopt this Ordinance without such unconstitutional, invalid, or inoperative part therein; and the remainder of this Ordinance, after the exclusion of such part or parts, shall be deemed to be held valid as if such part or parts had not been included herein.

SECTION 13. Section 13 of Ordinance 96-020, as amended, is hereby restated as follows:

SECTION 13. EFFECTIVE DATE.

This Ordinance shall take effect immediately upon receipt of official acknowledgment from the office of the Secretary of State of Florida that this Ordinance has been filed with said office.

SECTION 14. Ordinance No. 96-020, as amended, is hereby amended to create a new Section 14 as follows:

SECTION 14. AUTOMATIC REPEAL DATE

This Ordinance shall be automatically repealed on September 30, 2005, unless otherwise amended or ratified by the Board.

SECTION 15. EFFECTIVE DATE.

This Ordinance shall take effect immediately upon filing with the Office of the Secretary of State.

PASSED AND DULY ADOPTED BY THE BOARD OF COUNTY COMMISSIONERS OF SARASOTA COUNTY, FLORIDA, this 1st day of September, A.D., 1998.

BOARD OF COUNTY COMMISSIONERS OF
SARASOTA COUNTY, FLORIDA

BY: David R. Mills

ATTEST:

KAREN E. RUSHING, Clerk of the
Circuit Court and Ex-Officio Clerk
of the Board of County Commissioners
of Sarasota County, Florida

BY: Jane Hays

Deputy Clerk

STATE OF FLORIDA
COUNTY OF SARASOTA
I HEREBY CERTIFY THAT THE FOREGOING IS A
TRUE AND CORRECT COPY OF THE ORIGINAL FILES
IN THIS OFFICE WITNESS MY HAND AND OFFICIAL

SEEN THIS DATE 9-2-98
KAREN E. RUSHING, CLERK OF THE CIRCUIT COURT
EX OFFICIO CLERK TO THE BOARD OF COUNTY
COMMISSIONERS, SARASOTA COUNTY, FLORIDA

BY: Jane Hays
DEPUTY CLERK

**A GUIDE FOR CONDUCTING
HIGH-RISK INDUSTRIAL FACILITY INSPECTIONS**



NATURAL RESOURCES DEPARTMENT

Sarasota County Government
Natural Resources Department
Pollution Control Division
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Sarasota, Florida 34232
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INTRODUCTION

The 1987 amendments to the Federal Clean Water Act required that the US Environmental Protection Agency (EPA) implement the National Pollutant Discharge Elimination System (NPDES) storm-water permit program, that began in November 1990. This program requires permits for all point-source storm-water discharges associated with industrial activity related to manufacturing, processing, or raw materials storage areas. A point source is any discernible, confined, or discrete conveyance from which pollutants are or may be discharged, including but not limited to, any pipe, ditch, swale, conduit, container, or collection system.

The Sarasota County Pollution Control Division conducts proactive industrial facility inspections to identify those facilities that may require a NPDES permit. The inspections are conducted to verify compliance with County, State, and Federal environmental regulations. In addition, the program aims to eliminate the potential discharges of pollutants or to require a permit for certain activities that have the potential to discharge pollutants to the municipal separate storm-water system (MS4).

This document has been prepared to provide procedural guidelines in conducting compliance inspections for high-risk industrial facilities, in permit review, and in enforcement.

FACILITY IDENTIFICATION

The following types of facilities have been identified by the US Environmental Protection Agency (EPA) to be included in the identification and inspection program for industrial and high-risk sites:

- (1) Municipal landfills;
- (2) Hazardous waste treatment, storage, disposal and recovery facilities;
- (3) Facilities that are subject to the Emergency Planning and Community Right-to-Know (EPCRA) Title III, Section 313; and
- (4) Other industrial or commercial dischargers that contribute a substantial pollutant loading to the Municipal Separate Storm Sewer System (MS4).

The industrial storm water discharges that are included in the inventory fall into the 11 classes of industrial activities, as defined in the November 1990 regulations under 40 CFR 122.26(b)(14), and outlined in the Sarasota County NPDES Permit No. FLS000004, Part IIA(8)(a), page 15.

The Pollution Control Division maintains an inventory that was developed using the 1996 Directory of Manufacturers in Sarasota County, Florida, and the business list from the Sarasota County Occupational License Division. The database contains the facility name, physical location, drainage

basin, grid number, contact person, telephone number, type of manufacturing activity, primary SIC code, and date that the business was established (Appendix A). The database can then be sorted by several fields such as SIC code or location within the 911 grid system to aid the inspector in developing an inspection schedule. Maintaining the facility inventory list will be an ongoing effort to ensure that the list remains current, correct, and complete. An updated list will be included in each Annual Report submitted to EPA.

PRE-INSPECTION

The inspector attempts to perform the following tasks before an inspection is conducted:

- (1) Records review of Division grid files for past compliance and enforcement history;
- (2) Review industrial activity and potential pollutant sources as listed in the Federal Register; and
- (3) Determine if the facility has a current NPDES permit or has submitted a Notice of Intent (NOI).

The inspector collects field testing and sampling equipment, safety equipment, sample containers, and miscellaneous supplies prior to the inspection.

INSPECTIONS

TYPES OF INSPECTIONS

Proactive inspections - The Pollution Control Division has a proactive inspection program to randomly inspect approximately 30% of the inventoried facilities per year.

Incident response inspections - These inspections include facility inspections that result from a citizen complaint, referral from other regulatory agency, or referral from other local or state agencies.

Inspections are conducted by performing an on-site visit and requesting to speak to the manager or designee. The inspector explains the NPDES program and explains the purpose of the inspection. The inspector requests a tour of the facility both indoors and outdoors and requests to be accompanied by the manager. The inspector should wear any safety equipment that is provided by the facility. Should the manager or designee not be available, a business card is left and an appointment is made at a convenient time for both parties.

OBJECTIVES FOR ON-SITE INSPECTIONS

- (1) Evaluate compliance with applicable County, State, and Federal regulations;
- (2) Determine if a NPDES permit is required at this time;

- (3) Verify primary SIC code;
- (4) Identify existing structural controls (examples include retention/detention ponds, flow diversion structures, vegetative swales, porous pavement, sediment traps, and any soil stabilization or erosion control practices);
- (5) Identify areas or materials that have the potential for contributing pollutants to storm water;
- (6) Inspect storm water drainage areas for evidence of pollutants entering the MS4;
- (7) Determine the potential for illicit connections and discharges; and
- (8) Verify that the facility is taking the necessary measures to properly operate and maintain their system.

AREAS TO INSPECT

During an on-site visit the inspector examines any or all of the following industrial areas or activities:

- (1) Areas around all of the equipment;
- (2) Areas where spills and leaks have occurred in the past;
- (3) Outdoor storage of raw materials, byproducts, or finished products;
- (4) Loading or unloading of dry bulk materials or fluids;
- (5) Outdoor material processing areas;
- (6) Dust- or particulate-generating processes;
- (7) Illicit connections and inappropriate management practices;
- (8) Material handling areas;
- (9) Waste disposal practices;
- (10) Waste generation, storage, treatment, and disposal areas;
- (11) Fueling stations;
- (12) Vehicle and equipment maintenance;
- (13) Vehicle and equipment washing; and
- (14) Above-ground liquid storage tanks.

DOCUMENTATION

All inspectors use a field notebook to record inspection notes, observations, statements, unusual conditions or problems, and general drawings. All photographs, maps, or additional material are kept in the facility file. A NPDES Industrial Facility Inspection form (Appendix B) is used to detail the on-site visit. The following items are documented:

- (1) Date of inspection;
- (2) Name(s) of Division inspector(s);
- (3) Name(s) of facility personnel accompanying inspector;

- (4) Type of facility/operation;
- (5) Primary SIC code and manufacturing process;
- (6) Raw materials stored on site;
- (7) Material handling and storage practices;
- (8) Housekeeping practices;
- (9) Type of waste stream;
- (10) Description of how storm water discharges from the site;
- (11) Any presence of non-storm water;
- (12) Drainage basin; and
- (13) Potential problems and general notes.

POST-INSPECTION

After each inspection, the Division inspector discusses the findings with the facility manager or designee. When requested, the Division provides a copy of the inspection form to the facility. The inspector may take any of the following actions:

- (1) Address non-compliance issues;
- (2) Request voluntary compliance; and/or
- (3) Request corrective actions.

FACILITIES NOT REQUIRING A NPDES PERMIT

Initial inspections will be conducted and all documentation will be completed. The comments will be entered in the database explaining why a permit is not needed at this time. The County will maintain the goal to inspect the facility every 2 years to verify that their operation has continued to remain the same and no permit is required. If the facility changes their operation thus requiring a permit, the inspector will instruct the facility through the permit process.

FACILITIES REQUIRING A NPDES PERMIT

Initial inspections will be conducted and all documentation will be completed. When an inspector makes a determination that a permit is needed, the facility will be provided "A Guide for Point-Source Storm-Water Discharge Permitting" that contains the necessary NPDES permit application forms and instructions. The Division inspector will instruct the facility through the permit process and will:

- (1) Review forms for accuracy and completeness;
- (2) Act as liaison between facility and EPA;
- (3) Follow status of permit application; and
- (4) Review final permit for monitoring requirements.

Although EPA requires that the Storm Water Pollution Prevention Plans (SWPPP) remain on site, the Division requires the facilities to provide copies of their SWPPP to the Division office.

During subsequent inspections, the inspector will review the facility's records to ensure that the following records are kept onsite:

- (1) Copy of the completed NPDES application forms that were submitted to EPA necessary to obtain a storm water permit;
- (2) Copy of the SWPPP;
- (3) Documentation that the facility is performing their own routine inspections; and
- (4) Compliance site self evaluation completed not less than once per year.

When sampling is a permit requirement, the Division requires copies of the Discharge Monitoring Reports (DMR). The reports are reviewed to determine compliance with their NPDES permit requirements. Appendix C gives a table of the monitoring requirements organized by facility type from EPA's General Permit. This table serves as a guide for sampling parameters.

In certain cases the Pollution Control Division may collect samples to verify compliance with State and County water-quality standards and for permitted facilities to verify compliance with their NPDES permit. Division personnel use proper sampling collection, preservation, transportation, and delivery techniques as required by DEP Standard Operating Procedures. All analytical methods adhere to those found in 40 CFR 136. The monitoring program may include the collection of quantitative data on any of the following common constituents:

- (1) pH (grab sample only);
- (2) Total suspended solids (TSS);
- (3) Biochemical oxygen demand, five day (BOD₅);
- (4) Chemical oxygen demand (COD);
- (5) Oil and grease (grab sample only);
- (6) Nitrite + nitrate-N;
- (7) Total kjeldahl nitrogen (TKN);
- (8) Total phosphorus;
- (9) Temperature (grab sample only)
- (10) Any pollutant limited in an existing NPDES permit; and
- (11) Any information on discharges required under 40 CFR 122.21(g)(7)(iii) and (iv).

STORM WATER POLLUTION PREVENTION PLAN

It would be preferable to have the inspector review the facility's SWPPP before performing an onsite visit. The plan contains several elements that can educate the inspector about the facility's industrial processes. The SWPPP should be a comprehensive stand-alone document tailored to the facility's specific operation(s). To aid in the plan preparation, EPA has provided guidance in USEPA, "Storm Water Management For Industrial Activities - Developing Pollution Prevention Plans and Best Management Practices," EPA 832/R/92/006, September 1992. The guidance manual provides several worksheets (Appendix D) that when completed constitute a complete plan. The following elements should be included in the final plan:

- (1) **Member Roster** - The list must identify the individuals who will function as the storm water pollution prevention team, and must identify their responsibilities (Appendix D, worksheet #1).
- (2) **Site Map** - The map should include a footprint of all buildings, structures, paved areas, and parking lots. The site map should include the following details; (1) all outfalls and storm water discharges; (2) drainage areas of each storm water outfall; (3) structural storm water pollution control measures; (4) name of receiving waters; (5) locations of past spills and leaks; (6) locations of exposed significant materials; and (7) locations of high-risk, waste-generating areas and activities common to industrial sites (Appendix D, worksheet #2).
- (3) **Material Inventory** - The inventory should contain all materials used, stored, or produced onsite (Appendix D, worksheet #3).
- (4) **Description of Exposed Significant Material** - The description should include the materials that have been exposed to storm water during the past three years (Appendix D, worksheet #3A).
- (5) **List of Significant Spills and Leaks** - The list should include all spills and leaks that have occurred in the three years prior to the effective date of the permit (Appendix D, worksheet #4).
- (6) **Non-Storm Water Discharge Assessment and Certification** - The assessment should identify any illicit connections or non-storm water discharges (Appendix D, worksheet #5).
- (7) **Non-Storm Water Discharge Assessment and Failure to Certify Notification** - This form is used when the outfall has not and/or can not be tested or evaluated (Appendix D, worksheet #6).

- (8) Pollutant Source Identification - All storm water pollutant sources should be identified. In addition, the existing management practices and best management practices should be listed (Appendix D, worksheet #7).
- (9) Best Management Practices (BMPs) - The list should contain a brief description of the activity and/or site-specific BMPs selected by the facility (Appendix D, worksheet #7a).
- (10) Implementation - The list should contain a schedule proposed by the facility that outlines the implementation of each BMP (Appendix D, worksheet #8).
- (11) Employee Training - The facility should describe their employee training program (Appendix D, worksheet #9).

The SWPPP should be reviewed by the facility at least annually to ensure that it reflects the current conditions at the site.

SPECIAL REQUIREMENTS FOR RCRA SECTION 313 FACILITIES

EPA has determined that the following requirements be added due to the increased potential to degrade water quality of the receiving waters:

- (1) Monitor storm water from the facility that comes into contact with any equipment, tank, container, or other vessel or area used for storage;
- (2) Have appropriate containment, drainage control, and diversionary structures;
- (3) Prevent discharges from all areas;
- (4) Describe all activities in the SWPPP;
- (5) Require additional training and spill prevention procedures; and
- (6) Sample semiannually.

ENFORCEMENT

TYPES OF ENFORCEMENT

INFORMAL

- (1) Personal contact (communication with violator/permittee);
- (2) Field Warning Notice; or
- (3) Noncompliance Letter.

FORMAL

- (1) Notice of Violation;
- (2) Affidavit of Violation (Local Code Enforcement);
- (3) Affidavit of Recurrence (Local Code Enforcement); or
- (4) Court Complaint (judicial process).

INITIATING ENFORCEMENT

Enforcement actions are initiated by investigative staff (generally ES-I inspectors). Violations are identified and documented through on-site inspection or file records review. Staff initiates enforcement actions with the submittal of the Pre-enforcement Decision Report to the ES-III enforcement coordinator for water quality noncompliance issues or violations. The Pre-enforcement Decision Report is submitted within seven days of the violation findings. Staff makes a recommendation for the type of enforcement based on the severity of the violation and the past noncompliance history of the facility or violator. The Water-Quality Section Supervisor approves all informal and most formal enforcement action recommendations for water-quality violations. The Pre-enforcement Decision Report will be returned to the inspector to prepare a draft document. Draft enforcement documents are due to the ES-III enforcement coordinator within seven days of approval of the recommendation on the pre-enforcement decision report or as directed by the Supervisor.

ENFORCEMENT DOCUMENTS

INFORMAL ENFORCEMENT DOCUMENTS

For minor violations or suspected violations lacking substantial evidence, the inspector may use a personal contact, a Field Warning Notice, or a Noncompliance Letter to resolve the issues. If the violation is corrected within the specified time, no further enforcement is taken and the issue is resolved. Draft Noncompliance Letters are reviewed by the ES-III and the Supervisor. The Noncompliance Letter is sent under the inspector's signature and the signatory is responsible for final word processing and quality check. Corrective actions requested in Field Warning Notices and Noncompliance Letters are tracked on the Division's Action Management System (AMS) by the ES-III.

FORMAL ENFORCEMENT DOCUMENTS

For major violations, the inspector may use formal enforcement actions. Draft Notices of Violation (NOVs), Affidavits of Violation (AOVs), and Affidavits of Recurrence (AORs) are always reviewed by the ES-III enforcement coordinator and the Supervisor. NOVs, AOVs, and AORs may be reviewed by the Manager at his discretion or through recommendation of the Supervisor. The Water-Quality Section Supervisor is responsible for final word processing and quality checks for NOVs, AOVs, and AORs. All NOVs, AOVs, and AORs will be routed by the Supervisor to the General Manager for final approval of enforcement actions. Corrective actions defined in formal enforcement actions are tracked on the Division's AMS by the ES-III.

NOTICE OF VIOLATION (NOV)

- (1) Begins a formal enforcement process.
- (2) NOV describes each violation, states the specific Rule, cites, and requests corrective actions within a specified time frame.
- (3) The NOV may lead to the Code Enforcement process. Evidence for violations cited in a NOV must be reliable, substantial, and enforceable.

AFFIDAVIT OF VIOLATION (AOV)

- (1) Used when compliance or corrective actions are not obtained through the NOV for specific violations or corrective actions cited in the NOV.
- (2) Sets an evidentiary hearing before the Code Enforcement Special Master, which may result in a Compliance Order and a due date for compliance. A status hearing is generally scheduled to determine compliance with the conditions of the Order.
- (3) If compliance is not obtained by the date given on the Order, a penalty hearing will be set to assess daily fines.

AFFIDAVIT OF RECURRENCE (AOR)

- (1) The compliance conditions set forth in a Compliance Order from the Code Enforcement Special Master are in effect for five years.
- (2) Any violation of this Order can result in an AOR, and immediate daily fines until compliance with the Order is again obtained.

COURT COMPLAINT (JUDICIAL PROCESS)

- (1) May be filed to obtain an injunction that requires the violator/permittee to cease a particular activity, or if the violator/permittee will not agree to negotiation or other reasonable settlement.

(2) May be recommended when:

- there is an immediate need for injunctive relief.
- there is a need for civil penalties for violations and the respondent is unwilling to agree on an appropriate amount.
- the respondent is recalcitrant and ignores any order of the Division or the Code Enforcement Special Master.

(3) All Court Complaints or use of judicial processes must be approved by the Division Manager, General Manager, and the Office of the County Attorney.

Draft



**A GUIDE FOR POINT-SOURCE STORM WATER
DISCHARGE PERMITTING FOR INDUSTRIAL FACILITIES**



SARASOTA COUNTY

NATURAL RESOURCES

Pollution Control Division
1301 Cattleman Road, Bldg. B
Sarasota, Florida 34232
(941) 378-6128
FAX (941) 378-6563
SUNCOM 522-6128

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INTRODUCTION

This document has been prepared as guidance for the submittal of applications for the permitting of National Pollutant Discharge Elimination System (NPDES) regulated facilities in Sarasota County Florida.

The 1987 amendments to the Federal Clean Water Act required that the US Environmental Protection Agency (EPA) implement the NPDES Storm Water Permit program, which began in November 1990. This program requires permits for all point-source storm water discharges associated with industrial activity. A point source is any discernible, confined, or discrete conveyance from which pollutants are or may be discharged, including but not limited to, any pipe, ditch, swale, conduit, container, or collection system.

The NPDES rule contained in the Code of Federal Regulations, Title 40, Part 122 (40 CFR, Part 122) requires a permit for storm water discharges associated with certain sites of **industrial activity** related to manufacturing, processing, or raw materials storage areas. The rule lists Standard Industrial Classification (SIC) codes and Narrative Descriptions for industries that may require a NPDES storm water discharge permit. NPDES permits for industrial facilities were required as of October 1, 1992. Federal regulations have identified by SIC code ten different major industrial categories that are associated with industrial activity. The EPA identified an eleventh category for "light" industries that would require a NPDES storm water permit if pollutants were exposed to storm water.

In March 1997, the Sarasota County Pollution Control Division began a proactive industrial facility inspection program to identify those facilities that may require a NPDES permit. The Division will conduct facility and storm water system inspections, and will verify compliance with County, State, and Federal environmental regulations.

During the permitting process, Pollution Control Division personnel can act as a liaison between the applicant, the Florida Department of Environmental Protection (DEP), and the EPA. To assist you with the permitting process, the following materials are attached:

- (1) Eligibility requirements for permit coverage (Appendix A);
- (2) Notice of Intent (NOI) form for coverage (Appendix B);
- (3) Addendum H endangered species guidance (Appendix C);
- (4) EPA guidance document to assist in writing your Storm Water Pollution Prevention Plan and in implementing the appropriate Best Management Practices (Appendix D);
- (5) Section of the Multi-Sector General Permit specifying the storm water regulations applicable to your industry. Please read this information carefully to determine storm water discharge monitoring requirements for your facility (Appendix E) and;
- (6) Notice of Termination (NOT) form for termination of coverage in the event this is necessary in the future (Appendix F).

This document summarizes the requirements and provides the necessary forms to obtain a Multi-Sector General Permit. Please contact the Sarasota County Pollution Control Division, 1301 Cattlemen Road, Bldg. B, Sarasota, Florida 34232-6299, (941) 378-6128 for additional information.

LOCAL GOVERNMENT REQUIREMENTS

The Sarasota County Water Pollution Control Code, Ordinance No. 96-020, as amended, provides the County with a mechanism to ensure that water resources are protected throughout Sarasota County, including the Cities of Sarasota, Venice, North Port, and the Town of Longboat Key.

Ordinance No. 96-020, as amended, specifies that all waters, at all places, at all times, within the territorial limits of the County be free from floating, settleable, deleterious, and toxic substances. The Unauthorized Discharges Section of the ordinance regulates the discharge of prohibited substances, illicit connections, and spilling or dumping of wastes. All of these activities have the potential to discharge pollutants to the storm water system that may cause detrimental impacts on the environment.

The EPA issued a NPDES municipal storm water permit to Sarasota County and several co-permittees on January 1, 1995. As required by that permit, the Pollution Control Division developed and implemented a proactive monitoring program to inspect high-risk industrial facilities. Random high-risk industrial facility inspections are conducted within unincorporated Sarasota County and the City of Sarasota. Several objectives are met during on-site inspections, such as:

- (1) Evaluating compliance with applicable County, State and Federal regulations;
- (2) Determining if a NPDES permit is required at the time of inspection;
- (3) Verifying primary SIC code;
- (4) Identifying existing structural storm water controls;
- (5) Identifying areas or materials that have the potential for contributing pollutants to storm water;
- (6) Inspecting storm water drainage areas for evidence of pollutants entering the municipal separate storm sewer system (MS4);
- (7) Determining the potential for illicit connections and discharges; and
- (8) Verifying that the facility is taking the necessary measures to properly operate and maintain their storm water system.

All documentation is recorded on a "NPDES Industrial Facility Inspection" standardized form. After an initial inspection, it may be determined that your facility requires a NPDES storm water discharge permit. If this is the case, your facility may qualify for the Multi-Sector Group Permit (other permit options are also available).

NOTICE OF INTENT (NOI) TO USE A GENERAL PERMIT

COMPLETING THE NOI FORM

Instructions for completing the NOI under a NPDES Multi-Sector Group Permit are located on the reverse side of the form. Appendix B contains a copy of this form. Please type or print the required information using upper-case letters. Additional information is provided below to assist you in completing the NOI.

SECTION I - PERMIT SELECTION

Check the box labeled Multi-Sector (Group Permit).

Multi-Sector (Group Permit)

SECTION II - FACILITY OPERATOR INFORMATION

Provide the name, phone number, and address of the operator of the facility. Fill in the box labeled Status of Owner/Operator (refer to the reverse side of the application to choose the appropriate letter).

SECTION III - FACILITY/SITE LOCATION

Provide complete facility location information. Disregard the last line of this section unless your facility lacks a street address. Indicate whether or not the facility is located on Indian Lands.

Facility is located on Indian Lands

SECTION IV - SITE ACTIVITY INFORMATION

- Municipal Separate Storm Sewer System (MS4) Operator Name - This is Sarasota County.
- Receiving Waterbody - This information is only filled in if storm water discharges directly to a receiving water(s).
- Filing as a Co-permittee - Complete this part only if you are filing as a co-permittee and a permit number has been previously issued.

- Standard Industrial Classification (SIC) Codes or Designated Activity Code - Provide the four-digit codes that best represent the primary and secondary principal products or activities occurring on the site. For assistance in determining the correct code, contact the Pollution Control Division.
- Is the Facility Required to Submit Monitoring Data? - Contact the Pollution Control Division for assistance.
- If You Have Another Existing NPDES Permit - Enter the permit number or the application number if no permit has been assigned.
- Multi-Sector Permit Applicants Only - Answer the questions either Y or N. Contact the Pollution Control Division for assistance with these three questions.

SECTION V - ADDITIONAL INFORMATION REQUIRED FOR CONSTRUCTION ACTIVITIES ONLY

This section applies only to construction sites and does not need to be completed.

SECTION VI - CERTIFICATION

Read the reverse side of the form carefully to determine who should legally sign the application. Each facility should fall into one of three categories:

- (1) corporation;
- (2) partnership or sole proprietorship; or
- (3) municipality, State, Federal, or other public facility.

SUBMITTING THE COMPLETED NOTICE OF INTENT (NOI) FORM

Your completed NOI form should be sent to the US EPA processing center at the following address:

US EPA
Storm Water Notice of Intent (4203)
401 M Street, S.W.
Rm. #2104 Northeast Mall
Washington, D.C. 20460
(202) 260-9541

and a copy of the NOI should be submitted to Sarasota County as the operator of the MS4 at the following address:

Sarasota County Natural Resources
Pollution Control Division
1301 Cattlemen Road, Bldg. B
Sarasota, FL 34232-6299.

There is no fee for submitting the NOI form and permit coverage begins two days after the postmarked date to EPA. The EPA will notify you that it has received the NOI and will provide you with a permit number.

The Pollution Control Division personnel will review the NOI application for accuracy and completeness. If the NOI is not complete, Division personnel will contact you for clarification or additional information. Please provide the Pollution Control Division office with the permit number and copies of any correspondence received from EPA.

Additional information concerning EPA requirements can be accessed on the world wide web at <http://www.epa.gov/owm/egp.htm>. If you log onto this website, go to the Office of Waste Water Management section and look for updates on the Multi-Sector General Permit.

STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

Storm water discharge permittees are required to develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP should be a comprehensive stand-alone document tailored to the facility's specific operation(s). The SWPPP must be developed and implemented shortly after submitting the NOI form. A copy of the SWPPP must remain on site at all times and be available on request during inspections. The SWPPP requires the selection and implementation of Best Management Practices to prevent or reduce the pollution in storm water runoff from your site.

To aid in the SWPPP preparation, EPA has provided guidance in USEPA, "Storm Water Management For Industrial Activities - Developing Pollution Prevention Plans and Best Management Practices," October 1992. Before you begin to write your SWPPP, please refer to the guidance document included in Appendix D. The guidance manual provides several worksheets that, when completed, constitute a complete SWPPP. The following elements should be included in the final SWPPP:

- (1) Member Roster - The list must identify the individuals who will function as the storm water pollution prevention team, and must identify their responsibilities.
- (2) Site Map - The map should include a footprint of all buildings, structures, paved areas, and parking lots. The site map should include the following details; (a) all outfalls and storm water discharges; (b) drainage areas of each storm water outfall; (c) structural storm water pollution control measures; (d) name(s) of receiving water(s); (e) locations of past spills and leaks; (f) locations of exposed significant materials; and (g) locations of high-risk, waste-generating areas and activities common to industrial sites.
- (3) Material Inventory - The inventory should contain all materials used, stored, or produced onsite.
- (4) Description of Exposed Significant Material - The description should include the materials that are or have been exposed to storm water during the past three years.
- (5) List of Significant Spills and Leaks - The list should include all spills and leaks that have occurred in the three years prior to the effective date of the permit.
- (6) Non-Storm Water Discharge Assessment and Certification - The assessment should identify any illicit connections or non-storm water discharges.
- (7) Non-Storm Water Discharge Assessment and Failure to Certify Notification - This form is used when the outfall has not or can not be tested or evaluated.
- (8) Pollutant Source Identification - All storm water pollutant sources should be identified. In addition, the existing management practices and best management practices should be listed.

- (9) **Best Management Practices (BMPs)** - The list should contain a brief description of the activity and/or site-specific BMPs selected by the facility.
- (10) **Implementation** - The list should contain a schedule proposed by the facility that outlines the implementation of each BMP.
- (11) **Employee Training** - The facility should describe their employee training program.

The SWPPP must be reviewed by the facility at least annually to ensure that it reflects the current conditions at the site. An example of a completed model SWPPP, prepared by EPA, is provided in the guidance document included in Appendix D.

MONITORING REQUIREMENTS

A copy of the applicable section of the Multi-Sector General Permit (Appendix E) contains the monitoring requirements for your facility. The Multi-Sector General Permit contains three different types of monitoring provisions depending on the type of industrial activity. These types of monitoring are referred to as visual examination, analytical monitoring, and compliance monitoring.

VISUAL EXAMINATION OF STORM WATER

Almost all facilities covered by the Multi-Sector General Permit are required to perform visual examinations of their storm water discharges on a quarterly basis. Facility operators should examine a sample collected within the first 30 minutes of discharge resulting from a storm event that is greater than 0.1 inches in magnitude and occurs at least 72 hours from the previous measurable storm event. Documentation should include the presence or absence of any color, odor, clarity, oil sheen, floating solids, suspended solids, settled solids, foam, and any other observations. The results should be documented in the pollution prevention plan and kept onsite. A facility is not required to submit the visual examination results unless required to do so by the EPA. The visual examination can be an inexpensive means of obtaining a rough assessment of the storm water quality. The results should be used by the facility to identify problems and to verify that the implemented BMPs are effective. In cases where facilities are inactive or unstaffed during rain events, visual monitoring may be waived.

ANALYTICAL MONITORING REQUIREMENTS

A number of facilities are required by the Multi-Sector General Permit to perform analytical monitoring of their discharges. Analytical monitoring is required only for the industry sectors or subsectors that are determined by the EPA to have a high potential to discharge a pollutant at concentrations of concern.

Analytical monitoring is designed to provide some feedback for a facility operator to assess the effectiveness of the pollution prevention plan and to improve the plan if necessary. Analytical monitoring is typically required to be performed by the permittees on a quarterly basis during years two and four of the permit.

The results of the quarterly grab samples collected in the second year of the permit coverage must be averaged and compared to the benchmark values for the pollutants. Averaged concentrations less than or equal to the benchmark concentrations for each pollutant are not subject to monitoring requirements for the remainder of the permit coverage. Facilities with average pollutant concentrations that are higher than benchmark values must review and revise their pollution prevention plan, and must monitor their discharges on a quarterly basis during the fourth year of permit coverage. Monitoring results from years two and four should be submitted to the EPA Region IV Office at the following address:

US EPA Region IV
Surface Water Permits Section
Water Management Division
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303-8909

and submitted to Sarasota County Pollution Control Division at the following address:

Sarasota County Natural Resources
Pollution Control Division
1301 Cattlemen Road, Bldg. B
Sarasota, FL 34232-6299.

COMPLIANCE MONITORING

An additional type of monitoring is required for discharges subject to numeric effluent limitation guidelines. Compliance monitoring is required to ensure that a facility's pollutant discharge concentration is less than or equal to the numeric limits established for that pollutant. On an annual basis, grab samples should be collected within the first 30 minutes of discharge. Results from compliance monitoring may also be used to meet the quarterly analytical monitoring requirements for the specified pollutants, where compatible. Results of the compliance monitoring should be submitted to the EPA Region IV Office at the following address:

US EPA Region IV
Surface Water Permits Section
Water Management Division
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303-8909

and submitted to the Sarasota County Pollution Control Division at the following address:

Sarasota County Natural Resources
Pollution Control Division
1301 Cattlemen Road, Bldg. B
Sarasota, FL 34232-6299.

NOTICE OF TERMINATION (NOT) OF COVERAGE BY GENERAL PERMIT

COMPLETING THE NOT FORM

Instructions for completing the NOT form are located on the reverse side of the form. Appendix F contains a copy of this form. Please type or print the required information using upper-case letters. Additional information is provided below to assist you in completing the NOT form.

SECTION I - PERMIT INFORMATION

Provide the existing NPDES Storm Water permit number. Select the appropriate reason for submitting the Notice of Termination.

SECTION II - FACILITY OPERATOR INFORMATION

Provide the name, phone number, and address of the operator of the facility.

SECTION III - FACILITY/SITE LOCATION INFORMATION

Provide complete facility location information.

SECTION IV - CERTIFICATION

Read the reverse side of the form carefully to determine who should legally sign the form. Each facility should fall into one of three categories:

- (1) corporation;
- (2) partnership or sole proprietorship; or
- (3) municipality, State, Federal, or other public facility.

SUBMITTING THE COMPLETED NOTICE OF TERMINATION (NOT)

Your completed NOT form should be sent to the US EPA processing center at the following address:

US EPA
Storm Water Notice of Intent (4203)
401 M Street, S.W.
Rm. #2104 Northeast Mall
Washington, D.C. 20460
(202) 260-9541

and a copy of the NOT should be submitted to Sarasota County as the operator of the MS4 at the following address:

Sarasota County Natural Resources
Pollution Control Division
1301 Cattlemen Road, Bldg. B
Sarasota, FL 34232-6299.

There is no fee for submitting the NOT form.

The Pollution Control Division personnel will review the NOT form for accuracy and completeness. If the NOT form is not complete, Division personnel will contact you for clarification or additional information. Please provide the Pollution Control Division office with copies of any correspondence received from the EPA.

LIST OF CONTACTS

Sarasota County Pollution Control Division

Name	Title	Function
J. Kent Kimes, P.E.	Manager	Program Administrator
Laura Lyn Ammeson	Environmental Supervisor	Section Supervisor
John Ryan	Environmental Specialist III	Program Coordinator
Kerry Longworth	Environmental Specialist II	Permit Coordinator

NOTE: TO CONTACT THE POLLUTION CONTROL DIVISION FOR INFORMATION OR IF YOU HAVE ADDITIONAL QUESTIONS, PLEASE CALL (941) 378-6128.

"Dedicated to Quality Service"



Chapter 29.5

SITE IMPROVEMENTS—ENGINEERING DESIGN CRITERIA

***Editor's note**—Section 10 of Ord. No. 89-3278, adopted Jan. 17, 1989, added ch. 39 to the Code. In order to maintain alphabetical sequence of chapter titles, the editor has redesignated the chapter as 29.5 under authority granted by Sec. 1-9 of this Code.

Sec. 29.5-1. Development of engineering design criteria manual.

Sec. 29.5-2. Adoption of engineering design criteria manual by reference.

Sec. 29.5-3. Compliance with city Code and engineering design criteria manual—Required.

Sec. 29.5-4. Same—Review by city engineer.

Sec. 29.5-5. Future right-of-way lines.

Sec. 29.5-6. Property without improved access.

Sec. 29.5-7. Curb cuts and driveways.

Sec. 29.5-8. Erosion and siltation control.

Sec. 29.5-1. Development of engineering design criteria manual.

The city engineer shall develop an engineering design criteria manual to establish uniform practices, with the intent to protect the public safety, in accordance with good engineering practices. The city engineer shall periodically update the manual. Changes to the manual shall be presented to the city commission for approval.

(Ord. No. 89-3278, Sec. 10, 1-17-89)

Sec. 29.5-2. Adoption of engineering design criteria manual by reference.

There is hereby adopted, by reference, the Engineering Design Criteria Manual of the City of Sarasota, Florida, two (2) copies of said manual having been placed on file with the city auditor and clerk, identified as official copies, and which shall be kept available for public use, inspection or examination. All published copies of the engineering design criteria manual shall include a notation that said manual was officially adopted by the city commission on the seventeenth day of January, 1989, by the adoption of Ordinance No. 89-3278.

(Ord. No. 89-3278, Sec. 10, 1-17-89)

Sec. 29.5-3. Compliance with city Code and engineering design criteria manual—Required.

All multiple-family developments, commercial developments, professional office building developments, industrial developments, and parking lots shall comply with the applicable provisions of this Code and the engineering design criteria manual.

(Ord. No 89-3278, Sec. 10, 1-17-89)

Sec. 29.5-4. Same--Review by city engineer.

(a) All site improvement plans for the future construction of multiple-family developments, including two (2) or more duplexes, apartments, cluster housing and similar multiple-family types of use, commercial buildings, office buildings, industrial developments, and parking lots shall be referred to and shall be reviewed by the city engineer for compliance with the applicable criteria of this Code and the engineering design criteria manual.

(b) A certification by the city engineer that submitted plans comply with the criteria of this Code and the engineering design criteria manual shall be required as a condition to the issuance of any building permit relating to a project. To remain valid, construction of site improvements shall commence within one (1) year of the city engineer's certification. For phased or staged developments, the criteria used for review shall be the current criteria that are applicable at the time any particular phase or stage of development commences, if the one-year commencement period has passed.

(c) Exemptions from the requirements of subsections (a) and (b) above shall be granted under the following circumstances:

(1) *Single-family homes and duplexes.* A proposed individual single-family home or an individual duplex. However, site improvements pertaining to the single-family home, or a duplex, shall conform to all other requirements of this Code; and the city engineer shall have the authority to require that the owner demonstrate, to the satisfaction of the city engineer prior to the issuance of a building permit, that the proposed site improvements will be in conformity with this Code.

(2) *Minor additions or alterations to existing developed property.* A property owner seeking to make a minor addition or alteration to an existing developed property, except as otherwise required by this Code. For the purposes of this subsection, a minor addition or alteration shall mean up to a fifty (50) percent increase to existing gross floor area or up to a fifty (50) percent increase to existing vehicular use area, provided the increase in the total of the additional gross floor area and additional vehicular use area is fifteen hundred (1,500) square feet or less, and provided that the cumulative total of separate increases to existing gross floor and vehicular use area, over a period of ten (10) years, shall not exceed three thousand (3,000) square feet.

(d) All plans submitted to the city engineer shall bear the seal of a registered engineer who

is duly licensed to practice in the state. Prior to the issuance of a certificate of occupancy, the project engineer shall furnish the city engineer with a certificate of compliance stating that the project has been constructed in conformity with the plans certified by the city engineer.

(e) Fees for Review of Plans by Engineering Department for Compliance With Applicable Codes and Criteria.

(1) Fee for a preliminary site and development plan and development plan review is addressed in section 1-6 of the Zoning Code.

(2) Fee for a site plan submitted in support of an application for a building permit is eight hundred dollars (\$800.00).

(Ord. No. 89-3278, Sec. 10, 1-17-89; Ord. No. 92-3534, Sec. 1, 10-19-92; Ord. No. 93-3735, Sec. 3, 9-20-93)

Sec. 29.5-5. Future right-of-way lines.

(a) Future right-of-way lines are established for those streets which are identified in chapter 30, article III, of this Code. Streets not listed in chapter 30, article III, may be considered residential local streets and shall have a minimum right-of-way of fifty (50) feet, subject to the acquisition of such additional right-of-way by the city as shall be necessary. The city engineer shall designate those streets considered to be residential local streets.

(b) Future right-of-way lines shall be based upon the minimum right-of-way widths established by chapter 30, article III, and shall be located at equal distances from the center line of a platted right-of-way or from the center line of an established street improvement project.

(Ord. No. 89-3278, Sec. 10, 1-17-89; Ord. No. 94-3764, Sec. 1, 2-7-94)

Sec. 29.5-6. Property without improved access.

(a) No building permit for a commercial structure shall be issued for construction of such commercial structure on any property until it has first been determined, by the city engineer, that a road or street, paved to city specifications, serves as access to the property described in the application for the building permit.

(b) The city commission may, after a public hearing, permit the applicant for a building permit to improve an access road or street by constructing a shell road to city specifications, if the city commission determines that such shell road will not have a detrimental effect upon the environment and will not be injurious to the property of others. Notice of the public hearing shall be published in a local newspaper of general circulation,

on one (1) occasion, no less than five (5) days prior to the public hearing.

(Ord. No. 89-3278, Sec. 10, 1-17-89)

Sec. 29.5-7. Curb cuts and driveways.

It shall be unlawful for any person to cut or cause to be cut a street curb within the public right-of-way or cause to be constructed any driveway unless the owner, or an agent of the owner, first obtains a permit from the city engineer allowing the curb cut or driveway construction. The permit applicant shall pay the fee therefor, as required by section 30-10 of this Code. The curb cut or driveway construction shall be in accordance with the engineering design criteria manual.

(Ord. No 89-3278, Sec. 10, 1-17-89)

Sec. 29.5-8. Erosion and siltation control.

(a) The purpose of erosion and siltation control shall be to minimize the impact of land alteration, development and construction activities so that the control of erosion and sediment shall negate adverse impacts on storm and surface water systems; shall maintain the hydrologic balance of water sheds and water courses; shall protect the public health, safety and welfare; and shall conserve wildlife and aquatic habitats.

(b) A person or entity which shall cut, fill, grade or alter the natural topography of real property, by any other means whatsoever, shall obtain a permit from the city engineer. The erosion and siltation control plan shall conform to the requirements of the engineering design criteria manual. No building permit shall be issued until the city engineer has certified approval of the erosion and siltation control plan.

(c) The permit required by this section shall not be required in the following circumstances:

(1) Where minor land-disturbing activities, such as home garden work or individual home landscaping, repairs and home maintenance work, and related activities, would result in minor soil erosion.

(2) When construction pertains to single-family residence or a single-family duplex, or the demolition or removal of an existing single-family residence or single-family duplex.

(3) Any activity for which bids have been let or a construction contract signed, prior to the date of the adoption of this section, provided that the activity is completed by July 17, 1989.

(4) When the work consists of utility installation within the public right-of-way, routine maintenance or emergency work.

(d) The fee for erosion and siltation control permit is five dollars (\$5.00) per one thousand (1,000) square feet to a maximum of three hundred dollars (\$300.00).

(Ord. No. 89-3278, Sec. 10, 1-17-89; Ord. No. 93-3735, Sec. 4, 9-20-93)



**CENTRAL COUNTY SOLID WASTE
DISPOSAL COMPLEX
STORMWATER POLLUTION
PREVENTION PLAN
(SWP3)**

**Knights Trail Road
Nokomis, Florida**

Prepared for:

**Sarasota County Utilities Department
Solid Waste Operations Division**

Prepared by:

**Camp Dresser & McKee, Inc.
1819 Main Street, Suite 1002
Sarasota, Florida 34236**

June 1998

Section 1

Introduction

The Central County Solid Waste Disposal Complex (CCSWDC) is located in Sarasota County approximately 3 miles east of Interstate 75 at the north end of Knight's Trail Road. The Class I facility is scheduled to begin operation in June 1998, and is expected to handle an average of 1,420 tons/day. In addition to the solid waste facilities at the site, Sarasota County and their contractors will also operate waste tire recycling, yard waste composting, and construction and demolition processing facilities, as well as house an administration staff at the facility.

In July 1997, in compliance with the NPDES stormwater discharge requirements for municipal landfills, the County sent a Sector L Notice of Intent (NOI) to USEPA identifying the CCSWDC as a facility complying with the multi-sector requirements. A copy of the NOI is included as Appendix A, along with a copy of Part B 1 (eligibility for Sector L permit) and Addendum H (Endangered Species Guidance) from the Vol. 60, No.189 of the Federal Register. As part of the permitting process for a multi-purpose permit, the Environmental Protection Agency requires the development and implementation of a Storm Water Pollution Prevention Plan (SWP3) specific to the facility. The purpose of this plan is to identify potential pollution sources, develop Best Management Practices to address these sources, and to identify the people responsible for insuring the plan is implemented properly. A copy of the SWP3 must be kept on-site.

This SWP3 has been prepared by Camp Dresser & McKee, Inc. (CDM) under contract with the Sarasota County Solid Waste Department, Operations Division. The information provided in the plan has been provided from the Solid Waste Department's Operation' staff, design and operations plan documents prepared by CDM and by site visits by CDM.

The SWP3 requires limited monitoring of stormwater runoff from the CCSWDC. However, other State and Federal requirements impose additional monitoring requirements. As monitoring is an integral part of the SWP3 and permitting process, a summary of the ancillary stormwater permitting and monitoring issues is included as Appendix B.

Section 2 General Information

There are four separate functional facilities located at the CCSWDC. These include the Class I Sanitary Landfill, a yard waste composting facility, a waste tire processing facility, and a construction and demolition (C&D) processing facility. The latter facility is operated by Meyer and Gabbert, Inc. under contract to the County. Landfill operations are the responsibility of Chambers Development under separate contract with the County. The County Utilities Department is responsible for overall operation and maintenance of the stormwater infrastructure of these facilities, and Utilities Department staff would be the point of contact in the event of a spill at any location within the CCSWDC.

2.1 CCSWDC Operations

Emergency Contact: Gary Bennett

Title: Solid Waste Operations Manager

Phone Daytime: (941) 486-2600 Emergency: (941) 497-3191

Secondary Contact: Mark Triplett, P.E.

Title: Site Engineer

Phone Daytime: (941) 486-2600 Emergency: (941) 366-2468 (27, 7:21

Emergency Contact for Chambers Development on-site manager for landfilling operations:

Ed Norris (941) 486-2600

Operating Schedule: Monday through Saturday 8:00 am to 5:00 p.m. except holidays

Number of Employees at the CCSWDC: 8 in the office, 7 in maintenance in addition to a variable number of U.S.A. Waste staff members.

2.2 Construction and Demolition Recycling Operations

Emergency Contact: Jim Gabbert

Title: President, Meyer and Gabbert, Inc.

Phone Daytime: (941) 371-0507 Emergency: (941) 951-8803

Secondary Contact: Lenny Meyer

Title: Partner

Phone Daytime: (941) 371-0507 Emergency: (941) 374-1890

Operating Schedule: Monday through Saturday 8:00 am to 5:00 p.m.

Number of Employees: 20

Additional information on Emergency Procedures and Contacts can be found in the following documents:

- Solid Waste Operations Standard Operating Procedures
- Contingency Plan & Emergency Procedures, Sarasota County Government

Copies of these documents are available at the offices of the Solid Waste Division and the CCSWDC.

Section 3

Stormwater Pollution Prevention Team

The Stormwater Pollution Prevention Team for the facility is comprised of the Solid Waste Operations Manager, the Land Management foreman, a representative from the Construction and Demolition Recycling contractor, a representative from Chambers Development, and County's MS4 NPDES coordinator. The Solid Waste Operations Manager, Mr. Gary Bennett, will lead the Stormwater Pollution Prevention Team and will be assisted by a representative from Sarasota County Stormwater Environmental Utility, serving as a technical advisor. The Solid Waste Operations Representative will be responsible for maintenance of the overall stormwater management system.

In addition to being responsible for implementing this plan, the team will meet quarterly to discuss and review the progress made in implementation of this plan and new pollution prevention practices which should be implemented. The Team will also be responsible for updating the plan to ensure compliance with any new permit requirements of the NPDES, FDEP and local environmental programs. The Stormwater Pollution Prevention Team members will also encourage both contractors and employees to provide suggestions of ways operations can be modified to reduce the potential for pollution.

Section 4

Facility Inventory

All CCSWDC facilities with pollution potential are shown on Figure 1. Each of the operations are discussed in detail below, along with the measures and controls utilized to minimize the pollution potential. Within each facility or operation, issues of good housekeeping and maintenance are addressed.

4.1 Landfill Operation

The CCSWDC site is located near the center of a 6,150 acre site owned by the County. The actual complex consists of 550 acres, and the Class I landfill operations cover approximately 275 acres. In addition to landfilling municipal solid waste at the facility, the County also conducts yard waste composting (60 acres), waste tire processing (2 acres), and a construction and demolition debris processing (5 acres). These operations are contained within the complex footprint. The landfill facility is operated in compliance with permit number SO58-299180 from the Florida Department of Environmental Protection.

Existing state-of-the-art pollution prevention practices at the site include:

- composite lined facility
- groundwater monitoring
- leachate collection
- daily and intermediate cover
- litter containment and collection
- landfill closure
- vehicle maintenance
- stormwater treatment system
- erosion control

A summary of these activities and practices is provided below.

4.1.1 Lined Facility

The CCSWDC has been constructed with a composite liner system which meets or exceeds all current Federal and State requirements for municipal solid waste landfills. The liner consists of a 60 mil HDPE liner over 12 inches of compacted clay to prevent the migration of pollutants from the landfill to the surrounding groundwater. To ensure that the liner is functioning properly, the Solid Waste Department will routinely collect samples from monitoring wells located at the facility in accordance with a documented¹ groundwater monitoring plan.

4.1.2 Leachate Collection

Stormwater which falls within the fill area and has contact with refuse in the open portions of the landfill is considered to be leachate. The CCSWDC is equipped with a composite liner system to prevent leachate migration into surrounding ground and surface waters. The leachate is collected above the liner and pumped to a holding tank. The tank is designed with a leak detection and collection system, and is inspected weekly for leaks, corrosion and maintenance deficiencies. An interior tank inspection is conducted at a maximum interval of every 3 years.

In accordance with FDEP requirements, the quality of the leachate is monitored quarterly. Sarasota County is currently reviewing methods for onsite leachate treatment and/or disposal to deep well, surface water or adjacent waste water treatment facility. The County conducts an extensive groundwater monitoring program approved by FDEP. This program includes the measurement of groundwater levels and water quality monitoring on a quarterly basis.

¹Operation Permit Application for the Sarasota County Central County Solid Waste Disposal Complex. 1996. Prepared by Camp Dresser & McKee for submittal to Florida Department of Environmental Protection.

4.1.3 Daily and Intermediate Cover

All areas which are used for disposal of solid waste are covered with 6 inches of inert cover material. Daily cover serves to minimize the active, open landfill area exposed to rainfall. This in turn reduces odors, vectors, fire potential and litter around the site. Intermediate cover (12 inches of earthen material) is later compacted in place to further reduce leachate generation. Intermediate areas which will not receive additional wastes are covered with final cover within 6 months and will be sodded to avoid slope erosion.

Stockpiled material for cover is limited to 25 feet maximum height and a maximum side slope of 3:1 to minimize erosion. A silt fence will be installed at the toe of the stockpile area and side slopes grassed to further minimize erosion. In addition to fencing the stockpiled cover material, fencing is also placed near the landfill working face to control litter.

4.1.4 Landfill Closure

Once a phase of the landfill has been filled to the design height, the phase is closed. The closing procedure of the landfill includes the installation of a 40 mil synthetic polyethylene liner to prevent stormwater from infiltrating into the solid waste and generating leachate. The synthetic liner is then covered with 24 inches of soil which is sodded or seeded, depending on the angle of the slope. All closure plans are reviewed and permitted by the Florida Department of Environmental Protection.

4.1.5 Litter Control

Litter control will consist of litter fencing, requiring covered loads on vehicles, perimeter fencing, efficient unloading and cover operations and by routine clean-up.

4.1.6 Vehicle Maintenance

Day to day heavy equipment maintenance will be conducted within the limits of the Class I landfill area. Routine maintenance will include cleaning of equipment (pressure washing), oiling, lubrication, fueling and changing of filters. These activities will be conducted at the toe of the working face prior to initiating the day's landfilling activities. This area provides a solid working platform and is contained within the stormwater berms which contain runoff from the working face and prevent it from leaving the site without treatment. Any spills resulting from maintenance activities will be contained within the lined landfill area. Any contaminated soils will be removed for appropriate disposal.

A maintenance building is also located outside the limits of the Class I landfill. The purpose of this facility is for conducting major repair or parts replacement work on both heavy and small equipment. The maintenance building includes an impervious concrete slab with a surface hardener. Any spills on this slab will be collected using a dry absorbent material. The absorbent will be disposed of off-site in accordance with the requirements for this material. No washdown of the maintenance building working bays is proposed.

A fueling station is also provided at the maintenance building. A covered concrete containment area is provided for fuel delivery and for fueling operations. Both gasoline and diesel fuel will be supplied by two above-ground fuel storage tanks which meet the requirement of Chapter 62-762 F.A.C. The concrete containment area drains to an oil/grease separator and then to a concrete holding tank. In the event of a fuel spill, the contents of the holding tank will be disposed off-site in an appropriate and approved manner.

4.1.7 Stormwater Treatment

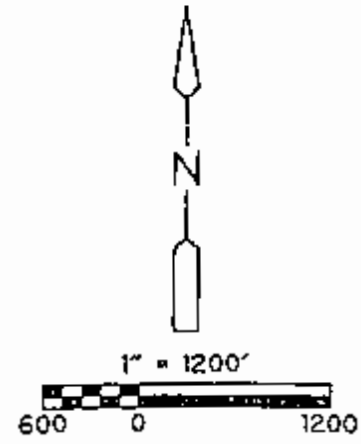
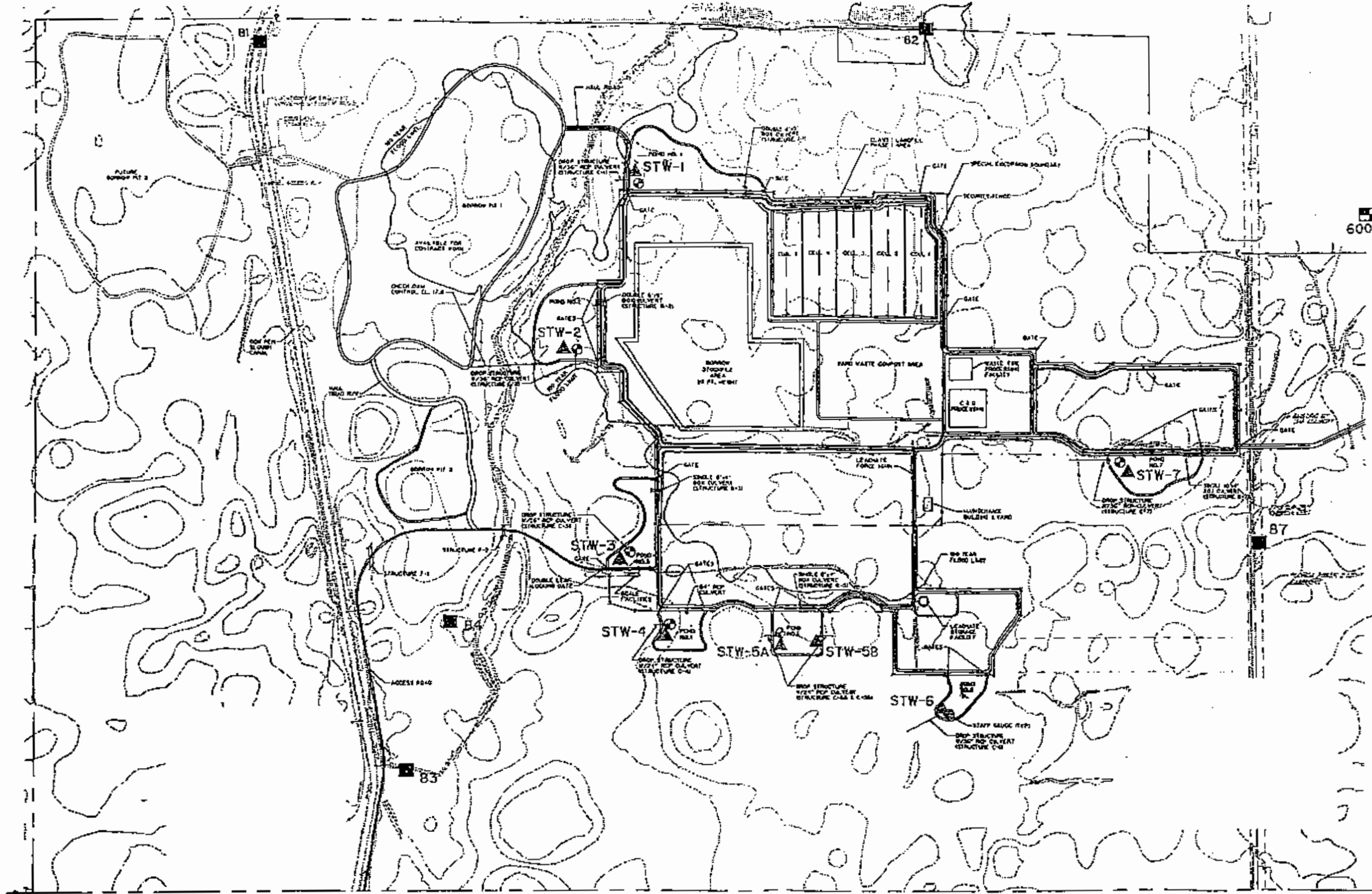
The CCSWDC site is served by a stormwater management system which has been designed to comply with the requirements of Chapter 40D-4 and Chapter 17-25 of the Florida Administrative Code. The stormwater management system includes a series of open and closed conveyances designed to reduce erosion and provide treatment for stormwater runoff. Major structures and drainage patterns are illustrated in Figures 2A and 2B. All site runoff is treated in accordance with state requirements. All stormwater runoff will be initially collected in a perimeter drainage ditch, and then conveyed to detention areas. Ditch blocks have been incorporated to reduce the flow and settle sediments.

A series of seven wet detention ponds provide treatment. Pond 1 receives runoff from the Class I landfill, the yard waste composting area and the waste tire recycling facility. Pond 2 provides treatment for the runoff from the yard waste composting, and the construction and demolition recycling area. Pond 3 serves the western half of the future use area. Pond 4 serves the administration and scale facilities. Pond 5 serves the eastern half of the future use area. Pond 6 serves the leachate storage tank area. Pond 7 serves the future use landfill area.

[Note -- With concurrence from FDEP, the monitoring of stormwater discharges will be at the point of discharge to waters of the State. These locations are post-treatment by the seven ponds and are indicated at locations B4R, B3 and B6 on Figures 3A and 3B.]

The elevated portions of the closed phases of the landfill are served by a series of letdown structures. These structures channel runoff from the capped portions of the landfill and route flow down to the normal ground level without causing erosion which could allow solid waste to be exposed. Once the runoff is drained from the landfill, the stormwater is routed to one of two

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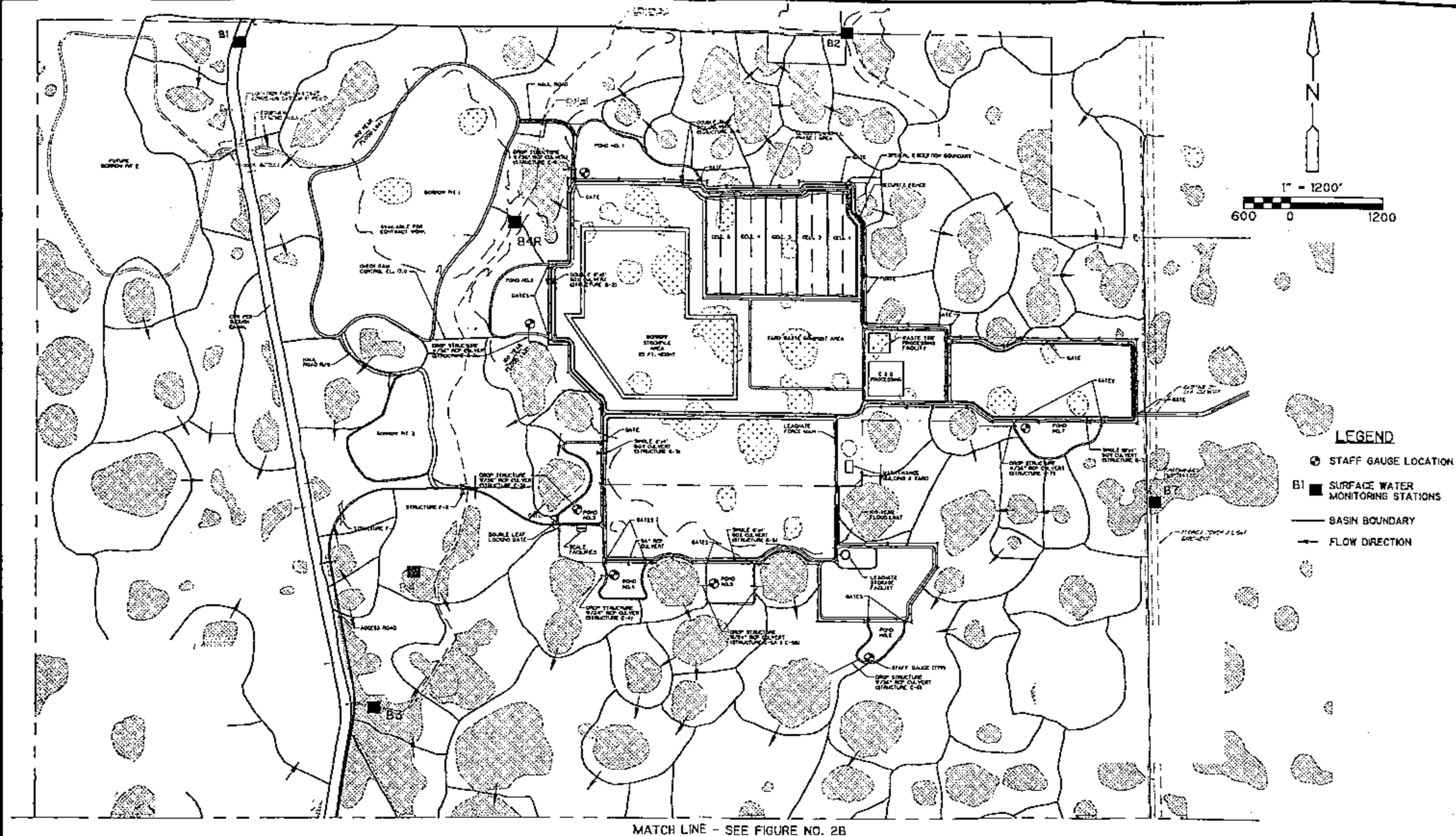
- LEGEND**
- ⊗ STAFF GAUGE LOCATION
 - B1 ■ SURFACE WATER MONITORING STATIONS
 - STW-1 ▲ STORMWATER MONITORING STATIONS

MATCH LINE - SEE FIGURE NO. 2-B

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SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
**SURFACE AND STORMWATER
MONITORING LOCATIONS**

Figure 1



MATCH LINE - SEE FIGURE NO. 2B

1" = 1200'

600 0 1200

LEGEND

- STAFF GAUGE LOCATION
- B1 ■ SURFACE WATER MONITORING STATIONS
- BASIN BOUNDARY
- FLOW DIRECTION

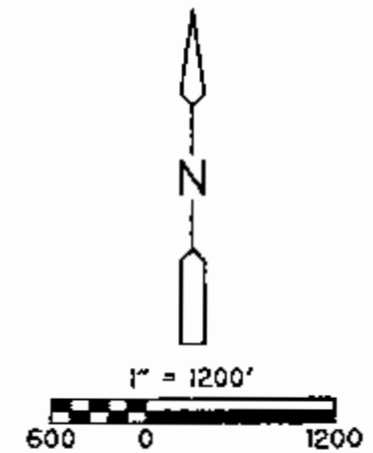
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Camp Dresser & McKee

environmental
servicesSARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEXSURFACE DRAINAGE PATTERNS
AND MONITORING LOCATIONS

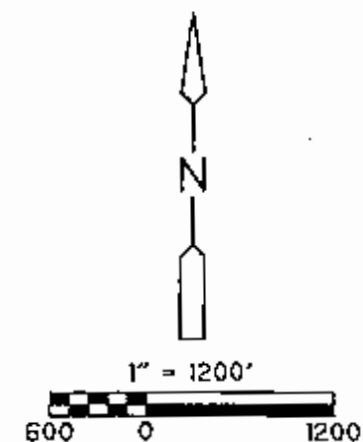
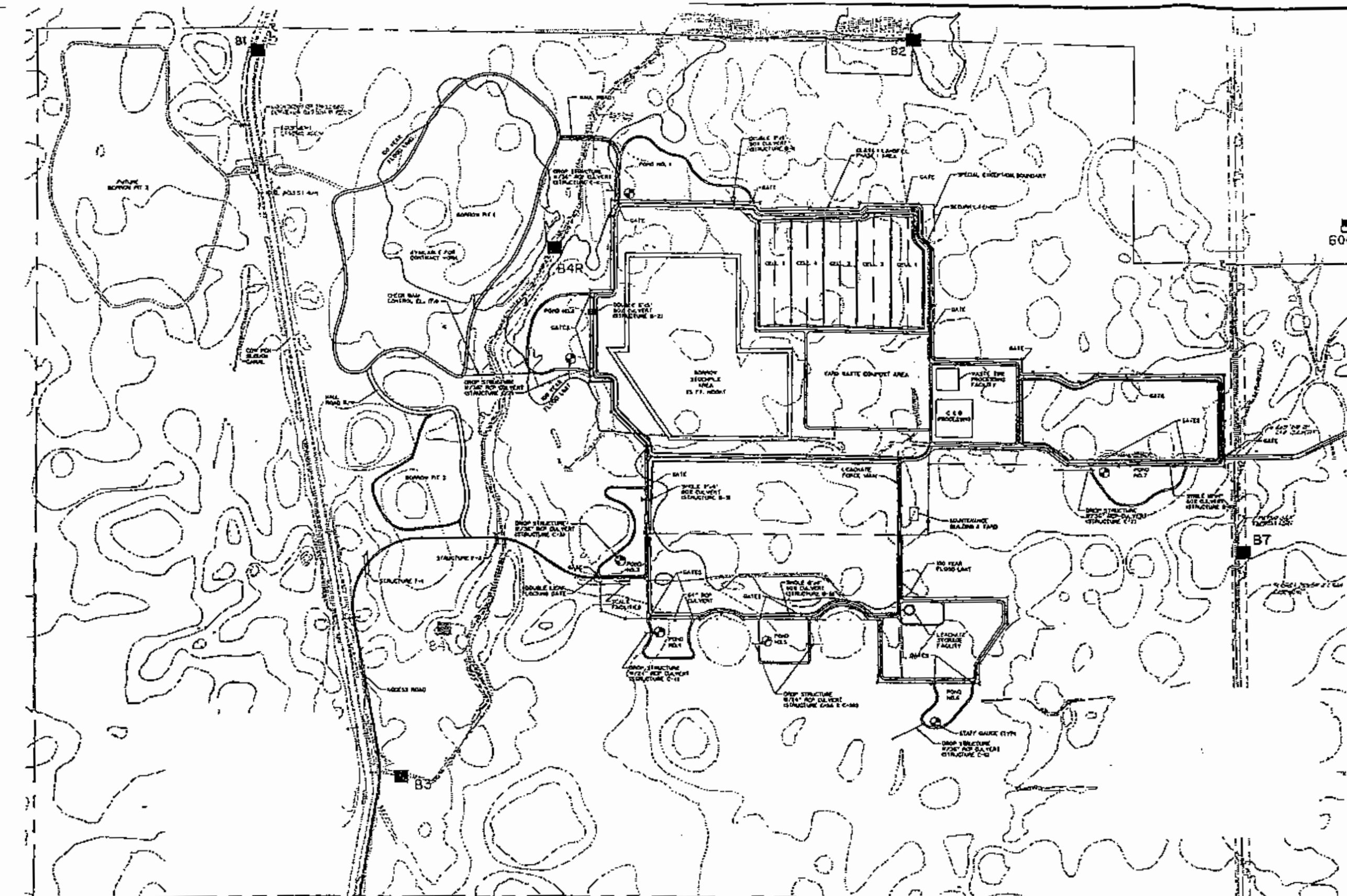
Figure No. 2A

MATCH LINE - SEE FIGURE NO. 2A



LEGEND

- B5 ■ SURFACE WATER MONITORING STATIONS
- BASIN BOUNDARY
- FLOW DIRECTION



LEGEND

- ⊕ STAFF GAUGE LOCATION
- B1 SURFACE WATER MONITORING STATIONS

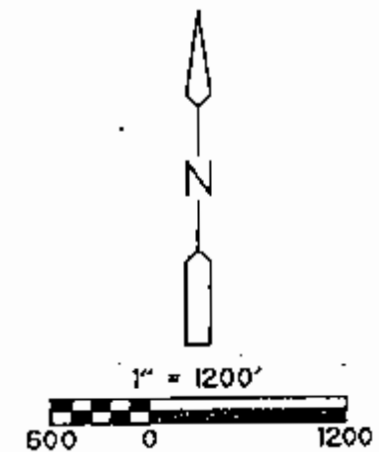
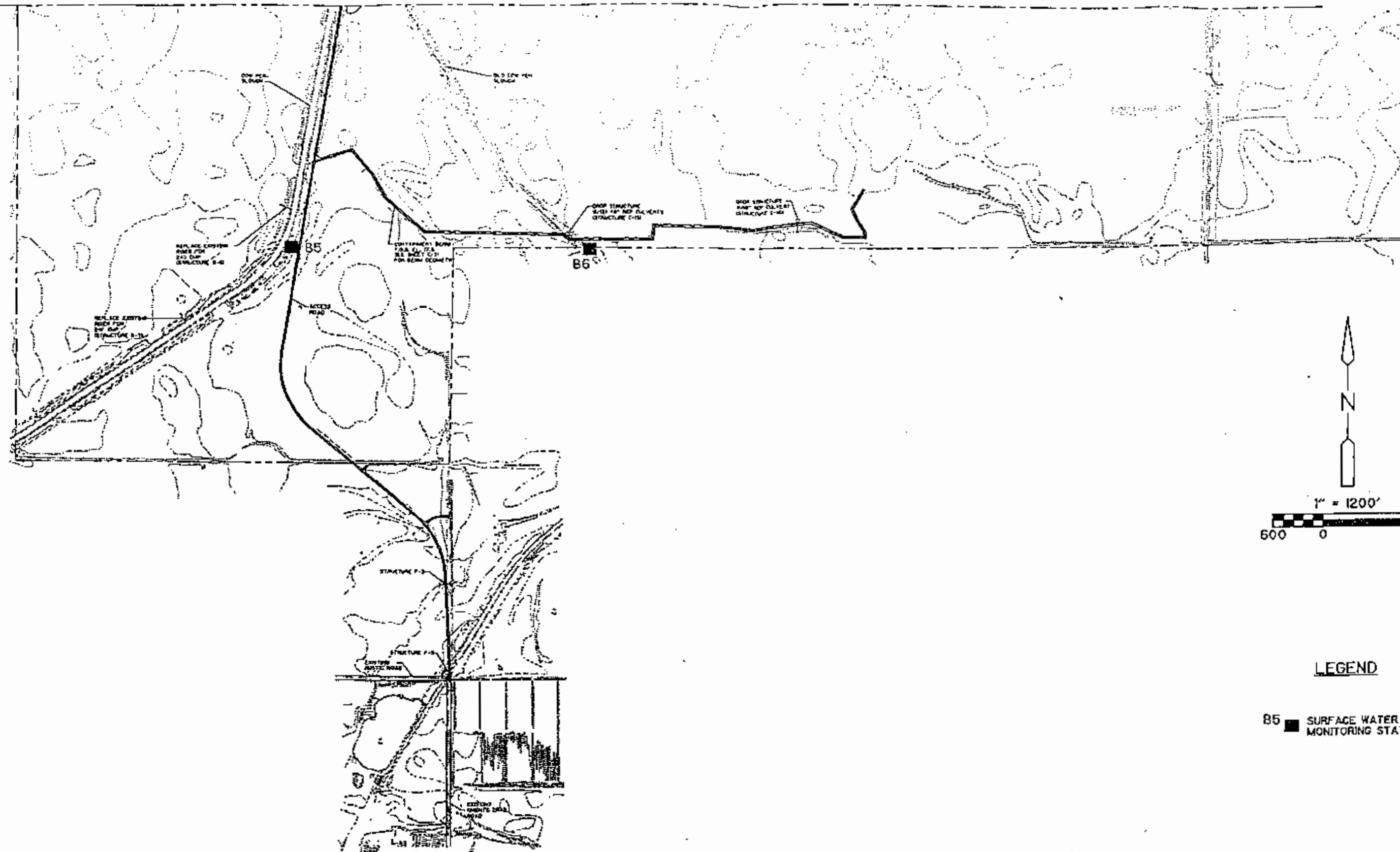
MATCH LINE - SEE FIGURE NO. 2-1B

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SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
SURFACE AND STORMWATER
MONITORING LOCATIONS

Figure 3A



LEGEND

B5 ■ SURFACE WATER
MONITORING STATIONS

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SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
SURFACE AND STORMWATER
MONITORING LOCATIONS

Figure 3B

ponds for treatment and attenuation. The stormwater system is capable of treating the first inch of runoff from the developed portions of the landfill site. Treatment is provided through retention of the runoff with subsequent release and overland flow to the Old Cow Pen Slough after treatment. Stormwater which falls into open portions of the landfill is collected by the leachate collection system.

The operation and maintenance of the stormwater system will be supervised by a FWPOCA Certified Class "C" (or higher) Stormwater Operator.

The stormwater management system has been designed to limit discharges from the site to the pre-development discharge rate for the 25-year, 24-hour design storm. In addition, the stormwater system is capable of routing a 100-year storm event without significant erosion on the closed portions of the landfill. A monitoring program which complies with the requirements of Chapter 62-701 and consisting of seven sampling locations has been developed and approved by FDEP.

4.1.8 Erosion Control

Erosion will be controlled by isolating the working face from the remainder of the stormwater system through a series of temporary diversion berms. Stormwater which accumulates in the area of the working face will be retained and allowed to percolate where it will be captured in the leachate collection system. A second set of berms will serve as erosion and sediment traps for newly covered areas. Sediment in the runoff which reaches the perimeter ditch will be captured at ditch blocks which will require periodic maintenance.

4.1.9 Control of Other Sources

Establishing vegetative cover quickly is necessary to reduce erosion. In accordance with the MS4 NPDES (FLS000004), all County departments are obligated to practice Integrated Pest Management (IPM). Consequently, the County expects to use only moderate amounts of fertilizers, pesticides and herbicides at the CCSWDC. Except for fertilizer, these materials will be stored in a covered and locked area, or an area of restricted access. Bulk fertilizer will be stored under cover.

The waste hauler franchise agreements specify that all vehicles hauling trash within the County must be covered. Vehicles entering the CCSWDC are inspected, and if found to be uncovered, or spilling waste, the company is notified and required to clean up any spilled waste.

All materials which are stored outdoors will be protected from rain by tarpaulins, if necessary, to prevent deleterious effects of weather, or storage will be under a covered extension of the maintenance building.

There will be no temporary storage of waste at this site. All haul roads will be asphalt-paved except for temporary roads on top of the soil stockpile or on the landfill. Temporary haul roads will be periodically wetted to minimize dust.

Section 5

Description of Exposed Material

Exposed material will be kept to a minimum at the CCSWDC. According to the EPA Guidance Manual¹, the only material which may meet the definition of "Significant Material" which is exposed to stormwater runoff is the soil stockpiles used for cover material. These materials will be contained within silt fences and seeded to minimize erosion.

¹Storm Water Management for Industrial Activities, Developing Pollution Prevention Plans and Best Management Practices. 1992. EPA 832-4-92-006.

Section 6 Spills and Leaks

6.1 Historic Spills and Leaks

The CCSWDC will not become operational until early 1998. Consequently, there is no history of spills.

6.2 Spill Prevention and Response

The operation most likely to experience a spill involves equipment maintenance. Fuel spills will be treated and contained as previously described. Spills occurring at the maintenance building will be cleaned with absorbent material. Washdown of spill material is against operating procedures.

The fuel dispensing station located at the maintenance building is equipped with a concrete containment area and reservoir. In the event of a spill, the contents of the reservoir will be pumped out for disposal.

Incidental spills of mechanical fluids will be minimized by following sound mechanical repair procedures. These procedures shall include, at a minimum, removing all fluids from any system prior to commencing repair, providing appropriate drain pans and funnels to collect fluids, placing absorbent towels or granules under the work and allowing only properly trained mechanics to work on the equipment.

Section 7

Pollution Prevention Practices

The following is a list of the pollution prevention activities which will be implemented at the CCSWDC when operations commence :

- Commence litter collection along the Access Road to collect any debris which may have fallen from waste haulers enroute to the facility.
- Collect litter within the stormwater conveyance system and along the perimeter fences of the facility at a minimum of two times per week.
- Remove litter from working face two times per week.
- Remove any buildup of soil outside of the scalehouse facility, bi-weekly or as necessary, to prevent tracking of soil off-site.
- Continue the collection of leachate and monitoring of leachate
- Install and maintain silt fencing along the sides of cover material stock piles. Stock piles which will be in place longer than six months will be seeded with grass to help stabilize the side slopes.
- Fuel transfer will be conducted under cover. Spillage from the fueling area will be treated (oil/water separator) and captured in concrete container
- Spills in the maintenance shop will be contained with absorbent material. Washdown of spills will be prohibited.

- If inspection of stormwater system indicates that repairs are necessary, repairs will be initiated within five (5) working days. The inspector shall prepare a report indicating the date, reason for inspection (storm event or scheduled), condition of each structure, and follow-up action or repair required. All necessary repairs will be initiated with five (5) working days. The inspector shall prepare a report indicating the date, reason for inspection (storm event/scheduled), condition of each structure, and follow-up action or repair required .

Section 8 Inspections

A variety of inspection activities will be included as standard operating procedures at the CCSWDC. Routinely scheduled inspections include :

Daily

- Soil buildup at the scalchouse
- Type of wastes disposed in each cell
- Application of initial cover
- Leachate pump station data recorded

Weekly

- Stormwater system (during June through September)
- Exterior of leachate storage tank

Bi-Weekly

- Stormwater system (October through May)

Monthly

- Leachate pump station manual operations check

Annual

- Annually, the wet detention facilities will be inspected and if sedimentation has reduced the storage volume by 30 percent or greater, the sediments will be removed.
- Comprehensive Site Compliance Inspection

Triennial]

- Inspect interior of leachate storage tank every three years

Storm Events > 0.1 inch, following 72 hours of dry weather.

(See Sector L Permit Requirements for sampling and reporting requirements)

- Quarterly monitoring of runoff in accordance with Sector L permit (Second and potentially fourth year of permit)
- Quarterly 'Visual' inspections of stormwater runoff in accordance with Sector L permit.

Following Storm Events >0.5 inch / 24 hours.

- Inspect the stormwater system, soil stockpiles, and side slopes of the closed landfill for erosion and make any necessary repairs after rainfall events in which more than 1/2 inch of rainfall occurs.

Section 9 Training

Employees participating in activities which have a potential for causing pollution from the facility will be trained in the proper procedures for the specific task. Training in proper procedures will be conducted by a supervisor or other trained personnel who are familiar with and capable of teaching the proper procedures. Date and extent of formal training will be documented and retained for a minimum of 3 years. Training is anticipated to take place on the following topics:

- Maintenance Procedures
- Sediment and Erosion Control
- Transport and Storage of Chemicals
- Spill Containment and Cleanup
- Record Keeping

Additional topics will be discussed by the Stormwater Pollution Prevention Committee.

Training will be conducted on a quarterly basis. The exact date and subject will be determined at the beginning of each quarter. Employees of the facility will be encouraged to obtain a certification as an Operator through the Florida Water and Pollution Control Operators Association. The Solid Waste Department will designate a minimum of one employee to become a certified Stormwater Operator by the Florida Water and Pollution Control Operators Association.

Section 10

Recordkeeping/Reporting

The results of all inspections will be documented and a copy retained for a minimum of three years on-site. A copy will be forwarded for review and archiving at the Solid Waste Department. As a minimum, inspection reports will include inspector name(s), date and time of inspection, type and area of inspection, results and recommended actions.

Corrective actions taken as a result of inspection reports will be documented and traceable to the inspection report.

Annually, the Pollution Prevention Team will be responsible for conducting a comprehensive site compliance audit and producing a report of the results. Audits shall include visual inspection, and documentation of condition of all aspects of pollution prevention identified in this SWP3. In years when full compliance with the SWP3 is noted, the Team will prepare a report stating that the facility is in full compliance with the SWP3. However, when deficiencies in the prevention plan are noted during the audit, corrective actions will be developed within 2 weeks and implemented within 12 weeks.

Annually, the Pollution Prevention Team will audit random inspection reports and the follow-up actions taken as part of the annual compliance audit.

Section 11

Sector L Permit Sampling Requirements

A requirement of the Stormwater Pollution Prevention Plan is that the results of the inspections and monitoring required by the Sector L permit be included. The Sector L permit requirements are summarized below.

11.1 *Qualifying Storm Events*

Stormwater runoff which will either “visually” be monitored, or quantifiably monitored in accordance with the sector permit, must be the result of a minimum of 0.1 inches of rainfall. In order to capture the ‘first flush’ phenomenon, no runoff may have preceded the sampling for the prior 72 hours. (EPA may waive the 72 hour requirement if it can be demonstrated that this antecedent interval is not representative of the region and season.)

11.2 *Quantitative Sampling*

A minimum of quarterly samplings must be conducted on a calendar year schedule. During the second year of the Sector L permit, quantitative sampling will be conducted for iron (total recoverable) and total suspended solids (TSS). If the annual average of the iron exceeds 1.0 mg/l, or if the annual average of TSS exceeds 100 mg/l, then quantitative sampling must be repeated during the fourth year of the permit.

Quantitative samples must consist of grab samples collected from each representative outfall within the first 30 minutes of runoff. Alternatively, if it is impossible to collect a sample within the first 30 minutes, a sample may be collected within the first 60 minutes, but the results must be accompanied with an explanation of why the sample could not be collected within the first 30 minutes.

11.3 Qualitative Sampling

"Visual" sampling must be completed quarterly (minimum) throughout the duration of the permit "for color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen and other obvious indicators of stormwater pollution". Qualifying events must comply with the criteria identified in 11.1 and the timing of the sample collection must comply with the criteria identified in Section 11.2. Visual inspection reports must be retained on-site in the SWP3.

11.4 Reporting

The results of sampling must be forwarded to EPA on Discharge Monitoring Report (DMR) forms with one DMR for each outfall and each event sampled. In addition to the quantitative data from each event, the following data must be documented:

Sampler's Name

Date, Time and Location of Sample

Duration of rain event sampled

Amount of rainfall at the time of sampling

Duration since last rainfall producing runoff

Estimate of total volume of discharge preceding the time of sampling

Estimate of drainage area (in square feet) contributing to discharge location.

Semi-quantitative estimation of runoff coefficient for each outfall according to the following :

Low (less than 40 %)

Medium (40-65 %)

High (greater than 65 %)

11.5 Sampling Locations

For consistency among State and Federal sampling and reporting, the outfall locations to be

sampled for the Sector L permit are the same as those required by FIDEP. These were identified on the previously referenced Figures 2A and 2B. The discharge from these locations is post-treatment and is representative of the quality of treated runoff discharged to waters of the United States.

11.6 Non-Stormwater Discharges

As required by the Sector L permit, a signed certification that the discharge does (or does not) contain only storm water runoff shall be prepared within 180 days of the NOI. The certification shall be based on the monitoring results required under Chapter 62-701 F.A.C., 40 CFR 122.26 and 40 CFR 122.21, and shall focus on chemical constituents and levels commonly associated with leachate and vehicle wash waters. In the event that evidence of non-storm water contamination exists, this SWP3 shall be modified, and corrective action taken within 12 weeks of receipt of sample results. A signed copy of the certification will be forwarded to EPA, and a copy retained on-site in the SWP3.

Section 12 Certification

I, Paul Wingler, 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 gather and evaluate the information submitted. Based on 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.

Date: 6/3/98

P. Wingler



Dry Weather Field Screening
Unincorporated Sarasota County
1998

Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grid Number	Comments
CF-SC-03	611	Phillippi Creek	Gun Club Rd., W. along canal	12"	02/11/1998	No	No	18-E	Ditch discharging into E-W ditch.
CF-SC-03	624	Phillippi Creek	Gun Club Rd., W. along canal.	24"	02/11/1998	No	No	18-E	Pipe discharging into E-W ditch.
CF-SC-18	1175	Myakka River	5246 Myakka Valley Tr., downstream from @ 1/4 mile.	24"	03/13/1998	No	No	18-E	
CF-SC-18	1176	Myakka River	100' W. of Tucumcari Tr. and Myakka Valley Tr., flowing S.	4'	03/13/1998	No	No	18-E	
CF-SC-18	1181	Myakka River	5291 Myakka Valley Tr., flowing S.	24"	03/13/1998	No	No	18-E	
CF-SC-18	1184	Myakka River	Myakka Valley Tr. and Obar Rd.	12"	03/13/1998	No	No	18-E	Some erosion from recent heavy rains.
CF-SC-18	1189	Myakka River	100' W. of Myakka Valley Tr. and Vanderipe Rd.	30'	03/13/1998	No	No	18-E	
CF-SC-18	1153	Myakka River	Ditch N-S, crossing Old Ranch Rd. 1/4 mile E. of Westwood Dr.	35"	03/15/1998	No	No	18-E	
CF-SC-18	1161	Myakka River	6957 Old Ranch Rd., behind, N. of Westwood Way.	4'	03/16/1998	No	No	18-E	No photo; no access, large dogs.
CF-SC-18	1168	Myakka River	6386 Singletree Rd., behind.	3'	03/16/1998	No	No	18-E	
CF-SC-18	1192	Myakka River	5233 Vanderipe Rd., behind, swampy area	Undefined, swamp	03/16/1998	No	No	18-E	Swampy area, @ 200' along ditch, sheet flow.
CF-SC-18	1165	Myakka River	5344 Howard Creek Rd., behind. N-S ditch meeting E-W ditches	4'	03/16/1998	No	No	18-E	
CF-SC-18	1200	Myakka River	N-S ditch junction with E-W ditch between Howard Creek Rd. and Vanderipe Rd.	2 x 30"	03/18/1998	No	No	18-E	
CF-SC-18	1281	Myakka River	Between Rawls Rd. and Hancock Rd., west of Myakka	N/A	03/18/1998	No	No	18-C	Not accessible.
CF-SC-18	1372	Myakka River	Ditch 1/4 mi. N. of Center Rd. on E. side of River Rd., flowing to Myakka River	4'	03/18/1998	No	No	2-E	
CF-SC-18	1375	Myakka River	169 Myakka Dr., behind, S. side.	15'	03/18/1998	No	No	4-N, 5-W	No flow.
CF-SC-18	1407	Myakka River	N. to canal from Kennedy Ln. and Lee Rd. S. from S. end of Lee Rd., at Blackburn Canal	Almost closed	03/18/1998	No	No	15-S	Clogged with vegetation, no flow possible.
CF-SC-18	1410	Myakka River	588 Havana Rd., across from, off Frederick Dr.	6' - 8'	03/18/1998	No	No	2-N	Overgrown.
CF-SC-18	1413	Myakka River		5'	03/18/1998	No	No	15-S	Completely overgrown
CF-SC-21	1378	Little Salt Creek	Next to 560 Fairmount Dr.	3'	03/25/1998	No	No	5-C	No flow.
CF-SC-21	1381	Little Salt Creek	N. side of US 41, between Myakka River and 11045 US 41.	15'	03/25/1998	No	No	5W, 7W	No flow; canal
CF-SC-21	1384	Little Salt Creek	S. side of 11827 De Leon Dr.	Filled and sodded.	03/25/1998	No	No	7-W	Home owners filled and sodded swale; not draining
CF-SC-21	1387	Little Salt Creek	100' W. of Sanibel St. and DeSoto Dr.	8'	03/25/1998	No	No	7-W	Heavily overgrown.

Dry Weather Field Screening
Unincorporated Sarasota County
1998

Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grid Number	Comments
CF-SC-21	1390	Little Salt Creek	NW corner of Toledo Rd. and De Leon Dr.	10'	03/25/1998	No	No	7-E	Excessive growth in N-S ditch
CF-SC-21	1397	Little Salt Creek	403 Sevilla Dr., behind.	12'	03/25/1998	No	No	7-E	Heavily overgrown
CF-SC-21	1400	Little Salt Creek	11956 Cortez Ln., in front of.	18" box, dirt filled	03/25/1998	No	No	7-W	Box and drains filled, no longer functional.
CF-SC-16	1331	Ainger Creek	Ainger Creek Basin, not Big Slough.	N/A	03/26/1998	No	No	4-W	Not accessible.
CF-SC-16	1341	Ainger Creek	Ainger Creek Basin, not Big Slough.	N/A	03/26/1998	No	No	4-C	Not accessible.
CF-SC-16	1295	Myakka River	1/3 mi. ENE of NE corner of pond A, Hi Hat Ranch	12'	03/26/1998	No	No	18-B	Flooding and sheet flow normal.
CF-SC-16	2090	Myakka River	NE corner of W. retention pond at Venice Transfer Station.	30"	03/26/1998	No	No	2-N	
CF-SC-01	682	Whitaker Bayou	2643 47th St., E. side of.	30"	06/15/1998	No	No	205	No flow.
CF-SC-01	685	Whitaker Bayou	4020 4th Ct. in Windmill Village.	20"	06/15/1998	No	No	205	Small street drain; no flow.
CF-SC-01	693	Whitaker Bayou	S. of Seaward Dr. and Sprucewood.	24" weir	06/15/1998	No	No	204	
CF-SC-01	751	Whitaker Bayou	Middle Ave. and 51st St.	48"	06/15/1998	No	No	203	No flow.
CF-SC-01	2076	Whitaker Bayou	Swale / ditch on Middle Ave.	DW no pipe	06/15/1998	No	No	203	No flow.
CF-SC-01	2077	Whitaker Bayou	Swale / ditch on Middle Ave.	DW no pipe	06/15/1998	No	No	203	No flow.
CF-SC-01	2099	Whitaker Bayou	No access. Rolling Green Golf Course.	grassy swale	06/15/1998	N/A	N/A	204	Dry weather sampling point
CF-SC-01	698	Whitaker Bayou	11th St. and Villas St.	24" weir	06/16/1998	No	No	270	No flow; should be in city.
CF-SC-01	705	Whitaker Bayou	2331 15th St., E. of Humane Society.	20"	06/16/1998	No	No	272	No flow; storm water pond, should be in city.
CF-SC-01	708	Whitaker Bayou	2430 17th St.	8'	06/16/1998	No	No	197	No flow.
CF-SC-01	718	Whitaker Bayou	1793 Mango Ave., behind.	24"	06/16/1998	No	No	197	No flow.
CF-SC-01	739	Whitaker Bayou	Under US 301 and Princeton St.	N/A	06/16/1998	No	No	299	Not visible.
CF-SC-01	748	Whitaker Bayou	E. of US 301 and railroad tracks on S. side of University Pkwy.	2x4'	06/16/1998	No	No	207	No flow; overgrown.
CF-SC-06	1208	Catfish Creek	W. of the Players Club clubhouse.	15' channel	06/17/1998	No	No	108-N	No outfall located.
CF-SC-06	369	Catfish Creek	Sarah Ave., N. end.	24"	06/17/1998	No	No	173	No flow.
CF-SC-06	397	Catfish Creek	Clark Rd. and Clark Center Rd.	4'	06/17/1998	No	No	109-N	No flow.
CF-SC-03	1084	Phillippi Creek	Underhill Ranch, 6685 Clark Rd.	no pipe, dry swale	06/17/1998	No	No	110	No flow.
CF-SC-03	2109	Phillippi Creek	Kings Bridge Rd. and Wellfleet Rd. in Camelot Lakes East MHP	10'	06/17/1998	No	No	110	No flow.
CF-SC-06	1090	South Creek	No access. Central County Utility re-use ponds.	Ponds	06/17/1998	N/A	N/A	15-W	
CF-SC-06	1205	Catfish Creek	Mandarin Rd., south end.	NA	06/18/1998	No	No	124	Small wetland.
CF-SC-05	1211	Catfish Creek	Turtle Rock Blvd.	N/A	06/18/1998	No	No	108-N	Not accessible.

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Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grid Number	Comments
OF-SC-06	1214	Catfish Creek	No access, gates locked.	N/A	06/18/1998	No	No	108-N	Not accessible
OF-SC-06	2112	Catfish Creek	Pinkney Ave. and Ashton Rd.	24"	06/18/1998	No	No	150	Small ditch.
OF-SC-05	505	Catfish Creek	6032 Clark Center Ave., behind.	12"	06/18/1998	No	No	103-N	Ditch
OF-SC-08	1954	South Creek	6553 Teada Dr., behind; Seranoa subdivision.	30"	06/18/1998	No	No	15-W	SWO; no flow
OF-SC-08	1637	South Creek	6558 Teada Dr., behind; Seranoa subdivision.	24"	06/18/1998	No	No	15-W	SWO
OF-SC-03	632	Phillippi Creek	3652 Prudence Dr.	20"	06/24/1998	No	No	191	Two small yard drains.
OF-SC-03	652	Phillippi Creek	Harley Ave. and Schwolbe Dr., Kensington.	20"	06/24/1998	No	No	191	Small.
OF-SC-03	793	Phillippi Creek	Stafford Ln., N. end.	20"	06/24/1998	No	No	165	Small.
OF-SC-03	795	Phillippi Creek	1851 Riviera Ct.	35"	06/24/1998	No	No	169	No flow.
OF-SC-12	1539	Alligator Creek	S. of Venice Gardens WWTF entrance on Venice East Ave.	6" ditch	06/29/1998	No	No	2-S, 42	SWO
OF-SC-10	2044	Blackburn Canal	Venice Ave. and Jacaranda Blvd.	36" drains on all corners	06/29/1998	No	No	106-S	No flow.
OF-SC-10	2055	Blackburn Canal	Not located.	N/A	06/29/1998	N/A	N/A	N/A	Missing coordinate information from consultant.
OF-SC-10	1416	Curry Creek	230 Snyder Dr., behind.	6" swale	06/29/1998	No	No	15-S	No flow.
OF-SC-10	1419	Curry Creek	Curry Creek and Auburn Rd.	4' weir	06/29/1998	No	No	75	No flow.
OF-SC-10	1428	Curry Creek	Not located.	N/A	06/29/1998	N/A	N/A	75	Missing coordinate information from consultant.
OF-SC-10	1440	Curry Creek	W. end of Blackburn Canal, off Auburn Rd.	4' ditch	06/29/1998	No	No	75	
OF-SC-10	1443	Curry Creek	Auburn Lakes, new development.	N/A	06/29/1998	N/A	N/A	75	Under construction.
OF-SC-10	1451	Curry Creek	1327 Pinebrook Way, E. of.	6" weir + 6" pipe	06/29/1998	No	No	75	No flow.
OF-SC-10	1455	Curry Creek	Not located.	N/A	06/29/1998	N/A	N/A	N/A	Missing coordinate information from consultant.
OF-SC-11	1448	Hatchett Creek	S. end of Clermont Rd.	3' ditch	06/29/1998	No	No	105	Overgrown.
OF-SC-11	1459	Hatchett Creek	801 Ridgewood Ave.	3'	06/29/1998	No	No	74	Small drain.
OF-SC-12	495	Alligator Creek	12th tee at Plantation Golf Club, across from WWTF entrance.	30"	06/30/1998	No	No	2-S	Golf course pond outfall.
OF-SC-12	499	Alligator Creek	612 Crossfield Dr., behind.	43"	06/30/1998	No	No	2-S	Golf course pond.
OF-SC-17	1087	Cowpen Slough	5701 Churchhill Downs Rd.	8' ditch	06/30/1998	No	No	112	Pond on ranch.
OF-SC-03	4	Phillippi Creek	SE corner of Sarasota Crossings shopping center	20' ditches	07/06/1998	No	No	193-S	
OF-SC-03	14	Phillippi Creek	Gateway Office Park.	N/A	07/06/1998	No	No	193-S	Under construction.
OF-SC-03	49	Phillippi Creek	5227 Richardson Rd	4'-6" ditch	07/06/1998	No	No	188	Ditch running S.

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Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grd Number	Comments
OF-SC-03	51	Phillippi Creek	NW corner of Fruitville Rd. and Honore Ave.	20" ditch, 4" SWD weir	07/06/1998	No	No	193-S	Flowing NW.
OF-SC-03	605	Phillippi Creek	1628 Georgetown Blvd., behind.	1-8" inflow, 2-20" outfalls	07/06/1998	No	No	188	Pond inflow and outfall pipes
OF-SC-03	608	Phillippi Creek	1632 Georgetown Blvd., behind.	6" x 24"	07/06/1998	No	No	188	Pond outfall and storm drain.
OF-SC-03	604	Phillippi Creek	1702 Gun Club Rd.	4" x 6" ditch	07/07/1998	No	No	189	No flow.
OF-SC-03	897	Phillippi Creek	1958 Racimo Dr.	8" ditch	07/07/1998	No	No	20-A	No flow.
OF-SC-03	898	Phillippi Creek	1762 Jewel Dr.	12"	07/07/1998	No	No	20-A	No flow.
OF-SC-03	1003	Phillippi Creek	Racimo Dr. and Drake Dr.	12"	07/07/1998	No	No	20-A	No flow.
OF-SC-03	1015	Phillippi Creek	100 yards S. of Castle Dr.	10" ditch	07/07/1998	No	No	20-A	No flow.
OF-SC-03	1066	Phillippi Creek	98 Sarasota Center Blvd., pond outfall.	24"	07/07/1998	No	No	20-A	No flow.
OF-SC-20	1347	Big Slough	No access. S. of Deer Prairie and SR 72.	Unknown	07/10/1998	No	No	17-W	
OF-SC-20	1358	Big Slough	SR 72, 8.0 miles E. of Myakka River	20"	07/10/1998	No	No	16-N	Small swale and road drain.
OF-SC-20	1365	Big Slough	No access. S. of Deer Prairie and SR 72.	Unknown	07/10/1998	No	No	16-E	
OF-SC-03	1008	Phillippi Creek	Fox Creek Dr.	15" ditch	07/16/1998	No	No	20-A	No flow.
OF-SC-03	41	Phillippi Creek	3347 Kingswood Dr.	20"	07/17/1998	No	No	183	Weir from N. end of pond.
OF-SC-03	42	Phillippi Creek	NW side of Cattlemen Rd. and Bee Ridge Rd.	6-8" box culvert	07/17/1998	No	No	183	
OF-SC-03	55	Phillippi Creek	Brookmead Ln. and Lalani Ln.	3'	07/17/1998	No	No	181	E/W ditch to N/S ditch.
OF-SC-03	174	Phillippi Creek	4405 Beacon Dr.	2-30" ovals, 1-36"	07/17/1998	No	No	180	
OF-SC-03	294	Phillippi Creek	Ditch NW of Cattlemen Rd. and Bee Ridge Rd.	53"	07/17/1998	No	No	182	Left side.
OF-SC-03	295	Phillippi Creek	SW of Bee Ridge Rd. and Cattlemen Rd.	15"	07/17/1998	No	No	182	
OF-SC-03	296	Phillippi Creek	Ditch W. of Cattlemen Rd. on N. side of Bee Ridge Rd.	36"	07/17/1998	No	No	182	Right side.
OF-SC-03	297	Phillippi Creek	Ditch NW of Cattlemen Rd. and Bee Ridge Rd.	2-36", 1-48"	07/17/1998	No	No	182	2-36" pipes on S. side becoming 1-48" on N. side.
OF-SC-03	766	Phillippi Creek	2411 Teal Ave.	24"	07/17/1998	No	No	180	
OF-SC-03	776	Phillippi Creek	Teal Ave. and Beacon	12"	07/17/1998	No	No	180	
OF-SC-03	762	Phillippi Creek	4105 Tern St., behind house.	4'-6'	07/17/1998	No	No	180	Three ditches discharging to lake.
OF-SC-03	785	Phillippi Creek	2953 Mark Dr., behind.	30"	07/17/1998	No	No	180	
OF-SC-03	790	Phillippi Creek	3433 E. Forest Lakes Dr.	48", 20"	07/17/1998	No	No	180	

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Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grid Number	Comments
OF-SA-02	1699	Hudson Bayou	Behind 2159 Floyd St.	30"	03/31/1998	No	No	226	No flow.
OF-SA-02	1700	Hudson Bayou	School Ave. and Temple St., swale between, off Floyd St., large catch basin.	N/A	03/31/1998	No	No	226	No flow.
OF-SA-02	1701	Hudson Bayou	Jefferson St., pipe between Hillview St. and Arlington St.	30"	03/31/1998	Yes	No	233	Flow.
OF-SA-02	1702	Hudson Bayou	Jefferson St., SE corner of ditch between Hillview St. and Arlington St.	24"	03/31/1998	Yes	No	233	Flow.
OF-SA-02	1516	Hudson Bayou	Payne Pkwy. and Oak St., NE of, in pond.	24"	04/01/1998	No	No	253	No flow.
OF-SA-02	1517	Hudson Bayou	Payne Pkwy. and Oak St., NE of, V-notch weir in ditch.	24"	04/01/1998	No	No	253	No flow.
OF-SA-02	1772	Hudson Bayou	Railroad easement NW of Tuttle Ave. and Novus St., 4" pipe, pond to ditch.	4"	04/01/1998	No	No	237	No flow.
OF-SA-02	1773	Hudson Bayou	Railroad easement NW of Tuttle Ave. and Novus St., 6" oval pipe from N. to ditch.	6"	04/01/1998	No	No	237	No flow.
OF-SA-02	1774	Hudson Bayou	Behind 2761 Novus St.	24"	04/01/1998	No	No	237	No flow.
OF-SA-02	1775	Hudson Bayou	E. of Novus St. off Shade Ave. and Jefferson St.	20"	04/01/1998	Yes	No	237	Very low flow.
OF-SA-02	1776	Hudson Bayou	Bay St., W. end, off Tuttle Ave.	18"	04/01/1998	No	No	237	No flow.
OF-SA-02	1777	Hudson Bayou	Jefferson Ave., S. end, off Browning Ave.	20"	04/01/1998	No	No	234	No flow.
OF-SA-02	1787	Hudson Bayou	Courland St. and Euclid Ave., SW corner.	30"	04/01/1998	No	No	236	No flow.
OF-SA-02	1813	Hudson Bayou	Ditch from N. under School Ave., N. side of Middle School.	20"	04/01/1998	No	No	229	No flow.
OF-SA-02	1814	Hudson Bayou	Ditch from S. under School Ave., N. side of Middle School.	20"	04/01/1998	Yes	No	229	Very heavy algae.
OF-SA-02	1819	Hudson Bayou	Bahia Vista St., Pipe from E. discharging into creek on Sarasota High School campus.	36"	04/10/1998	No	No	229	Heavily overgrown.
OF-SA-02	1820	Hudson Bayou	Bahia Vista St., Pipe from W. discharging into creek on Sarasota High School campus.	36"	04/10/1998	No	No	229	Heavily overgrown.
OF-SA-02	1842	Hudson Bayou	Head of creek in Central Park condos	66"	04/10/1998	No	No	225	No flow.

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Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grid Number	Comments
CF-SA-02	1855	Hudson Bayou	Storm water retention pond in Central Park, condos.	2 x 24"	04/10/1998	No	No	225	No flow.
OF-SA-02	1851	Hudson Bayou	Osprey Ave., NW side of Hudson Bayou Bridge.	24"	04/10/1998	No	No	225	Heavy growth, pipe under water.
CF-SA-02	1852	Hudson Bayou	Not located on site.	N/A	04/10/1998	No	No	224	
OF-SA-02	1953	Hudson Bayou	1859 Lincoln Dr., behind.	12"	04/10/1998	No	No	224	No flow.
CF-SA-02	1864	Hudson Bayou	Lincoln Dr. and Alta Vista St.	18"	04/10/1998	No	No	224	Recent evidence of sewage spills at site.
OF-SA-02	1865	Hudson Bayou	NW of Hudson Bayou Bridge at US 41	48"	04/10/1998	No	No	229	No flow.
OF-SA-02	1869	Hudson Bayou	Tamiami Trail S., SW side of Hudson Bayou bridge	48"	04/10/1998	No	No	229	Strong sewage odor from homeless people living under bridge.
CF-SA-02	H2-SA-001	Hudson Bayou	Retention area discharge to north fork, off School Ave. on High School campus	24"	04/10/1998	No	No	229	No flow.
OF-SA-02	1821	Hudson Bayou	Alderman St., E. end, off Orange Ave.	4"	04/13/1998	No	No	251	No flow.
OF-SA-02	1823	Hudson Bayou	Ohio Pl. off Oak St., behind City lift station on S. end of Ohio Pl.	18"	04/13/1998	No	No	251	Some erosion, no flow.
OF-SA-02	1824	Hudson Bayou	Novus St., W. end, off Osprey Ave.	60"	04/13/1998	No	No	251	Very turbid standing water.
OF-SA-02	1859	Hudson Bayou	Citrus Ave., N. end, off Bahia Vista St.	12"	04/20/1998	No	No	224	Hidden in mangroves, no flow.
OF-SA-02	1859	Hudson Bayou	Pomelo Ave., N. end, off Bahia Vista St.	12"	04/20/1998	No	No	224	No flow.
OF-SA-02	1308	Hudson Bayou	NE end of Jefferson Club Apts. off Jefferson Ave., flowing W-E then S.	12"	04/22/1998	No	No	268	Possible yard underdrain pipe nearby.
OF-SA-02	1309	Hudson Bayou	Aspinwall St., E. end, off Suntan Ave.	30"	04/22/1998	No	No	255	No flow.
OF-SA-02	1310	Hudson Bayou	Aspinwall St., W. end, off Briggs.	30"	04/22/1998	No	No	255	No flow.
OF-SA-02	1856	Hudson Bayou	Orange Ave. under NW side of bridge. Behind 1505 Bay Pl. Ct., along mangroves	12"	04/22/1998	No	No	224	No flow.
OF-SA-02	1857	Hudson Bayou		12"	04/22/1998	No	No	224	No flow.
OF-SA-02	1856	Hudson Bayou	Hudson Ave., S. end, off Mound St.	10"	04/22/1998	No	No	224	No flow.

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Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grid Number	Comments
OF-SA-02	1870	Hudson Bayou	Palm Ave., south end, at Selby Gardens.	about 12"	04/22/1998	No	No	224	Pipe filled with debris, outfall possibly covered with debris.
OF-SA-02	1871	Hudson Bayou	Behind 1553 Bay Pt. Dr.	12"	04/22/1998	No	No	224	No flow.
OF-SA-02	1872	Hudson Bayou	Behind 1519 Bay Pt. Dr.	12"	04/22/1998	No	No	224	No flow.
OF-SA-02	1918	Hudson Bayou	Courtyard St. and Tuttle Ave.	not accessible	04/22/1998	No	No	238	No outfall or drains located at site.
OF-SA-01	48	Whitaker Bayou	Old Bradenton Rd. and Village Gardens Rd.	30"	04/27/1998	No	No	311	Pipe is under road; large steel cover over access.
CF-SA-01	54	Whitaker Bayou	46th St. bridge, SE of Old Bradenton Rd.	18"	04/27/1998	No	No	311	Small open ditch drain; no flow.
CF-SA-01	55	Whitaker Bayou	SW side of 46th St. bridge at E. of Old Bradenton Rd.	12"	04/27/1998	No	No	309	Small open ditch drain; no flow.
OF-SA-01	95	Whitaker Bayou	Could not be located.	NA	04/27/1998	No	No	309	Not on map.
OF-SA-01	96	Whitaker Bayou	41st St. bridge, NE of Old Bradenton Rd.	12"	04/27/1998	No	No	309	Small open ditch drain; no flow.
OF-SA-01	97	Whitaker Bayou	40th St. bridge, SE of Old Bradenton Rd.	12"	04/27/1998	No	No	309	Small open ditch drain; no flow.
OF-SA-01	98	Whitaker Bayou	SW of 40th St. bridge, E. of Old Bradenton Rd.	30"	04/27/1998	Yes	No	309	Flow
OF-SA-01	100	Whitaker Bayou	39th St., E. of, off Old Bradenton Rd.	18"	04/27/1998	No	No	309	Small open ditch drain; no flow.
OF-SA-01	101	Whitaker Bayou	38th St. bridge, NE of Old Bradenton Rd.	10"	04/27/1998	No	No	309	Small open ditch drain; no flow.
OF-SA-01	102	Whitaker Bayou	SW side of 38th St. bridge, E. of Old Bradenton Rd.	20"	04/27/1998	No	No	309	Small open ditch drain; no flow.
OF-SA-01	140	Whitaker Bayou	2845 Riverside Dr., across creek	60"	04/28/1998	Yes	No	294	Flow
CF-SA-01	147	Whitaker Bayou	2846 Riverside Dr., across creek	8"	04/28/1998	No	No	294	No flow.
CF-SA-01	150	Whitaker Bayou	Not located on site.	N/A	04/28/1998	N/A	N/A	294	N/A
CF-SA-01	151	Whitaker Bayou	Not located on site.	N/A	04/28/1998	N/A	N/A	294	N/A
OF-SA-01	159	Whitaker Bayou	Not located on site.	N/A	04/28/1998	N/A	N/A	294	N/A
OF-SA-01	160	Whitaker Bayou	Not located on site.	N/A	04/28/1998	N/A	N/A	294	N/A
OF-SA-01	292	Whitaker Bayou	East Ave. and 17th St., NW of, E-W ditch.	20"	04/28/1998	No	No	330	No flow; erosion
OF-SA-01	298	Whitaker Bayou	East Ave., SW side of bridge, N. of 17th St., E-W ditch.	40"	04/28/1998	No	No	330	No flow; erosion

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Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grid Number	Comments
OF-SA-C1	299	Whitaker Bayou	1800 East Ave., S. of. into ditch.	12"	04/28/1998	No	No	330	Erosion; runoff bypassing storm water retention area.
OF-SA-C1	315	Whitaker Bayou	Not located on site.	N/A	04/28/1998	N/A	N/A	330	
OF-SA-01	209	Whitaker Bayou	Behind 2345 Bradenton Rd.	16"	04/28/1998	No	No	291	No flow; large amount of garbage.
OF-SA-01	210	Whitaker Bayou	Tamiami Trail N. at Whitaker Bayou, storm water retention area in front of Whitaker Woods Condos.	15"	04/29/1998	No	No	291	No flow; large amount of garbage.
OF-SA-01	211	Whitaker Bayou	Tamiami Trail N., under SW side of bridge over Whitaker Bayou.	36"	04/29/1998	No	No	291	No flow; large amount of garbage.
OF-SA-C1	219	Whitaker Bayou	Tamiami Trail N. bridge over Whitaker Bayou, NE of.	42"	04/29/1998	No	No	291	No flow; large amount of garbage.
OF-SA-01	238	Whitaker Bayou	Central Ave., E. side, between 23rd and 24th St.	2 x 78"	04/29/1998	Yes	No	231	No flow; garbage, sediment.
OF-SA-C1	239	Whitaker Bayou	Behind 2423 Walker Cl.	15"	04/29/1998	No	No	291	No flow; sediment.
OF-SA-C1	240	Whitaker Bayou	Behind 2409 Walker Cl.	15"	04/29/1998	No	No	291	No flow; garbage, sediment.
OF-SA-C1	241	Whitaker Bayou	Coconut Ave., under N. side of bridge.	18"	04/29/1998	No	No	291	No flow; garbage; sediment.
OF-SA-C1	242	Whitaker Bayou	Coconut Ave. and 21st St., under SW side of bridge.	18"	04/29/1998	No	No	291	No flow; garbage; sediment.
OF-SA-C1	243	Whitaker Bayou	Central Ave., street drains between 23rd and 24th St.	24"	04/29/1998	No	No	291	No flow; garbage; sediment.
OF-SA-C1	287	Whitaker Bayou	22nd St., under W. side of bridge, E. of Orange Ave.	18"	04/29/1998	No	No	302	No flow; garbage; sediment.
OF-SA-C1	288	Whitaker Bayou	22nd St., under E. side of bridge, E. of Orange Ave.	18"	04/29/1998	No	No	302	No flow; garbage; sediment.
OF-SA-C1	289	Whitaker Bayou	21st St., south side, storm water grate between 1747 and 1733.	18"	04/29/1998	No	No	302	No flow; garbage; sediment.
OF-SA-C1	290	Whitaker Bayou	1790 21st St., storm water retention area.	12"	04/29/1998	No	No	302	No flow; garbage; sediment.
OF-SA-C1	291	Whitaker Bayou	1790 21st St., street drains.	24"	04/29/1998	No	No	302	No flow; garbage.
OF-SA-01	546	Whitaker Bayou	12th St. and Shade Ave., W. side of GTE parking lot.	16" square drain	04/29/1998	No	No	270	Runoff from GTE and FPL vehicle maint. areas flows to ditch.
OF-SA-01	547	Whitaker Bayou	5th St. and Lime Ave., storm drain	42"	04/29/1998	No	No	269	No flow

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Basin Number	Station Number	Drainage Basin	Location	Width	Date Confirmed	Field Test Kit	Samples to Lab	Grid Number	Comments
OF-SA-31	548	Whitaker Bayou	Not located on site.	N/A	04/29/1998	N/A	N/A	267	
OF-SA-23	339	Tahiti Lagoon	1130 Tahiti Pkwy	12"	05/07/1998	No	No	288	Small street drain.
OF-SA-23	340	Tahiti Lagoon	1140 Tahiti Pkwy.	12"	05/07/1998	No	No	288	Small swale.
OF-SA-73	342	Hog Creek	Tamiami Trail N. at Hog Creek	24"	05/07/1998	No	No	289	Not visible.
OF-SA-23	343	Hog Creek	Tamiami Trail N. and Hog Creek, NW of.	24"	05/07/1998	No	No	289	Not visible
OF-SA-23	434	Hog Creek	City RO discharge point.	48"	05/07/1998	No	No	289	
OF-SA-23	435	Hog Creek	Across from 1142 Coconut Ave.	24"	05/07/1998	No	No	289	
OF-SA-23	1117	Sarasota Bay	Bay Pt. Rd. and Gulfview Dr.	12"	05/11/1998	No	No	224	Two street drains; both clogged.
OF-SA-23	1118	Sarasota Bay	Behind 1514 Gulfview Dr.	12"	05/11/1998	No	No	224	Street drain.
OF-SA-23	1119	Sarasota Bay	1220 Orange Ave., W. end of Bahia Vista St.	24"	05/14/1998	No	No	224	Through seawall.
OF-SA-23	1120	Sarasota Bay	Behind 1348 Harbor Dr.	12"	05/14/1998	No	No	224	Through seawall.
OF-SA-23	1121	Sarasota Bay	Behind 1362 Harbor Dr.	12"	05/14/1998	No	No	224	Through seawall.
OF-SA-23	1123	Sarasota Bay	Behind 1396 Harbor Dr.	12"	05/14/1998	No	No	221	
OF-SA-23	1124	Sarasota Bay	Behind 1416 Harbor Dr.	12"	05/14/1998	No	No	221	
OF-SA-23	700	Sarasota Bay	Van Wezel Bayou, SW shore, near mouth.	15"	05/15/1998	No	No	288	Buried by vegetation.
OF-SA-23	701	Sarasota Bay	Van Wezel Bayou, SE of	38"	05/15/1998	No	No	288	
OF-SA-23	710	Sarasota Bay	Hyatt Hotel boat basin, SW side of mouth of basin.	18"	05/15/1998	No	No	259	
OF-SA-23	711	Sarasota Bay	Tamiami Trail, between 2nd and 3rd Streets	24"	05/15/1998	No	No	259	Street drainage; S. side of Fruitville Rd.
OF-SA-23	1053	Sarasota Bay	SE corner of Marina Jack, inner S. basin.	48"	05/15/1998	No	No	242	Large drain; drains downtown.



1998 INSPECTIONS OF HIGH-RISK INDUSTRIAL FACILITIES
IN THE CITY OF SARASOTA

Grid	Company Name	Company Address	Phone	Contact Person	Mfg. Activity	SIC Code	Category	Date of Inspection	Inspector	NPDES Permit Status	Drainage Basin
299	Custom Cabinets Inc.	2030 Harvard St., Sarasota, FL 34237	366-0428	Cloyd Ridenoyr, Pres.	custom cabinets	2434	light	01/07/1998	DW, LLA	light industrial facility exemption	Whitaker Bayou
299	Little Cabinets	1314 N. East Ave., Sarasota, FL 34232	366-0315	Cameron D. Little	custom cabinets	2434	light	01/07/1998	DW, LLA	relocated out of County	Whitaker Bayou
299	Quick-Fit	1314 N. East Ave., Sarasota, FL 34237	362-3254	Dottie Fnnke, Owner	canvas products	2394	light	01/07/1998	DW, LLA	light industrial facility exemption	Whitaker Bayou
307	Sarasota Cabinetry	3060 N. Washington Blvd., Sarasota, FL 34234	351-5588	James & Alice Graybill	custom cabinets	2434	light	01/07/1998	DW	relocated out of County	Whitaker Bayou
249	American Specialties and Printing (formerly American Speedy)	1662 Main St., Sarasota, FL 34236	957-1660	Shirley Schoenigh	printing co.	2759	light	02/12/1998	DW, BM	light industrial facility exemption	Coastal City of Sarasota
254	Henderson Printing	2168 Main Street Sarasota, FL 34237	955-9600	Jo Ann Henderson	printing co.	2759	light	02/12/1998	DW, BM	light industrial facility exemption	Hudson Bayou
250	Kwik Kopy Printing	1900 Main St., Sarasota, FL 34236	365-2711	Isaac Azerad	printing co.	2759	light	02/12/1998	DW, BM	light industrial facility exemption	Hudson Bayou
245	Mercury Printing	1605 Main St. Suite 1020, Sarasota, FL 34236	366-8494	Dick Hammerich	printing co.	2759	light	02/12/1998	DW, BM	light industrial facility exemption	Coastal City of Sarasota
249	Sir Speedy Printing	1697 Main St., Sarasota, FL 34236	365-0458	Mike Sanderson	printing co.	2759	light	02/12/1998	DW, BM	light industrial facility exemption	Coastal City of Sarasota
203	Superior Furniture, Inc. / Casual Creations	2044 47th St., Sarasota, FL 34234	355-8523	Rainer School	furniture	2511	light	03/11/1998	BM	light industrial facility exemption	Whitaker Bayou
290	Universal Concrete Products Corp	1189 St. Orange Ave., Sarasota, FL 34236	957-0270	Wayne Rentmeester	precast concrete	3273	heavy	04/27/1998	DW, CC	may need DEP IW permit	Whitaker Bayou
201	Victor Dessberg	3935 N. Washington Blvd., Sarasota, FL 34237	955-5950	Victor Dessberg	bag mfg.	2393	light	11/10/1998	BM	light industrial facility exemption	Whitaker Bayou
250	Ando Engineering, Inc.	1900 2nd St., Sarasota, FL 34236	957-3080	Dr. Gerald Ross	semiconductors and devices	8711	check code	12/07/1998	BM	exempt- office only	Hudson Bayou
246	CC By Ruthie & Me	1379 McAnsh Sq., Sarasota, FL 34243	954-3301	N/A	art goods	3299	N/A	12/07/1998	BM	no longer in business	Coastal City of Sarasota
245	Confech Construction Products, Inc.	1343 Main St., Suite 406, Sarasota, FL 34236	366-2102	G. Robert Gage	construction equipment mfg.	3531	light	12/07/1998	BM	exempt-office only	Hudson Bayou
218	David Anne	1807 Grove St., Sarasota, FL 34239	366-0343	William Maudin	doll mfg.	3942	light	12/07/1998	BM	out of business	Hudson Bayou
246	Elfin Music	333 S. Pineapple Ave., Sarasota, FL 34236	365-8655	Ed Van Fleet	new age tapes and CD's	3652	light	12/07/1998	BM	exempt-office only	Coastal City of Sarasota
229	Group D	2035 Bahia Vista St., Sarasota, FL 34239	957-4949	Perry R. Tennell	jewelry mfg.	3911	light	12/07/1998	BM	light industrial facility exemption	Hudson Bayou
252	Inflight, Inc.	1938 Adams Lane, Sarasota, FL 34236	355-3121	Patrick A. Hargabus	lamp mfg.	3641	light	12/07/1998	BM	no longer in business	Hudson Bayou
249	Kinetronics Corp.	1778 Main St., Sarasota, FL 34236	951-2432	Eric Stasen	optics and related equipment	3827	light	12/07/1998	BM	light industrial facility exemption	Coastal City of Sarasota
251	Lori S. Smith	1681 Oak St., Sarasota, FL 34236	955-1141	Lori S. Smith	seamstress	2389, 5949	code changed to 5949	12/07/1998	BM	exempt-home business	Hudson Bayou

1998 INSPECTIONS OF HIGH-RISK INDUSTRIAL FACILITIES
IN THE CITY OF SARASOTA

Grid	Company Name	Company Address	Phone	Contact Person	Mfg. Activity	SIC Code	Category	Date of Inspection	Inspector	NPDES Permit Status	Drainage Basin
224	Sarasota Printing, Inc.	1115 S. Tamiami Trail, Sarasota, FL 34235	957-3448	Beverly & Nick Antonias	printing co.	2759	light	12/07/1998	BM	light industrial facility exemption	Hudson Bayou
224	Table Attire	1012 S. Osprey Ave., Sarasota, FL 34235	362-4015	Bruce Gutilla	specialty merchandise	3999	light	12/07/1998	BM	exempt-home business	Hudson Bayou
225	Teresa Mills	2300 Hawthorne St., Sarasota, FL 34239	955-1611	Teresa Mills	custom made orthodontics	3842	light	12/07/1998	BM	exempt-home business	Hudson Bayou
246	Van Derpool & McCoy, Inc.	431 Burns Court, Sarasota, FL 34236	362-9302	Joann & James Grace	accessories	3961	light	12/07/1998	BM	exempt-office only light industrial facility	Coastal City of Sarasota
213	We Be Printin, Inc.	2125 Siesta Dr., Sarasota, FL 34239	953-5566	Ann E. Haines	printing co.	2759	light	12/07/1998	BM	light industrial facility exemption	Philippi Creek
255	Gamco International	2153 Tenth St., Sarasota, FL 34237	365-1133	Ronald H. Yaffe	games mfg.	3944	light	12/08/1998	BM	no longer in business light industrial facility	Hudson Bayou
255	J & J Distributors	2168 10th St., Sarasota, FL 34237	955-0033	Charles Ackerman	T-shirt printing	2396	light	12/08/1998	BM	light industrial facility exemption	Hudson Bayou
255	Jambo Systems, Inc.	424 S. Washington Blvd., Sarasota, FL 34236	951-7888	Steven Eason	sign mfg.	3993	light	12/08/1998	BM	no longer in business	Hudson Bayou
264	Jean Lynn Custom Binding	2650 Davis Blvd., Sarasota, FL 34237	374-5816	Jean Lynn	book binding	2732	light	12/08/1998	BM	exempt-home business	Hudson Bayou
267	Spinks Ink Co.	361 Apricot Ave., Sarasota, FL 34237	366-3336	Denrus Miller	ink mfg. or newspaper publisher	2893	light	12/08/1998	BM	undetermined at this time	Hudson Bayou
267	American Advertising Agency, Inc.	463 W. Lime Ave., Sarasota, FL 34237	365-7443	Thomas Rumpf	printing co.	2759	light	12/08/1998	BM	no longer in printing business	Hudson Bayou
299	Artistic Neon Sign Company	1314 N. East Ave., Sarasota, FL 34232	364-9457	Anthony Sutowski	sign mfg.	3993	light	12/09/1998	BM	light industrial facility exemption	Whitaker Bayou
271	Automotive Electronics, Inc.	1312 North Lime Ave Sarasota, FL 34237	953-3399	Joseph L. Lund	auto electrical parts mfg.	3694	light	12/09/1998	BM	no longer in operation	Whitaker Bayou
270	Classic Studios	1172 N. Jefferson Ave. Sarasota, FL 34237	957-1011	J. Scott Hamblin	sign mfg.	3993	light	12/09/1998	BM	undetermined at this time	Whitaker Bayou
209	Hugh White	15 Crossroads, Suite 105, Sarasota, FL 34239	955-5508	Hugh White	cabinets	2434	light	12/09/1998	BM	exempt-home business	Whitaker Bayou
299	Interiors by Pearl	1102 East Avenue N., Sarasota, FL 34237	955-5914	Pearl Hancock	window treatment	2211 or 2391	light	12/09/1998	BM	light industrial facility exemption	Whitaker Bayou
274	Jasper Soapworks	3093 6th St., Sarasota, FL 34237	953-6570	Susan Taylor	specialty merchandise	3999	light	12/09/1998	BM	exempt-home business	Philippi Creek
299	John Cusimano	1316 East Ave., Sarasota, FL 34233	921-5486	John Cusimano	furniture mfg.	2511	light	12/09/1998	BM	light industrial facility exemption	Whitaker Bayou
298	Thermal Conversion Technology	1695 12th St (rear), Sarasota, FL 34237	953-2177	Griff Carrison	solar water system	3433 or 3443	light	12/09/1998	BM	light industrial facility exemption	Whitaker Bayou
271	Trophy Reloading Service	1225 Zaccaria Ave., Sarasota, FL 34236	953-5545	William Butz	ammunition mfg., reloading	3483	light	12/09/1998	BM	light industrial facility exemption	Whitaker Bayou
310	Cafe of the Arts	5230 N. Tamiami Trail, Sarasota, FL 34234	351-4304	Alain Taulere	restaurant	5812	commercial	12/10/1998	BM	no longer in business	Whitaker Bayou

1998 INSPECTIONS OF HIGH-RISK INDUSTRIAL FACILITIES
IN THE CITY OF SARASOTA

Grid	Company Name	Company Address	Phone	Contact Person	Mfg. Activity	SIC Code	Category	Date of Inspection	Inspector	NPDES Permit Status	Drainage Basin
300	Creative Closets	2239 15th St., #A, Sarasota, FL 34237	953-3672	Kathleen Pinto	closet mfg.	3999	light	12/10/1998 BM		light industrial facility exemption	Whitaker Bayou
302	Coaling, Inc.	1848 Gillespie Ave., Sarasota, FL 34234	953-7997	Tom Parise	powder coat job shop	3479	light	12/10/1998 BM		undetermined at this time	Whitaker Bayou
307	Feather Candles	3080 N. Washington Blvd., Sarasota, FL 34234	355-6736	Henry McCarthy	boat mfg.	3732	heavy	12/10/1998 BM		undetermined at this time	Whitaker Bayou
307	Fifth Generation, Inc.	3080 N. Washington Blvd., Unit 20X, Sarasota, FL 34234	355-5515	Craig Blethen	book binder	2732	light	12/10/1998 BM		light industrial facility exemption	Whitaker Bayou
303	Heidenthal Signs	2110 20th St., Sarasota, FL 34234	955-1088	Jonathan Heidenthal	sign mfg.	3993	light	12/10/1998 BM		light industrial facility exemption	Whitaker Bayou
299	Hydraulic Manufacturing Co	2152 12th St., Sarasota, FL 34235	365-3655	Bob Derek	hand pump assembly	2432 or 3569	light	12/10/1998 BM		light industrial facility exemption	Whitaker Bayou
299	Hydraulic Manufacturing Co	2153 12th St., Sarasota, FL 34278	365-3655	Bob Derek	kinetic water rams (pumps)	3432 or 3569	light	12/10/1998 BM		light industrial facility exemption	Whitaker Bayou
259	Jackie Sels Spa Covers	2057 Princeton St., Sarasota, FL 34237	366-1119	Jacqueline Soil	canvas products	2394	light	12/10/1998 BM		no longer in business	Whitaker Bayou
300	Liquid Culture, Inc.	1604 East Ave. North, Sarasota, FL 34237	954-8034	Gary R. Lutz	hand decorated shirts	2253	light	12/10/1998 BM		no longer in business	Hudson Bayou
267	Mark Snowden	520 Mango Ave., Sarasota, FL 34237	362-0566	Mark Snowden	custom cabinets	2434	light	12/10/1998 BM		light industrial facility exemption	Hudson Bayou
300	Peek Traffic, Inc.	1500 N. Washington Blvd., Sarasota, FL 34236	366-8770	William L. Russell	traffic control devices, gates, electronics	3669	light	12/10/1998 BM		light industrial facility exemption	Hudson Bayou
300	Sarasota Shutters	1350 Manhattan Ave., Sarasota, FL 34237	365-0533	Steve Baxter	shutter mfg.	3442	light	12/10/1998 BM		light industrial facility exemption	Hudson Bayou
300	Sesco Engine & Machine	2031 13th St., Sarasota, FL 34237	955-8369	N/A	machine shop	3599	light	12/10/1998 BM		out of business	Hudson Bayou
315	Signtline	615 Corwood Drive, Sarasota, FL 34234	351-6152	Anne Brian	architectural models	3299	check code	12/10/1998 BM		exempt-home business	Coastal City of Sarasota
303	Spotlight Graphics, Inc.	2400 N. Washington Blvd., Sarasota, FL 34234	957-3511	Ron Morris	printing co.	2759	light	12/10/1998 BM		undetermined at this time	Whitaker Bayou
305	Tempe News	3006 Goodrich Ave., Sarasota, FL 34234	359-1065	Johnny Hunter, Sr.	newspaper publisher	2711	light	12/10/1998 BM		light industrial facility exemption	Whitaker Bayou
303	Cabinets	2418 Washington Blvd N., Sarasota, FL 34234	355-5260	Terry Davine	cabinets	2434	light	12/10/1998 BM		light industrial facility exemption	Whitaker Bayou

1998 INSPECTIONS OF HIGH-RISK INDUSTRIAL FACILITIES

UNINCORPORATED SARASOTA COUNTY

Grid	Company Name	Company Address	Phone	Contact Person	Mfg. Activity	SIC Code	Category	Date of Inspection	Inspector	NPDES Permit Status	Drainage Basin
36	BM Sports Screenprinting	140 Columbia Rd. Venice FL 34297	437-6319	Jeff Pennell	ink screening	2396	light	01/04/1998	BM	exempt-home business	Woodmere
104	Country Cabinets of Venice, Inc.	158 James St. Venice, FL 34282-3353	464-6170	Paul R. Smith (owner)	kitchen cabinets mfg	2434	light	01/04/1998	BM	light industrial facility exemption	Hatchett Creek
111	Shopper Press	6550 Park Shore Lane, Sarasota, FL 34238	915-6441	Amy Knapp	publishing co	2731	light	01/04/1998	BM	exempt-home business	South Creek or North Creek
400	Fred Bucks Machine Appliance	524 Paul Morris Dr. Englewood, FL 34223	727-9560	Fred Buck	machine shop	3556	light	01/04/1998	BM	relocated out of County	Ainger Creek
104	Marble Advanced Solid Surfaces	170 James St. Venice, FL 34297	464-7776	David Bernie Peterson	counter tops	2541	light	01/05/1998	BM	undetermined at this time	Hatchett Creek
100	Artura's Cabinets, Inc.	1241 Myakka Rd. Sarasota, FL 34240	322-1721	Shirley Arthur	counter tops	2541	light	01/05/1998	BM	exempt-home business	Myakka River
132	Chenel Blinds & Shades, Inc.	6211 S. Manatee Rd. Sarasota, FL 34238	923-1199	Richard Chenel	wood work	2431	heavy	03/26/1998	BM	undetermined at this time	Catfish Creek
133	Milwaukee, Inc.	3900 Oak Rd. #11 Sarasota, FL 34233	923-9525	Buzz Taylor	electronics mfg	3675	light	03/26/1998	BM	light industrial facility exemption	Phillips Creek
121	Taylor Electronics, Inc.	2100 Davis St. Sarasota FL 34231	925-4099	Buzz Taylor	electronics mfg	3675	light	03/26/1998	BM	light industrial facility exemption	Phillips Creek
121	Jean McDonald	12140 Buchanan Rd. Sarasota, FL 34234	925-4477	Jean McDonald	spamsless	5546	retail	03/03/1998	BM	exempt - home business	Coopers Creek
126	Fitness Emporium America, Inc.	3117 Chase Cir. Sarasota FL 34231	923-6491	Stephen M. McLaughlin	printing co	2721	light	03/03/1998	BM	no longer in business	Matheny Creek
131	Cal America, Inc.	6101 Matheny Rd. Sarasota, FL 34233	922-5301	Stephen Witzer	trailer mfg	3799	light	03/03/1998	BM	light industrial facility exemption	Catfish Creek
134	Wedge Trailer, Inc.	5774 S. Manatee Tr. Sarasota, FL 34234	925-7440	Burt Frank	sign mfg	3693	light	03/03/1998	BM	light industrial facility exemption	Phillips Creek
136	Signs On The Way	4067 S. Manatee Tr. Sarasota, FL 34231	923-7005	William R. Lacey (owner)	sign mfg	3693	light	03/03/1998	BM	light industrial facility exemption	Phillips Creek
143	Antenn Signs, Inc.	1915 Venice St. Sarasota, FL 34231	922-3400	Lucy Branca (CEO)	communications/ computer systems	3663	light	03/03/1998	BM	light industrial facility exemption	Roberts Bay
140	Technologies	4003 Sawmill Rd. #203 Sarasota, FL 34233	921-9476	Sam H. Sprudl	cabinet shop	2434	light	03/03/1998	BM	light industrial facility exemption	Phillips Creek
149	S & P Woodworking	5957 Sarah Ave. Sarasota, FL 34233-3460	922-6467	Gary Pugh	wooden tables, furniture	2511	light	03/03/1998	BM	light industrial facility exemption	Catfish Creek
173	Accents	4058 Ashton Rd. Sarasota, FL 34233	923-7612	David R. Hartman	boards	2591	light	03/03/1998	BM	light industrial facility exemption	Catfish Creek
172	C & B, Inc. Diesel Manufacturing, Inc.	4651 Samuel St. Sarasota, FL 34233	925-7029	Don Pescano	construction equipment mfg	3531	light	03/03/1998	BM	light industrial facility exemption	Catfish Creek
173	Ed & Gay's Shutter Shop	4601 Sarah Ave. Sarasota, FL 34231	924-7616	Edward E. Wolf	shutter mfg	2493	heavy	03/03/1998	BM	undetermined at this time	Catfish Creek
173	Gulf Coast Manufacturing	4662 Peyton Rd. Sarasota, FL 34233	925-6567	E. Colwell	machinery mfg	3829	light	03/03/1998	BM	light industrial facility exemption	Catfish Creek
173	Alfredo Cabinets, Inc.	5414 Ashton Ct. Sarasota, FL 34233	924-2581	Jeffrey Albrecht	cabinets and vanities	2434	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
173	American Sign Company, Inc.	5377 Ashton Ct. Sarasota, FL 34233	921-6511	Larry Jones (president)	sign mfg	3693	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
173	OKD, Inc.	5422 Ashton Ct. #10 Sarasota, FL 34233	927-6616	Kevin or Clayton Osgood	machine shop	3599	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek

1998 INSPECTIONS OF HIGH-RISK INDUSTRIAL FACILITIES

UNINCORPORATED SARASOTA COUNTY

Grd	Company Name	Company Address	Phone	Contact Person	Mfg. Activity	SIC Code	Category	Date of Inspection	Inspector	NPDES Permit Status	Drainage Basin
173	Corliss Precision Tool Inc.	5730 Sarah Ave #B-5 Sarasota, FL 34233	922-5524	Richard R. Corliss	machine parts shop	3595	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
173	Entore Engineering Inc.	5424 Ashton Ct #D Sarasota, FL 34233	921-5123	Susan Freeska	graphic printer inst assembly	3599	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
173	Gulf Coast Overstairless Inc.	5427 Ashton Ct Sarasota, FL 34233	923-5556	Roy Rosebrock (manager)	sheet metal mfg	3520	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
173	Kneels Performance Machine	4552 Ardun Rd Sarasota, FL 34233	921-7223	Stephen B. Kneel	machine shop	3599	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
173	Ozone Pure Water Inc.	5335 Ashton Ct Sarasota, FL 34233	923-6525	Roger Nathanson	water treatment eqpt	3585	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
173	Southeastern Wholesale Corporation	5325 Ashton Ct Sarasota, FL 34233-9559	923-2263	W. T. Weaver Jr	pocket door frames	2439	heavy	03/04/1998	BM	undetermined at this time	Catfish Creek
173	The Parker Group	5384 Catalyst Ave Sarasota, FL 34233	924-1434	Arnold Parker	novelty products mfg	3595	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
173	Woodenke of Sarasota Inc.	5388 Catalyst Ave Sarasota, FL 34233	925-4126	Steve Cyr	door & furniture mfg	2511	light	03/04/1998	BM	light industrial facility exemption	Catfish Creek
102	A. J. Strainers Inc.	4023 Sawyer Rd #237 Sarasota, FL 34232	927-2455	Jason J. Jurga	stainless steel industrial strainers	3492	light	03/05/1998	BM	light industrial facility exemption	Philippi Creek
173	Parmer Corporation	5436 Ashton Ct Sarasota, FL 34233	924-1255	Peter Catilias or Scott Heddaeus (president)	machine shop	3599	light	03/05/1998	BM	light industrial facility exemption	Catfish Creek
174	Light House Publications	5200 Bliss Rd Sarasota, FL 34233	922-5407	Paul Bender	publishing co.	2731	light	03/06/1998	BM	no longer in business	Catfish Creek
164	Allyson Service	4510 Selma St Sarasota, FL 34232	921-9373	Jean R. Fieding	publishing co.	2731	light	03/06/1998	BM	exempt - home business	Philippi Creek
164	Robyn Halman	2124 Vinson Ave Sarasota, FL 34232	957-5377	Robyn Halman	clothing mfg	2369	light	03/06/1998	BM	exempt - home business	Philippi Creek
135	Corrugated Packaging Inc.	1583 Gadliem Rd Sarasota, FL 34232-6232	311-0000	Mark Segel	corrugated box mfg	2653	light	03/06/1998	BM	light industrial facility exemption	Philippi Creek
165	Gaber Cabinets	1955 Gadliem Rd Sarasota, FL 34232	311-0352	Todd Schlichter	cabinets	2434	light	03/06/1998	BM	light industrial facility exemption	Philippi Creek
165	Enterprise	1507 Gadliem Rd #D Sarasota, FL 34232	925-9803	Dan Westbrook	pressure cleaning mfg	3532	light	03/06/1998	BM	light industrial facility exemption	Philippi Creek
167	G. C. Messer & Son Inc.	5358 McDonwy St Sarasota, FL 34232	921-2427	Stephen D. Messer	cabinets kitchen mfg	2434	light	03/06/1998	BM	light industrial facility exemption	Philippi Creek
167	T. G. Custom Ties Inc.	5844 1/2 Parmer Blvd Sarasota, FL 34232	921-5245	Tom Guadagno	haier mfg	3799	light	03/06/1998	BM	light industrial facility exemption	Philippi Creek
173	The Printers Supply Company	4060 Ashton Rd Sarasota, FL 34233	922-2701	David Mouatt	machine parts mfg	3485	light	03/09/1998	BM	light industrial facility exemption	Catfish Creek
165	Res. Cabinetry	1665 Cadalen Rd Sarasota, FL 34232	317-2837	Mark Reall	custom made cabinets	2434	light	03/09/1998	BM	light industrial facility exemption	Philippi Creek
167	Unique Sheds	3750 Frisville Rd Sarasota, FL 34232	375-9600	Lester Gugenich	sheds	3448	light	03/09/1998	BM	light industrial facility exemption	Philippi Creek
165	Scotton-A-Ross Inc.	1732 N. Monroe Ave Sarasota, FL 34235	942-1245	Jane M. Watson	food process mfg	2033	light	03/10/1998	BM	not at address and can not be reached by phone	Philippi Creek
221	American Airco Ventilation Corporation	4537 Northgate Ct Sarasota, FL 34234	351-3441	Dwight Shackelford	fan mfg - ventilation	3634	light	03/10/1998	BM	light industrial facility exemption	Whisper Bayou

1998 INSPECTIONS OF HIGH-RISK INDUSTRIAL FACILITIES

UNINCORPORATED SARASOTA COUNTY

Grid	Company Name	Company Address	Phone	Contact Person	Mfg. Activity	SIC Code	Category	Date of Inspection	Inspector	NPDES Permit Status	Drainage Basin
200	Baker Electronics, Inc.	1734 Northgate Blvd Sarasota, FL 34234	355-7625	Jim Finno (waste manager)	electronics mfg	3579	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
201	Best Craft Cabinets of Sarasota Inc.	4431 Independence Ct. Unit A Sarasota, FL 34234	351-8197	Ray Taylor (owner)	kitchen cabinets mfg	2434	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
201	Fastech, Inc.	1712 Northgate Blvd Sarasota, FL 34234	351-0947	Ola Wettergren or Rainer T. Blomstuf (president)	lan mfg	3534	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
201	Gulf Coast Signs of Sarasota, Inc.	1713 Northgate Blvd Sarasota, FL 34234	355-8841	John Campbell	sign mfg	3593	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
201	Label Tape Systems, Inc.	1721 Independence Blvd. A Sarasota, FL 34234	355-8477	John H. Ellington	labels	3599	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
201	Priority One America, Inc.	1676 Independence Blvd. Sarasota, FL 34234	355-6706	Colin Cunningham	machinery mfg	3529	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
201	Protek Electronics, Inc.	1781 Independence Blvd. Sarasota, FL 34234	351-4359	Jeffrey B. Moler (President)	electronics mfg	3579	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
201	Tronington Brush of Florida, Inc.	4306 Independence Ct. Sarasota, FL 34234	355-1459	Sidney Fitzgerald	brush mfg	3591	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
203	BNP Corporation	2347 Industrial Blvd. Sarasota, FL 34234	351-6654	Charles J. Burbot	plating	3471	light	03/10/1998	BM	merged with VCO Technologies, Inc.	Whitaker Bayou
203	Madison Circuits Corp.	2239 Industrial Blvd. Sarasota, FL 34234	355-8181	Morris H. McCurry	electronics mfg	3579	light	03/10/1998	BM	light industrial facility exemption	Whitaker Bayou
204	S.A.S. Structural Systems, Inc.	5540 Deacon Rd. Sarasota, FL 34235	922-6281	Kelly Coffin or Bill Tilling (Manager)	concrete hollow core slabs	3272	heavy	03/10/1998	DW	may need C&P (W) permit	Calfish Creek
205	SMC of Sarasota, Inc.	6235 S. Mountain Rd. Sarasota, FL 34232	325-5500	Diane Foster	sensor mfg	3663	light	03/11/1998	BM	light industrial facility exemption	Calfish Creek
207	Beverly Custom Design, Inc.	743 Gantt Ave. Sarasota, FL 34232	371-7436	Carl J. Byerly	kitchen cabinets	2434	light	03/11/1998	BM	light industrial facility exemption	Phillippi Creek
201	Sarasota Glass Fashions, Inc.	1520 Independence Blvd. Sarasota, FL 34234	355-1922	Keith Poole	wooden store fixtures	2541	light	03/11/1998	BM	light industrial facility exemption	Whitaker Bayou
207	Harlan K. Morgan	5053 Sea Island Ave. Sarasota, FL 34234	355-0126	Harlan K. Morgan	jewelry mfg	3511	light	03/11/1998	BM	exempt - home business	Whitaker Bayou
209	Harmer Products, Inc.	2075 47th St., Sarasota, FL 34234	351-2776	Robert Williams	dishwasher rack mfg	3498	light	03/11/1998	BM	light industrial facility exemption	Whitaker Bayou
203	Superior Furniture, Inc.	2644 47th St., Sarasota, FL 34234	355-8523	Danny Jennings	slat, rum patio furniture	2514	light	03/11/1998	BM	light industrial facility exemption	Whitaker Bayou
202	Attitudes Magazine	3425 Highlands Bridge Rd. Sarasota, FL 34235	371-6550	Janet McLaughlin	publishing co.	2731	light	03/16/1998	BM	exempt - home business	Phillippi Creek
201	Dynac Systems Engineering, Inc.	1675 Independence Blvd. Sarasota, FL 34234	355-0500	John F. Barrett (President)	machine mfg	3575	light	03/16/1998	BM	light industrial facility exemption	Whitaker Bayou
203	Cotex Corp.	2202 Industrial Blvd. Sarasota, FL 34234	351-1601	John Weaver	injection molding (plastics)	3544	light	03/16/1998	BM	light industrial facility exemption	Whitaker Bayou
203	Windy City Enterprises, Inc.	2237 Industrial Blvd. Sarasota, FL 34234	355-3450	Sharon Carpio	embroidery	2395	light	03/16/1998	BM	relocated out of County	Whitaker Bayou

1998 INSPECTIONS OF HIGH-RISK INDUSTRIAL FACILITIES

UNINCORPORATED SARASOTA COUNTY

Grid	Company Name	Company Address	Phone	Contact Person	Mfg. Activity	SIC Code	Category	Date of Inspection	Inspector	NPDES Permit Status	Drainage Basin
201	Atlantic Precast Concrete	1731 Myrtle St. Sarasota, FL 34234	925-3888	James A. Westhoff (owner)	concrete products	3272	heavy	03/19/1998	DW-CC	may need D&F (W) permit	Whitaker Bayou
15-D	PGI Industries, formerly Vinyltech	1070 Technology Dr. Nokomis, FL 34274	433-4855	A. London	glass products made from purchased glass	3251	light	03/19/1998	DW-CC	undetermined at this time	Shaker Creek
203	Chemtec, Inc.	2215 Industrial Blvd., Sarasota, FL 34234	355-1045	Denise Delaney, President	odor control products mfg	2819 or 2899	heavy	03/27/1998	CW-LLA,LR	undetermined at this time	Whitaker Bayou
15-B	Johson Concrete Pipe Co., Inc.	69 W. Center Rd., Venice, FL 34294	433-9109	Roger Beaton, President	concrete pipes	3272	heavy	03/30/1998	DW-CC	undetermined at this time	Coastal City of Venice
201	Sarasota Precast Products, Inc.	1415 Myrtle St. Sarasota, FL 34234	355-4360	R. J. McCarthy	concrete products mfg	3272	heavy	04/27/1998	DW-CC	undetermined at this time	Whitaker Bayou
201	Independent Concrete Products Corp.	2074 47th St. Sarasota, FL 34234	355-1383	Lawrence Gallagher	concrete products mfg	3272	heavy	04/27/1998	DW-CC	undetermined at this time	Whitaker Bayou
114-W	Comptek, Inc.	5200 Puffer Rd. Sarasota, FL 34240	371-8110	Robert J. Winkler Jr.	refrigerator door mfg	3460	light	05/26/1998	DW	light industrial facility exemption	Philippi Creek
114-W	Decor Ceramic Design, Inc.	1544 Apex Rd. Sarasota, FL 34240	378-3121	Mary Cain	tile mfg	3253	heavy	05/26/1998	DW	undetermined at this time	Philippi Creek
173	Dana Corp. Giesen Hydraulics Division	14875 Clark Rd. Sarasota, FL 34239	921-2060	Gene Duckett	hydraulic equipment	3492	light	05/27/1998	DW	have an EPA discharge permit	Catfish Creek
115-F	Sash Paint Corporation	7639 Fruitville Rd. Sarasota, FL 34240	911-5015	Scott K. Wagman	paint mfg	2851	light	05/27/1998	DW	light industrial facility exemption	Philippi Creek
201	Anderson Asphalt Services, Inc.	1775 Myrtle St. Sarasota, FL 34234	351-6555	Greg Anderson	two activities: asphalt coating and ready mix concrete	2951 3273	commercial	06/02/1998	DW	exempt	Whitaker Bayou
201	Steel Products, Inc.	1821 Myrtle St. Sarasota, FL 34234	351-8125	Tom Josee, President	custom metal fabrication	3443	light	06/02/1998	DW	light industrial facility exemption	Whitaker Bayou
201	Rumrill Vending	1714 Independence Blvd. Sarasota, FL 34234	355-6046	Thomas B. Pifer	metal fabrication mfg	3312	heavy	06/17/1998	DW-DB	undetermined at this time	Whitaker Bayou
115-W	Shelley Paint & Body	16281 E. Sawgrass Rd. Sarasota, FL 34238	378-6304	Steve Green, owner	auto body shop	7532	commercial	06/17/1998	DW	exempt	Philippi Creek
201	Budget Wholesale Marten & Sons, Inc.	1743 Independence Blvd., Suite C6 R Sarasota, FL 34234	355-1570	Roger F. Wilson	custom metal fabrication	3441	heavy	06/18/1998	DW	undetermined at this time	Whitaker Bayou
201	Walsh Interiors Inc.	1751 Northgate Blvd. Sarasota, FL 34234	359-3109	Dan Fogazzi	stucco mfg	3241	heavy	06/18/1998	DW	undetermined at this time	Whitaker Bayou
155	Rayners Fireplaces & Steel Metal	1705 Cadman Rd. (S-1) Sarasota, FL 34232	371-4112	Fred Rayner	fireplace mfg	3312	heavy	06/18/1998	DW	undetermined at this time	Philippi Creek
157	Sharp Auto Products	1649 Papermill Rd. Sarasota, FL 34232	371-0673	Robert Sharp	wood products mfg	2499	heavy	06/18/1998	DW	undetermined at this time	Philippi Creek
155	Parsons Industries, Inc.	1751 Cadman Rd. Sarasota, FL 34232	375-6077	William & Claudia Reed	concrete repair products/waterproofing	3272	heavy	06/22/1998	DW	no longer in business	Philippi Creek
114-W	Thayer Products	1774 Barber Rd. Sarasota, FL 34240	377-5354	John Kwczak	acrylics	2821	heavy	06/23/1998	DW	undetermined at this time	Philippi Creek

1998 INSPECTIONS OF HIGH-RISK INDUSTRIAL FACILITIES

UNINCORPORATED SARASOTA COUNTY

Grid	Company Name	Company Address	Phone	Contact Person	Mfg. Activity	SIC Code	Category	Date of Inspection	Inspector	NPOES Permit Status	Drainage Basin
201	APAC Florida, Inc. Composite Technology	1451 Mundy Rd., Sarasota, FL 34234 5775 S. Mountain Rd. Sarasota, FL 34233-3457	355-7176	Jack Simpson, Safety Director	asphalt road construction aluminum screen door mfg.	2851 3231	commercial light	06/24/1998 07/09/1998	DW DB DW	exempt light industrial facility exemption	Whitaker Bayou Cortis Creek
25	Seasol-World, Inc.	355 Center Ct., Venice, FL 34292	497-1954	Tom Casan	door/window mfg.	3231	light	07/13/1998	DW	light industrial facility exemption	Coastal City of Venice
25	RV World Inc. of Nokomis	2110 N.W. Tanager Trail Nokomis, FL 34275	266-2152	Ruben Gerzany, owner	recreational vehicle dealer	5551	commercial	07/14/1998	DW, JP, RB	exempt	Blackburn Bay
167	Essex/Kokus Precision Components, Inc.	203 Galloway Rd. Sarasota, FL 34232	371-8950	Roland Luffeland, President	precision components mfg.	3545	light	07/16/1998	DW	light industrial facility exemption	Philippi Creek
150	Coach House Van Motor Homes, Inc.	2480 Technology Drive Nokomis, FL 34274	465-0984	Ruben Gerzany, owner	Recreational Vehicle Dealer	5561	commercial	07/20/1998	DW DB, DA	exempt	Shacket Creek
106-5	Environmental Products USA, Inc.	730 Commerce Ct., Venice, FL 34292	499-9101	Gage Karszen, Director	water purification systems	3589	light	07/27/1998	DW	light industrial facility exemption	Curry Creek - Blackburn Canal
34	ACE Asphalt Paving	Englewood, FL 34221 3995 E. Venice Ave. Venice, FL 34201	474-7785	Ken Buell, owner	asphalt coating	1611	commercial	08/05/1998	DW, JP, RB	exempt	Forced Creek
2-E	Phil W. Baker		461-6941	Phil W. Baker	millwork shop	3317	heavy	08/14/1998	DW	exempt	Myakka River
77	Nokomis Septic Tank (M) Main, Inc.	206 W. Albee Rd., Nokomis, FL 34275	464-9731	Gary Texas, President	septic tank systems mfg.	3272	heavy	08/17/1998	DW	undetermined at this time	Coastal Sarasota County North
60	Precision Fabrication Corp.	510 Church St., Nokomis, FL 34274-0500	465-1235	Christopher Van Hall	metal fabrication mfg.	3317	heavy	08/20/1998	DW	undetermined at this time	Curry Creek
60	Wood Wonders of Venice, Inc.	515 Colonial Ln., Units 5 & 7, Nokomis, FL 34275	462-4546	Robert M. Wightman Jr.	woodworking shop	2434	light	08/20/1998	DW	light industrial facility exemption	Curry Creek
104	Urethane Products, Inc.	3 James St., Venice, FL 34292	468-0212	Richard Spring	urethane foam mfg.	2621	heavy	08/20/1998	DW	undetermined at this time	Hatchell Green
115	Shade Systems, Inc.	576 S. River Rd. Englewood, FL 34223	475-8556	Michael G. Henderson	vinyl window treatment	2621	heavy	08/20/1998	DW	no longer in business	Anger Creek
60	Advanced Asphalt	405 Palm Avenue, Nokomis, FL 34274	465-5717 or 966-7206	Mr. Ha	asphalt coating	1611	commercial	09/14/1998	DW, RB	exempt	Curry Creek
115-77	Marble Booth & Srs.	956 Edin Rd., Sarasota, FL 34240	371-7211	Robert (JR) Gruszean	marble (cutured) mfg.	3281	heavy	12/15/1998	DW, LLA	undetermined at this time	Philippi Creek
20-4	Salleo Industries	203 Field End St. Sarasota, FL 34240	377-7717	Sanyarore Caputo Sr.	communications/ computer systems	3663	light	12/15/1998	BM	light industrial facility exemption	Philippi Creek
20-4	Medic Precision Instruments, Inc.	175 Sarasota Center Blvd. Sarasota, FL 34240 173 Big Pass Lane	371-1563	Janet Feltz	medical equipment	3841	light	12/15/1998	BM	light industrial facility exemption	Philippi Creek
322	Glassco, Inc.	Sarasota, FL 34242	249-0200	Grace C. Hicks	glass mfg.	N/A	N/A	12/15/1998	BM	exempt offer only	Siesta Key



Sarasota Bay / Myakka River Status and Trends Monitoring Water Quality Analyses

Station	Sample Depth	Time (EST)	Sample Number	Date (mm/dd/yy)	NH ₄ -N Diaa (mg/l)	NO ₃ -N Diaa (mg/l)	NO ₂ -N (mg/l)	TKN (mg/l)	Total N (mg/l)	PO ₄ -P Diaa (mg/l)	Total P (mg/l)	BOD ₅ (mg/l)	TSS (mg/l)	Turbidity (NTU)	Color Apparent (PCU)	Color pH (au)	Chl a Carr (mg/m3)	Phaeophytin a (mg/m3)	Salinity Field (PSU)
10-1	1.0M	1350	980179	2/24/98	0.005	0.005	0.005	0.26	0.26	0.011	0.10	1.8	24	16	18	8.11	6.5	5.5	32.3
10-2	MID	1420	980175	2/24/98	0.005	0.005	0.005	0.30	0.31	0.011	0.10	1.3	30	22	20	8.14	6.3	4.7	32.7
10-3	1.0M	1440	980178	2/24/98	0.005	0.005	0.005	0.29	0.29	0.012	0.10	1.4	29	23	20	8.14	6.2	3.8	33.1
10-3 REP	1.0M	1450	980184	2/24/98	0.005	0.005	0.005	0.30	0.30	0.017	0.10	1.6	27	22	20	8.17	5.9	4.4	NA
10-4	1.0M	1115	980181	2/24/98	0.014	0.006	0.005	0.24	0.24	0.013	0.10	1.2	24	15	15	8.13	6.1	5.0	32.7
10-5	MID	1140	980167	2/24/98	0.005	0.005	0.005	0.39	0.39	0.013	0.19	1.4	22	17	15	8.12	8.3	5.6	32.8
11-1	1.0M	1325	980177	2/24/98	0.005	0.005	0.005	0.30	0.30	0.010	0.10	1.4	15	5.8	15	8.17	4.7	4.3	30.9
11-2	1.0M	1300	980180	2/24/98	0.005	0.005	0.005	0.30	0.30	0.011	0.11	1.9	23	15	20	8.16	7.1	6.8	30.8
11-3	MID	1235	980185	2/24/98	0.005	0.005	0.005	0.35	0.35	0.016	0.21	1.9	24	17	15	8.16	8.5	7.0	31.2
11-4	MID	1205	980176	2/24/98	0.005	0.006	0.005	0.32	0.32	0.012	0.11	1.9	30	15	20	8.17	7.3	7.3	31.3
11-5	1.0M	1040	980186	2/24/98	0.005	0.006	0.006	0.32	0.33	0.018	0.14	1.6	22	13	25	8.12	9.8	9.6	28.9
13-1	MID	1345	980164	2/25/98	0.005	0.006	0.005	0.33	0.34	0.027	0.11	2.1	7	4.3	26	8.17	6.0	7.6	26.2
13-1 REP	MID	1357	980163	2/25/98	0.005	0.006	0.005	0.32	0.32	0.027	0.12	2.1	7	4.0	29	8.14	5.6	7.0	NA
13-2	MID	1322	980170	2/25/98	0.005	0.006	0.005	0.45	0.45	0.031	0.14	2.6	11	4.3	40	8.20	7.9	10.0	22.9
13-3	MID	1215	980171	2/25/98	0.005	0.008	0.009	0.30	0.31	0.049	0.17	2.5	11	5.5	47	8.09	12.2	10.0	20.8
13-4	1.0M	1236	980174	2/25/98	0.005	0.029	0.029	0.59	0.62	0.052	0.17	1.5	11	5.8	46	8.03	9.9	9.1	20.5
13-5	1.0M	1215	980172	2/25/98	0.006	0.034	0.033	0.52	0.55	0.056	0.17	1.8	11	6.2	48	8.02	10.2	9.5	19.0
14-1	MID	1200	980165	2/25/98	0.005	0.006	0.005	0.52	0.53	0.031	0.17	3.1	9	4.8	47	8.20	7.8	13.4	18.2
14-2	MID	1143	980173	2/25/98	0.005	0.006	0.005	0.58	0.58	0.016	0.15	2.8	12	5.7	60	8.31	3.3	14.5	15.6
14-3	MID	1124	980168	2/25/98	0.005	0.006	0.005	0.59	0.59	0.014	0.16	2.8	12	6.9	60	8.30	6.2	15.4	15.5
14-4	MID	1105	980169	2/25/98	0.005	0.007	0.005	0.64	0.64	0.014	0.15	3.9	11	6.1	65	8.28	5.9	16.2	15.1
14-5	MID	1045	980166	2/25/98	0.005	0.005	0.005	0.68	0.68	0.013	0.17	3.6	11	6.0	60	8.29	5.2	13.7	15.6

Sarasota Bay / Myakka River Status and Trends Monitoring Water Quality Analyses

Station	Sample Depth	Time (EST)	Sample Number	Date (mm/dd/yy)	NH ₄ -N Diss (mg/l)	NO ₃ -N Diss (mg/l)	NO ₂ -N (mg/l)	TKN (mg/l)	Total N (mg/l)	PO ₄ -P Diss (mg/l)	Total P (mg/l)	BOD ₅ (mg/l)	TSS (mg/l)	Turbidity (NTU)	Color Apparent (PCU)	Color pH (cu)	Chl a Conc (mg/m ³)	Phaeophytin a (mg/m ³)	Salinity Field (PSU)
16-1	MID	1340	980194	2/26/98	0.006	0.005	0.005	0.58	0.58	0.033	0.11	2.6	10	5.5	60	8.29	6.7	9.5	18.7
16-2	MID	1318	980190	2/26/98	0.006	0.005	0.005	0.45	0.45	0.034	0.09	1.6	12	7.8	55	8.11	8.2	6.3	22.9
16-3	1.0M	1257	980191	2/26/98	0.007	0.005	0.005	0.43	0.44	0.034	0.08	1.4	8	7.1	50	8.08	5.6	4.4	23.5
16-4	MID	1235	980187	2/26/98	0.005	0.007	0.007	0.23	0.24	0.020	0.05	0.7	11	9.8	13	8.07	5.5	2.2	33.6
16-5	1.0M	1220	980183	2/26/98	0.005	0.008	0.007	0.23	0.24	0.018	0.05	1.0	17	10	9	8.07	4.2	2.3	33.9
LB-1	MID	1133	980195	2/26/98	0.091	0.054	0.056	0.70	0.76	0.145	0.27	1.8	11	5.3	47	7.86	5.9	3.7	12.2
LB-2	MID	1115	980182	2/26/98	0.071	0.049	0.042	0.65	0.69	0.131	0.22	1.6	6	3.0	95	7.90	7.7	2.4	12.5
LB-3	MID	1100	980189	2/26/98	0.009	0.005	0.005	0.69	0.69	0.071	0.20	3.3	10	3.8	90	8.27	10.0	14.0	14.2
LB-4	MID	1045	980192	2/26/98	0.007	0.005	0.005	0.63	0.63	0.016	0.15	4.4	9	3.4	65	8.44	4.7	10.3	17.2
LB-5	MID	1010	980188	2/26/98	0.011	0.008	0.005	0.59	0.59	0.012	0.10	3.7	8	3.3	55	8.42	4.2	6.5	20.0
LB-5 REP	MID	1020	980193	2/26/98	0.007	0.005	0.005	0.59	0.59	0.012	0.11	3.6	9	3.6	60	8.40	4.9	6.2	NA
ML-1	MID	1318	980196	2/24/98	0.015	0.045	0.044	0.58	0.62	0.242	0.31	1.4	2	1.5	180	6.85	1.1	1.0	0.05
ML-1 REP	MID	1340	980199	2/24/98	0.010	0.046	0.045	0.61	0.66	0.260	0.32	1.6	2	1.7	180	6.93	1.4	0.9	NA
ML-2	MID	1235	980201	2/24/98	0.021	0.037	0.036	0.66	0.70	0.242	0.30	1.5	3	1.9	160	6.90	1.1	1.5	0.19
ML-3	MID	1204	980200	2/24/98	0.026	0.039	0.037	0.65	0.69	0.245	0.31	1.3	2	2.2	160	6.98	1.0	1.7	0.22
ML-4	MID	1126	980197	2/24/98	0.024	0.039	0.040	0.65	0.69	0.242	0.30	1.4	3	1.8	160	6.89	1.4	1.3	0.13
ML-5	MID	1045	980205	2/24/98	0.040	0.043	0.039	0.61	0.65	0.245	0.30	1.3	3	2.1	180	7.03	1.1	1.2	0.13
MU-1	1.0M	1638	980198	2/24/98	0.015	0.049	0.052	0.59	0.64	0.283	0.34	1.4	U2	1.5	180	6.79	1.2	0.5	0.04
MU-2	1.0M	1613	980206	2/24/98	0.020	0.050	0.048	0.60	0.65	0.276	0.33	1.3	U2	1.3	180	6.84	1.1	0.9	0.04
MU-3	1.0M	1523	980202	2/24/98	0.017	0.046	0.045	0.64	0.69	0.280	0.34	1.4	U2	1.4	140	6.85	1.2	0.6	0.05
MU-4	MID	1451	980204	2/24/98	0.014	0.043	0.040	0.60	0.64	0.261	0.30	1.4	U2	1.2	160	7.03	1.2	0.6	0.06
MU-5	MID	1405	980201	2/24/98	0.015	0.045	0.042	0.62	0.66	0.258	0.31	1.6	U2	1.6	170	7.16	1.4	1.5	0.05
EQP BLK		1640	980208	2/24/98	0.005	0.005	0.005	0.05	0.05	0.005	0.05	0.05	U2	0.05	U1	5.92	0.5	0.5	NA
EQP BLK		0845	980207	2/24/98	0.005	0.005	0.005	0.05	0.05	0.005	0.05	0.05	U2	0.05	U1	6.07	0.5	0.5	NA

Sarasota Bay / Myakka River Status and Trends Monitoring Weather Conditions during Samplings

Date (mmddyy)	Run	Segment	Time of Sampling		Rain Intensity		Cloud Cover		Air Temperature (Deg C)	Wind Direction (DegM)	Wind Velocity (mph)	Wave Height (ft)	
			Begin (EST)	End (EST)	Min	Max	Min	Max (%)					
022498	AM	10	0625	0817	0		0		19	310 - 320	25 - 30	1.0 -	3.0
022498	PM	10	1116	1450	0		0		16	310 - 350	15 - 25	1.0 -	2.0
022498	AM	11	0717	0834	0		0		19	310 - 315	25 - 30	1.0 -	3.0
022498	PM	11	1043	1329	0		0		16	310 - 310	25 - 25	1.0 -	3.0
022498	AM	ML	0643	0744	0		0		15	-	<5	<0.5	
022498	PM	ML	1112	1328	0		0		23	340 - 340	<5 - 10	<0.5	
022498	AM	MU	0755	0847	0		0		17	-	<5	<0.5	
022498	PM	MU	1418	1647	0		0		23	000 - 000	<5 - 10	<0.5	
022598	AM	13	0604	0712	0		0		17	-	<5	<0.5	
022598	PM	13	1221	1351	0		0		19	90 - 90	<5 - 5	<0.5 -	0.5
022598	AM	14	0719	0806	0		0		17	-	<5	<0.5	
022598	PM	14	1051	1206	0		0		19	90 - 90	5 - 5	<0.5 -	0.5
022698	AM	16	0604	0656	0		0 - 60		18	-	<5	<0.5	
022698	PM	16	1223	1343	0		0		20	140 - 140	10 - 15	<0.5 -	0.5
022698	AM	LB	0735	0827	0		0 - 20		18	90 - 120	<5 - 15	<0.5 -	0.5
022698	PM	LB	1026	1135	0		0 - 5		20	140 - 140	10 - 15	<0.5 -	0.5

Sarasota Bay / Myakka River Status and Trends Monitoring Station Locations and Water Clarity

Station	Date	Time	Ideal Station Location	Actual Station Location	Depth	Secchi	Water	Attenuation
			Latitude	Longitude	Latitude	Longitude	Depth	Quality
	(mmddyy)	(EST)	(degrees)	(degrees)	(degrees)	(degrees)	(m)	Sample
								Coefficient
								(m ⁻¹)
10-1	022498	0705	27.35361	-82.57389	27.35339	-82.57372	2.5	
10-1	022498	1357	27.35361	-82.57389	27.35372	-82.57347	3.0	0.7 980179
10-2	022498	0652	27.34111	-82.56667	27.34136	-82.56594	2.1	
10-2	022498	1426	27.34111	-82.56667	27.34133	-82.56667	0.9	0.6 980175
10-3	022498	0625	27.33389	-82.58056	27.33392	-82.57939	3.1	
10-3	022498	1450	27.33389	-82.58056	27.33383	-82.57981	4.2	0.5 980178
10-4	022498	0817	27.31000	-82.56417	27.30967	-82.56408	4.8	
10-4	022498	1116	27.31000	-82.56417	27.31000	-82.56436	4.9	0.6 980181
10-5	022498	0805	27.30722	-82.55556	27.30775	-82.55583	1.5	
10-5	022498	1140	27.30722	-82.55556	27.30775	-82.55583	1.7	0.6 980167
11-1	022498	0717	27.36806	-82.56556	27.36789	-82.56600	2.7	
11-1	022498	1329	27.36806	-82.56556	27.36819	-82.56508	2.7	1.3 980177
11-2	022498	0728	27.34722	-82.55639	27.34733	-82.55642	2.7	
11-2	022498	1308	27.34722	-82.55639	27.34639	-82.55567	2.8	0.6 980180
11-3	022498	0739	27.33583	-82.55639	27.33589	-82.55614	1.5	
11-3	022498	1239	27.33583	-82.55639	27.33492	-82.55636	1.9	0.6 980185
11-4	022498	0750	27.32306	-82.54972	27.32261	-82.54917	1.0	
11-4	022498	1210	27.32306	-82.54972	27.32303	-82.54956	1.3	0.6 980176
11-5	022498	0834	27.31250	-82.54194	27.31353	-82.54208	2.1	
11-5	022498	1043	27.31250	-82.54194	27.31258	-82.54189	2.2	0.8 980186
ML-1	022498	0744	27.04028	-82.28778	27.04020	-82.28613	1.1	
ML-1	022498	1328	27.04028	-82.28778	27.04032	-82.28738	1.9	1.0 980196
ML-2	022498	0727	27.03111	-82.27389	27.03083	-82.27367	0.7	
ML-2	022498	1248	27.03111	-82.27389	27.03052	-82.27292	0.8	> B 980203
ML-3	022498	0721	27.03167	-82.27333	27.03102	-82.27293	1.0	
ML-3	022498	1217	27.03167	-82.27333	27.03075	-82.27320	0.8	> B 980200
ML-4	022498	0700	27.01556	-82.27222	27.01610	-82.27217	0.7	
ML-4	022498	1149	27.01556	-82.27222	27.01617	-82.27207	1.2	0.8 980197
ML-5	022498	0643	27.00472	-82.26306	27.00362	-82.25845	0.4	
ML-5	022498	1112	27.00472	-82.26306	27.00458	-82.25837	1.3	0.5 980205
MU-1	022498	0900	27.09250	-82.32861	27.09308	-82.32697	3.7	
MU-1	022498	1647	27.09250	-82.32861	27.09290	-82.32755	3.7	-9.0 980198
MU-2	022498	0847	27.08806	-82.32611	27.08663	-82.32522	3.2	
MU-2	022498	1624	27.08806	-82.32611	27.08782	-82.32825	2.0	-9.0 980206
MU-3	022498	0822	27.06694	-82.31278	27.06628	-82.31368	2.0	
MU-3	022498	1536	27.06694	-82.31278	27.06733	-82.31333	2.3	0.9 980202
MU-4	022498	0812	27.06056	-82.30889	27.06073	-82.30818	1.2	
MU-4	022498	1459	27.06056	-82.30889	27.06078	-82.30825	1.0	1.0 980204
MU-5	022498	0755	27.04583	-82.29417	27.04597	-82.29392	1.7	
MU-5	022498	1418	27.04583	-82.29417	27.04545	-82.29365	1.8	0.8 980201

Sarasota Bay / Myakka River Status and Trends Monitoring Station Locations and Water Clarity

Station	Date	Time	Ideal Station Location		Actual Station Location		Depth	Secchi	Water	Attenuation
			Latitude	Longitude	Latitude	Longitude	Overall	Depth	Quality	Coefficient
	(mmddyy)	(EST)	(degrees)	(degrees)	(degrees)	(degrees)	(m)	(m)	Sample	(m ⁻¹)
13-1	022598	0604	27.29444	-82.55083	27.29303	-82.54958	0.9			
13-1	022598	1351	27.29444	-82.55083	27.29403	-82.54981	1.6	1.3	980164	1.05
13-2	022598	0621	27.28417	-82.54722	27.28372	-82.54694	1.1			
13-2	022598	1329	27.28417	-82.54722	27.28450	-82.54661	1.5	1.0	980170	1.13
13-3	022598	0649	27.26222	-82.53667	27.26236	-82.53633	0.8			
13-3	022598	1305	27.26222	-82.53667	27.26256	-82.53717	1.1	1.0	980171	1.50
13-4	022598	0703	27.25500	-82.53361	27.25553	-82.53303	1.5			
13-4	022598	1241	27.25500	-82.53361	27.25550	-82.53272	2.3	1.0	980174	1.53
13-5	022598	0712	27.24806	-82.52472	27.24822	-82.52511	1.8			
13-5	022598	1221	27.24806	-82.52472	27.24756	-82.52489	2.0	1.1	980172	1.52
14-1	022598	0719	27.23556	-82.51528	27.23547	-82.51569	2.0			
14-1	022598	1206	27.23556	-82.51528	27.23581	-82.51528	1.9	0.9	980165	1.45
14-2	022598	0728	27.22556	-82.51472	27.22611	-82.51436	1.3			
14-2	022598	1150	27.22556	-82.51472	27.22647	-82.51492	1.3	0.8	980173	1.79
14-3	022598	0738	27.21639	-82.50444	27.21611	-82.50447	1.5			
14-3	022598	1132	27.21639	-82.50444	27.21625	-82.50400	1.7	0.6	980168	1.96
14-4	022598	0747	27.19417	-82.50194	27.19422	-82.50214	0.8			
14-4	022598	1112	27.19417	-82.50194	27.19453	-82.50181	0.9	0.8	980169	1.77
14-5	022598	0806	27.18583	-82.49917	27.18578	-82.49872	0.9			
14-5	022598	1051	27.18583	-82.49917	27.18558	-82.49875	1.0	0.8	980166	2.00
16-1	022698	0604	27.16917	-82.49139	27.16994	-82.49142	0.8			
16-1	022698	1343	27.16917	-82.49139	27.16978	-82.49136	1.0	>B	980194	1.81
16-2	022698	0629	27.16028	-82.48667	27.16056	-82.48567	0.4			
16-2	022698	1321	27.16028	-82.48667	27.16056	-82.48536	1.1	0.8	980190	1.48
16-3	022698	0638	27.15250	-82.48167	27.15289	-82.48111	1.7			
16-3	022698	1300	27.15250	-82.48167	27.15297	-82.48083	2.0	0.9	980191	1.47
16-4	022698	0645	27.14389	-82.47167	27.14369	-82.47158	0.8			
16-4	022698	1244	27.14389	-82.47167	27.14425	-82.47175	1.6	1.1	980187	0.94
16-5	022698	0656	27.13333	-82.46917	27.13361	-82.46914	1.6			
16-5	022698	1223	27.13333	-82.46917	27.13356	-82.46900	2.0	1.1	980183	1.06
1B-1	022698	0735	27.04333	-82.43417	27.04536	-82.43367	0.7			
1B-1	022698	1135	27.04333	-82.43417	27.04517	-82.43333	0.9	>B	980195	2.55
1B-2	022698	0749	27.02389	-82.41972	27.02406	-82.42000	0.9			
1B-2	022698	1117	27.02389	-82.41972	27.02422	-82.41908	0.9	>B	980182	2.27
1B-3	022698	0803	26.99167	-82.39833	26.99186	-82.39833	0.9			
1B-3	022698	1102	26.99167	-82.39833	26.99142	-82.39769	1.2	0.9	980189	1.98
1B-4	022698	0814	26.96972	-82.38611	26.97047	-82.38569	1.4			
1B-4	022698	1042	26.96972	-82.38611	26.96917	-82.38622	1.4	1.1	980192	1.46
1B-5	022698	0827	26.96083	-82.37444	26.96089	-82.37394	1.4			
1B-5	022698	1026	26.96083	-82.37444	26.96142	-82.37375	1.4	>B	980188	1.46

Hydrolab DS3 Continuous Deployment at Station 11-5
February 24-25, 1998
Mote Marine Laboratory

Station	Date	Time	Temp	pH	SpCond	Salinity	D.O. Percent Saturation	Dissolved Oxygen
	(mmddyy)	(EST)	(Deg C)	(SU)	(mmhos)	(PSU)	(%)	(mg/l)
11-5	022498	0930	17.97	8.12	45.6	29.6	81.6	6.44
11-5	022498	0945	18.01	8.14	45.2	29.3	82.1	6.49
11-5	022498	1000	18.05	8.15	44.9	29.1	82.9	6.55
11-5	022498	1015	18.07	8.17	44.4	28.7	82.0	6.49
11-5	022498	1030	18.16	8.14	45.3	29.4	78.8	6.20
11-5	022498	1045	18.28	8.15	45.8	29.8	81.5	6.38
11-5	022498	1100	18.35	8.17	45.9	29.8	84.3	6.60
11-5	022498	1115	18.40	8.17	45.9	29.8	83.6	6.53
11-5	022498	1130	18.35	8.17	45.9	29.8	83.7	6.55
11-5	022498	1145	18.47	8.18	45.9	29.8	83.5	6.52
11-5	022498	1200	18.43	8.18	46.0	29.9	83.5	6.52
11-5	022498	1215	18.62	8.20	45.8	29.8	85.4	6.64
11-5	022498	1230	18.56	8.20	45.8	29.7	89.9	7.01
11-5	022498	1245	18.76	8.21	45.8	29.8	88.3	6.85
11-5	022498	1300	18.83	8.22	45.8	29.7	86.9	6.74
11-5	022498	1315	18.89	8.22	45.7	29.7	86.0	6.66
11-5	022498	1330	18.86	8.24	45.4	29.4	90.4	7.01
11-5	022498	1345	18.97	8.23	45.7	29.7	87.4	6.76
11-5	022498	1400	19.03	8.23	45.8	29.8	85.6	6.61
11-5	022498	1415	19.08	8.23	46.0	29.9	87.0	6.70
11-5	022498	1430	19.14	8.23	46.1	30.0	87.2	6.71
11-5	022498	1445	19.17	8.23	46.1	30.0	84.0	6.46
11-5	022498	1500	19.17	8.23	46.0	29.9	85.5	6.58
11-5	022498	1515	19.16	8.23	45.9	29.8	86.0	6.62
11-5	022498	1530	19.17	8.23	45.8	29.8	85.0	6.54
11-5	022498	1545	19.18	8.23	45.8	29.8	86.8	6.68
11-5	022498	1600	19.22	8.24	45.9	29.8	87.0	6.69
11-5	022498	1615	19.24	8.24	45.8	29.8	85.8	6.60
11-5	022498	1630	19.24	8.24	45.8	29.8	83.4	6.41
11-5	022498	1645	19.24	8.24	45.7	29.7	84.9	6.54
11-5	022498	1700	19.25	8.24	45.7	29.7	81.3	6.26
11-5	022498	1715	19.24	8.23	45.6	29.6	79.1	6.08
11-5	022498	1730	19.24	8.24	45.6	29.6	81.6	6.28
11-5	022498	1745	19.24	8.25	45.6	29.6	81.3	6.26

Hydrolab DS3 Continuous Deployment at Station 11-5
February 24-25, 1998
Mote Marine Laboratory

Station	Date	Time	Temp	pH	SpCond	Salinity	D.O. Percent Saturation	Dissolved Oxygen
	(mmddyy)	(EST)	(Deg C)	(SU)	(mmhos)	(PSU)	(%)	(mg/l)
11-5	022498	1800	19.22	8.24	45.5	29.5	82.7	6.37
11-5	022498	1815	19.15	8.25	45.5	29.5	79.2	6.11
11-5	022498	1830	19.18	8.26	45.4	29.4	77.9	6.01
11-5	022498	1845	19.11	8.27	45.4	29.4	89.2	6.89
11-5	022498	1900	19.17	8.27	45.4	29.4	82.5	6.36
11-5	022498	1915	19.25	8.18	46.1	29.9	73.9	5.67
11-5	022498	1930	19.28	8.26	46.4	30.2	86.6	6.64
11-5	022498	1945	19.22	8.26	46.4	30.2	79.7	6.11
11-5	022498	2000	19.20	8.26	46.4	30.2	80.3	6.16
11-5	022498	2015	19.17	8.25	46.5	30.2	79.0	6.06
11-5	022498	2030	19.19	8.24	46.6	30.3	77.5	5.95
11-5	022498	2045	19.17	8.22	46.8	30.5	77.2	5.92
11-5	022498	2100	19.06	8.22	47.2	30.7	77.5	5.94
11-5	022498	2115	18.84	8.22	47.6	31.1	80.6	6.20
11-5	022498	2130	18.79	8.20	48.5	31.7	77.4	5.93
11-5	022498	2145	18.70	8.20	49.0	32.1	79.1	6.06
11-5	022498	2200	18.60	8.19	49.2	32.2	80.8	6.20
11-5	022498	2215	18.54	8.18	49.3	32.3	79.0	6.07
11-5	022498	2230	18.50	8.18	49.4	32.4	79.9	6.13
11-5	022498	2245	18.41	8.17	49.8	32.7	72.8	5.59
11-5	022498	2300	18.33	8.17	49.9	32.7	74.8	5.75
11-5	022498	2315	18.28	8.16	49.9	32.7	72.9	5.61
11-5	022498	2330	18.24	8.16	49.9	32.7	73.9	5.69
11-5	022498	2345	18.26	8.16	49.8	32.7	74.7	5.75
11-5	022598	0000	18.24	8.16	49.8	32.7	67.9	5.23
11-5	022598	0015	18.21	8.16	49.9	32.7	67.8	5.23
11-5	022598	0030	18.18	8.16	50.0	32.8	70.6	5.44
11-5	022598	0045	18.18	8.15	49.9	32.8	68.3	5.27
11-5	022598	0100	18.16	8.15	49.9	32.8	75.6	5.83
11-5	022598	0115	18.19	8.15	49.9	32.7	72.2	5.57
11-5	022598	0130	18.21	8.15	49.9	32.7	73.0	5.63
11-5	022598	0145	18.19	8.15	49.9	32.7	72.0	5.55
11-5	022598	0200	18.21	8.14	49.8	32.7	66.9	5.15
11-5	022598	0215	18.18	8.14	49.9	32.7	67.5	5.20
11-5	022598	0230	18.18	8.14	50.0	32.8	61.2	4.72

Hydrolab DS3 Continuous Deployment at Station 11-5
February 24-25, 1998
Mote Marine Laboratory

Station	Date	Time	Temp	pH	SpCond	Salinity	D.O. Percent Saturation	Dissolved Oxygen
	(mmddyy)	(EST)	(Deg C)	(SU)	(mmhos)	(PSU)	(%)	(mg/l)
11-5	022598	0245	18.16	8.14	50.0	32.8	58.8	4.53
11-5	022598	0300	18.19	8.13	50.0	32.8	54.0	4.16
11-5	022598	0315	18.21	8.13	50.0	32.8	53.7	4.13
11-5	022598	0330	18.24	8.13	49.9	32.7	54.2	4.18
11-5	022598	0345	18.28	8.13	49.8	32.7	51.9	4.00
11-5	022598	0400	18.31	8.12	49.8	32.7	53.6	4.12
11-5	022598	0415	18.31	8.13	49.8	32.7	51.4	3.96
11-5	022598	0430	18.31	8.12	49.8	32.7	60.8	4.67
11-5	022598	0445	18.31	8.12	49.8	32.7	54.8	4.22
11-5	022598	0500	18.31	8.12	49.8	32.7	54.3	4.18
11-5	022598	0515	18.31	8.12	49.8	32.7	60.1	4.63
11-5	022598	0530	18.33	8.11	49.8	32.7	60.0	4.62
11-5	022598	0545	18.31	8.11	49.8	32.7	61.4	4.72
11-5	022598	0600	18.29	8.10	49.8	32.7	57.5	4.42
11-5	022598	0615	18.31	8.10	49.8	32.7	51.9	3.99
11-5	022598	0630	18.31	8.10	49.8	32.7	59.2	4.55
11-5	022598	0645	18.33	8.10	49.8	32.7	51.2	3.94
11-5	022598	0700	18.33	8.11	49.7	32.6	51.0	3.92
11-5	022598	0715	18.36	8.11	49.6	32.6	58.7	4.51
11-5	022598	0730	18.36	8.12	49.6	32.6	52.3	4.02
11-5	022598	0745	18.38	8.11	49.6	32.5	50.6	3.89
11-5	022598	0800	18.38	8.11	49.6	32.5	48.5	3.73
11-5	022598	0815	18.40	8.10	49.6	32.5	58.5	4.50
11-5	022598	0830	18.40	8.10	49.5	32.5	53.7	4.13
11-5	022598	0845	18.41	8.09	49.4	32.4	56.1	4.31
11-5	022598	0900	18.41	8.10	49.4	32.4	60.2	4.63
11-5	022598	0915	18.41	8.10	49.4	32.4	60.2	4.63



**SURFACE WATER AND SEDIMENT
SAMPLE COLLECTION AND ANALYSIS
FOR
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PHILLIPPI CREEK BASINS,
SARASOTA COUNTY, FLORIDA"**



Ardaman & Associates, Inc.

OFFICES

Orlando, 8008 S. Orange Avenue, Orlando, Florida 32809, Phone (407) 855-3860

Bartow, 1525 Centennial Drive, Bartow, Florida 33830, Phone (941) 533-0858

Cocoa, 1300 N. Cocoa Blvd., Cocoa, Florida 32922, Phone (407) 632-2503

Fort Lauderdale, 3665 Park Central Boulevard North, Pompano Beach, Florida 33064, Phone (954) 969-8788

Fort Myers, 9970 Bavaria Road, Fort Myers, Florida 33913, Phone (941) 768-6600

Miami, 2608 W. 84th Street, Hialeah, Florida 33016, Phone (305) 825-2683

Port Charlotte, 740 Tamiami Trail, Unit 3, Port Charlotte, Florida 33954, Phone (941) 624-3393

Port St. Lucie, 1017 S.E. Holbrook Ct., Port St. Lucie, Florida 34952, Phone (561) 337-1200

Sarasota, 2500 Bee Ridge Road, Sarasota, Florida 34239, Phone (941) 922-3526

Tallahassee, 3175 West Tharpe Street, Tallahassee, Florida 32303, Phone (850) 576-6131

Tampa, 1406 Tech Boulevard, Tampa, Florida 33619, Phone (813) 620-3389

West Palm Beach, 2511 Westgate Avenue, Suite 10, West Palm Beach, Florida 33409, Phone (561) 687-8200

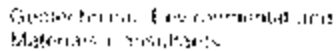
MEMBERS:

A S F E

American Concrete Institute

American Society for Testing and Materials

Florida Institute of Consulting Engineers



Port Charlotte, Florida on May 15, 1998. A copy of the field sampling notes and chain-of-custody forms for the May 14th sample event are included in Appendix I. The results of the sieve analysis and grain size distribution curves for the particle size distribution analysis conducted by Ardaman & Associates, Inc. soils lab is included in Appendix II.

As part of the work assignment, surface water sampling was also conducted in Big Slough, Phillippi Creek and Hudson Bayou. The six (6) sample locations are consistent with the six (6) sediment sampling locations conducted in December 30th and 31st of 1997 by Ardaman & Associates, Inc. Specifically, Location No. 1 was within Phillippi Creek at Coburn Road, approximately 50 feet above the weir. Location No. 2 was in Phillippi Creek 50 feet south of the Bahia Vista bridge. Location 3 was in Hudson Bayou at the Osprey Avenue bridge. Location 4 was in Hudson Bayou at the Orange Avenue bridge. Location 5 was in Myakkahatchee Creek 100 feet north of the I-75 bridge and Location No. 6 was within Myakkahatchee Creek approximately 100 yards north of the dam adjacent to the North Port water plant.

Prior to sample collection, the surface water at each location was tested for temperature, pH and conductivity. The water quality parameters for the six (6) locations are shown in Table 1, which also includes dissolved oxygen, which was determined on a subsequent visit on May 21 and 22. Water samples were then collected at approximately mid-depth at each location and placed directly into the laboratory supplied containers. The containers were capped, labeled and then packed on ice for transport to EQL Labs in Port Charlotte. When the containers were delivered to EQL Labs, a labeling discrepancy was called to the attention of the EQL receiving clerk. The bottle numbers were inconsistent with the location at the Bahia Vista/Phillippi Creek sample area. A copy of the field sampling notes and chain-of-custody form for the May 15 sampling event of the surface waters within Phillippi Creek, Hudson Bayou and Big Slough are included in Appendix III.

Macroinvertebrate analysis was also conducted at the six (6) above referenced sites. The macroinvertebrate sampling and analysis was conducted by CCI Environmental Services, Inc. on May 21 and 22, 1998. Qualitative dip net sampling was performed at the fresh water sites, which include Stations 1 and 2 in Phillippi Creek and Stations 5 and 6 in the Myakkahatchee Creek (Big Slough). Petite Ponar sampling of the substratum was performed in the brackish water sites, 3 and 4, located in Hudson Bayou. The sampling procedures and analysis as conducted by CCI Environmental Services are explained in detail in the CCI report included in Appendix IV.

Sarasota County Government
File No. 97-8710
September 15, 1998

3

It has been a pleasure to be of assistance to you with this second stage of the basin monitoring and analysis program. The only exercise remaining under the Work Assignment 98-2 is specific to Item 4 and is associated with surface water sample collection from automatic samplers within the Hudson Bayou basin. Please contact our office in order to schedule this last phase of the sampling program.

Very truly yours,

Ardaman & Associates, Inc.



Ashby Hoover, P.E.
Project Engineer
Eng. Reg. No. 49942



Gary H. Schmidt, P.E.
Vice President
Eng. Reg. No. 12305

AH/GHS:nh



Ardaman & Associates, Inc.

TABLE 1

WATER QUALITY PARAMETERS

LOCATION	TEMP °C	pH	COND.	DO
1	27.5	7.07	672 μ S	4.6 mg/L
2	26.0	7.17	804 μ S	8.18 mg/L
3	28.3	7.53	59.8 mS	4.76 mg/L
4	25.7	8.33	60.2 mS	6.86 mg/L
5	25.7	7.13	860 μ S	10.46 mg/L
6	26.6	7.18	778 μ S	11.12 mg/L



APPENDIX I

H-5 is in waterway
3rd marker north of main
Hudson just west of Bay
Sit low Depth of water 3'.
Sediment to -6.5 (3.5 depth)
highly organic. Very little
perceptive tidal flow.
Slight breeze to north.
Sampled 13:02

H-2 Just at NW corner
of Bayou Retirement Center
Concrete wall to land on land.
to west, marker at
1 foot in water
on east side.
2.5' deep Sand
fact day.

Probed solid. Marine
sand, consolidated & rigid.
Sampled at 13:19

H-4 Just west of bridge.
Ave. Bayou. Water depth
7'. Depth of sediment
1.5-2'. Organic, shell & sand.
Duplicate sample submitted.
Slight incoming tide & east
wind. Sampled. 14:02.

H-1 Water 9'. Depth of
soft sediment 1.0-1.5'.
Sample taken in center of
Bayou behind house at
Sample's
6.1 ft. Sand w/ shell. Sampled
at 14:23. end of day.

5/14/95

H-10

Behind house at 2440 Arlington
Street. Stream was less than 3' wide
and 4" deep flowing east.
Sample taken just down stream
of intersecting concrete culvert. No
fine sediment above sand to grade
at. Sampled H-10 at 09:45

H-11 in front of 2604 Euclid

Ditch bottom is a 8.0' below
grade. Stream is a 9.0' wide.
3" of standing H₂O flowing
in a southerly direction.
Essentially no sediment on
the sandy bottom. (sample 1)
@ 10:31

H-12 Behind 2679 N. 9th St

Place. Ditch bottom is 7' 9.5'
below grade. Water very low
flow to west. Stream is 7'
wide & 2-3' deep. Sampled
point, sampled 4:12 @ 10:10
FINE SLIGHTLY SILTY SAND.

H-9 - MANROVES, AT THE CURVE
IN FRONT OF BUILDING 4, S.H.S. STREAM
FLOW VERY SLIGHT TO NORTH. Bottom
is mangrove buds covered w/ leaves
decayed on bottom. Bottom is very
soft. Least 10" of sand.
Sampled 10:58.

H-8 Sampled @ 11:15.
Sample taken below dam
just west of Building #4 at
SHS. Stream turns west just in
Mangroves north of dam.
Flap is north. Strong organic
odor. Sample taken off sand
bar in 2' of water. Sand 2)
organic.

H-6 Just downstream (west)
of concrete culvert. Whit. goss.
mud at west end of pond.
Swains adjacent to pool at Bldg
835 borders at Central Park.
Sampled @ 11:44.



Sand w/ shell and a substantial
organic part. Mostly detrital
fine silt.

H-7 Just west (50') of US 41
Bridge at Alta Vista & Brown. Access
from Brown Rd. Mangroves on
north side. Rip rap adjacent to
adjacent center on south.
Water 5.5' deep. Solid bottom
in mud sand, silt in red w/ green.
Sampled 12:15.

H-3 Just west (50') of
Osprey Avenue Bridge. Slight mud
(east) tide & breeze. Water
depth is 7'. Sediment tight
about 4"-5" thin clay.
Sampled 12:48.

Environmental Quality Laboratory, Inc.
1009 Tamiami Trail Port Charlotte, FL 33953



Phone (941) 625-3137
Fax (941) 629-7467

Sample Information

P/O #

Analysis Request

page 1 of 1

Client: Sarasota Co.	☐ new	Phone:																		
Project: Hudson Bayou - sedS		FAX:																		
Labid: 98/1399/5205		HRS Form?																		
Address:		☐ Yes ☒ No																		

EQC Sample No.	Sample Description	Collection Date	Collection Time	Preserved	Minerals	Nutrients	NO2/O.P.	Metals	Bacteria	cBOD/TSS	TOC-S	# of Containers
6415	H-1	5/14/98	14:23			JAR		JAR			JAR	3
6416	H-2		13:19									W
6417	H-3		12:48									W
6418	H-4		14:02									W
6419	H-5		13:02									W
6420	H-6		11:44									W
6421	H-7		12:15									W
6422	H-8		11:13									W
6423	H-9		10:58									W
6424	H-10		09:45									W
6425	H-11		10:31									W
6426	H-12		10:10									W
6427	DUP											W

Comments: **Adamu & Assoc. collecting project for Sarasota Co.**

Chain of Custody

Total # of Containers - **39**

Transfer	Released by:	Date	Time	Received by:
1st	CASH (Sample collector)			
2nd				
3rd				
4th				
5th				

EQ

Fax (941) 629-7467

210 #

page / of /

[illegible]

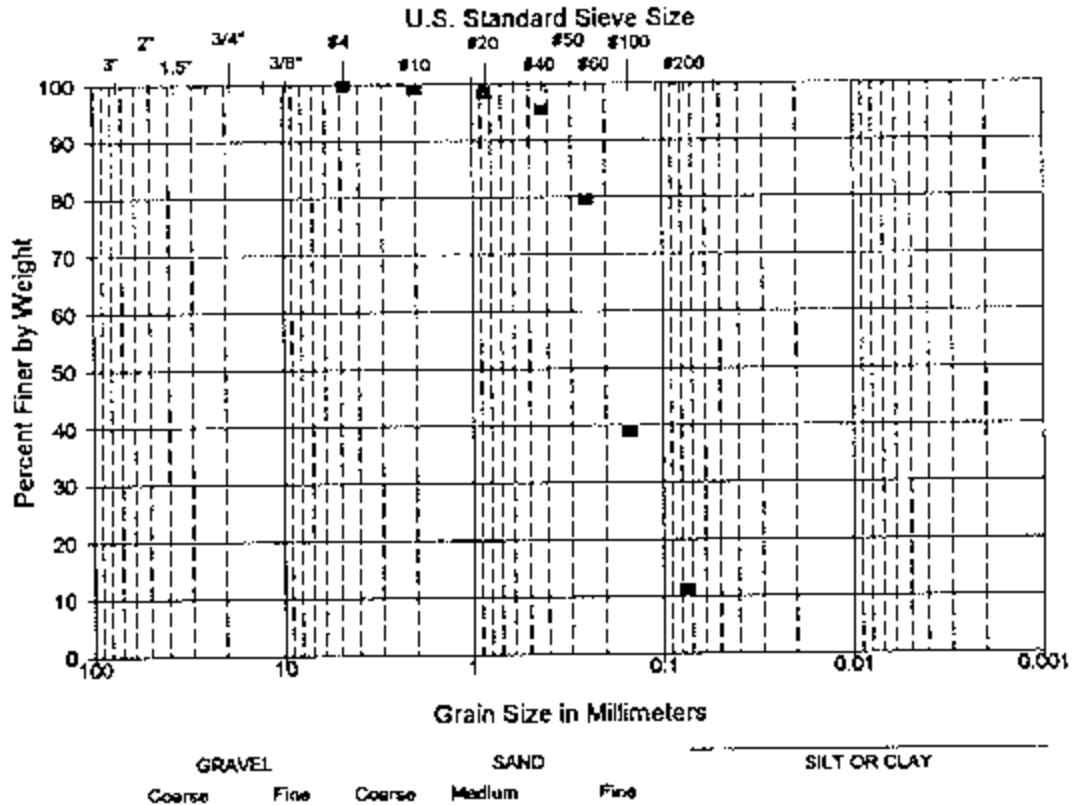
Chain of Custody

Total # of Containers:

Transfer	Released by:	Date	Time	Received by
1st	<i>[Signature]</i> (Sample collector)	5/15/90	13.34	<i>[Signature]</i>
2nd				
3rd				
4th				
5th				

APPENDIX II

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	
No. 4	99.8
No. 10	99.0
No. 20	98.4
No. 40	95.5
No. 60	79.6
No. 100	38.8
No. 200	11.1

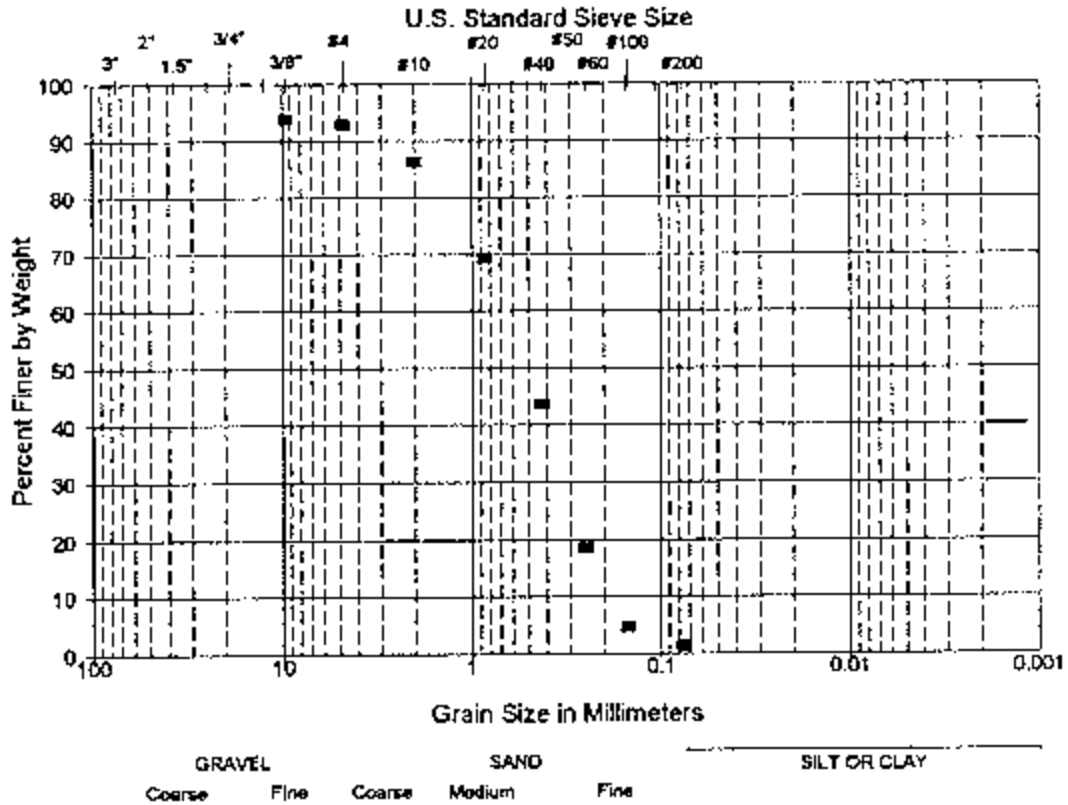
SAMPLE DATA:

Boring No.:	H-1
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	93.8
No. 4	92.8
No. 10	86.2
No. 20	69.4
No. 40	43.7
No. 60	18.6
No. 100	4.8
No. 200	1.4

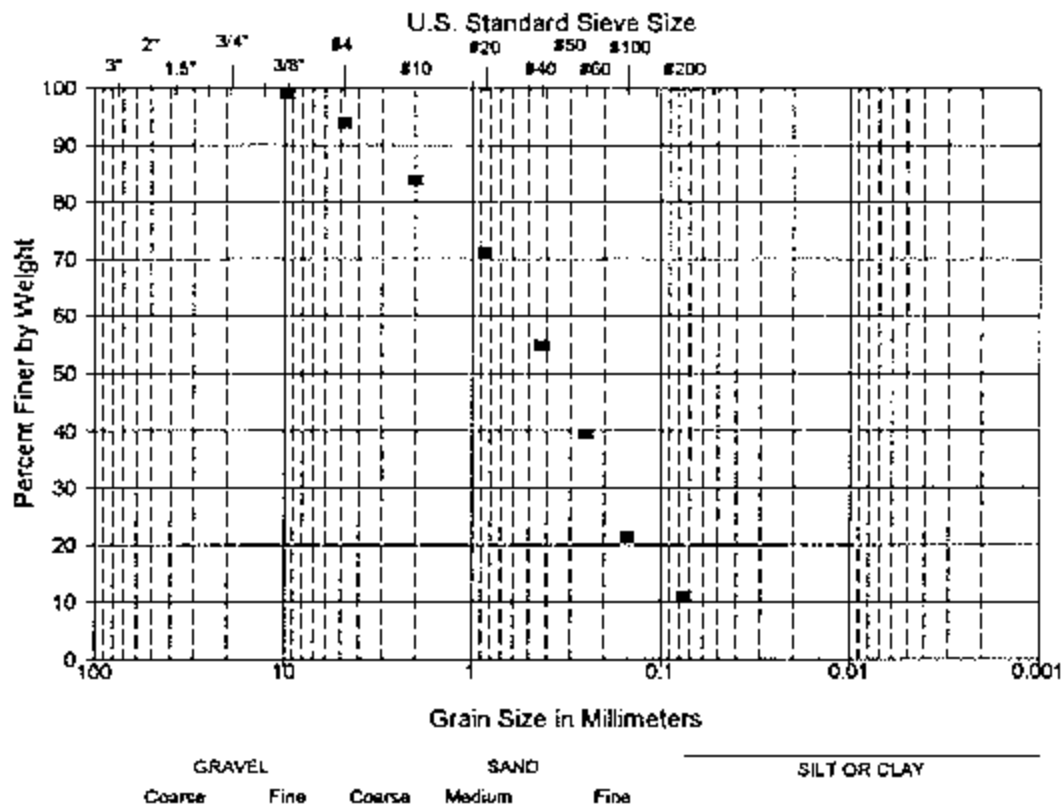
SAMPLE DATA:

Boring No.:	H-2
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	99.0
No. 4	93.8
No. 10	83.8
No. 20	71.2
No. 40	54.8
No. 60	39.4
No. 100	21.4
No. 200	11.0

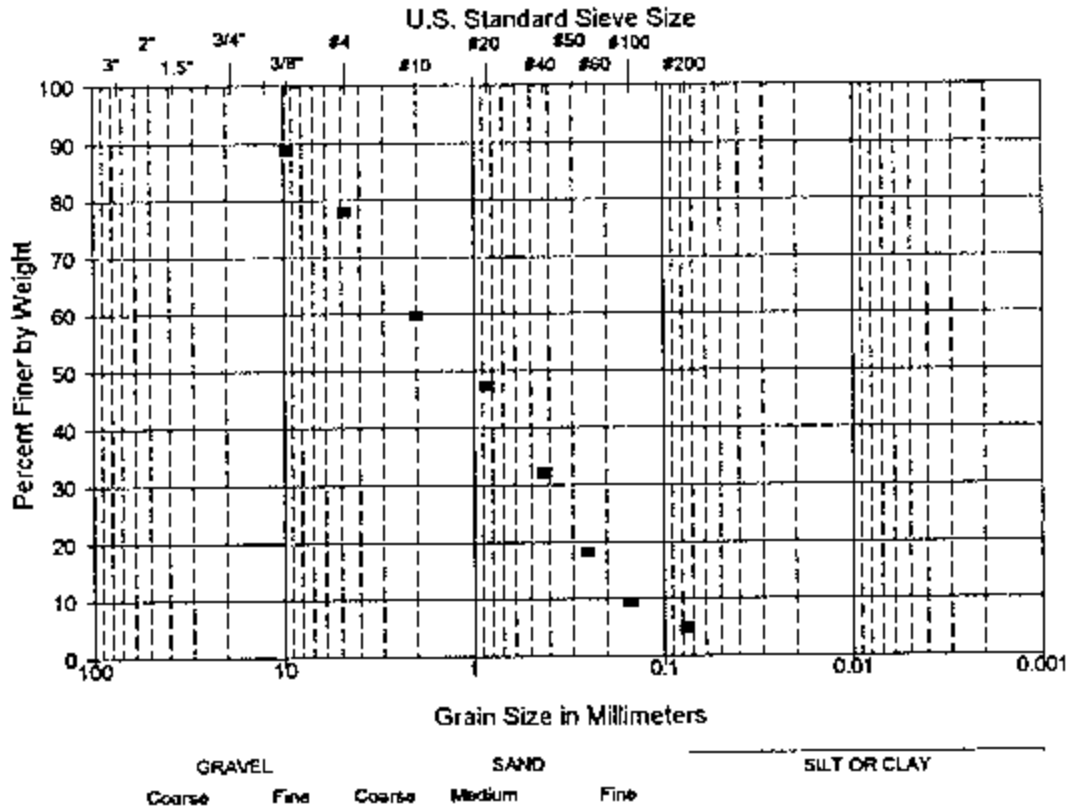
SAMPLE DATA:

Boring No.:	H-3
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	88.6
No. 4	78.0
No. 10	59.7
No. 20	47.3
No. 40	32.2
No. 60	18.3
No. 100	9.3
No. 200	4.8

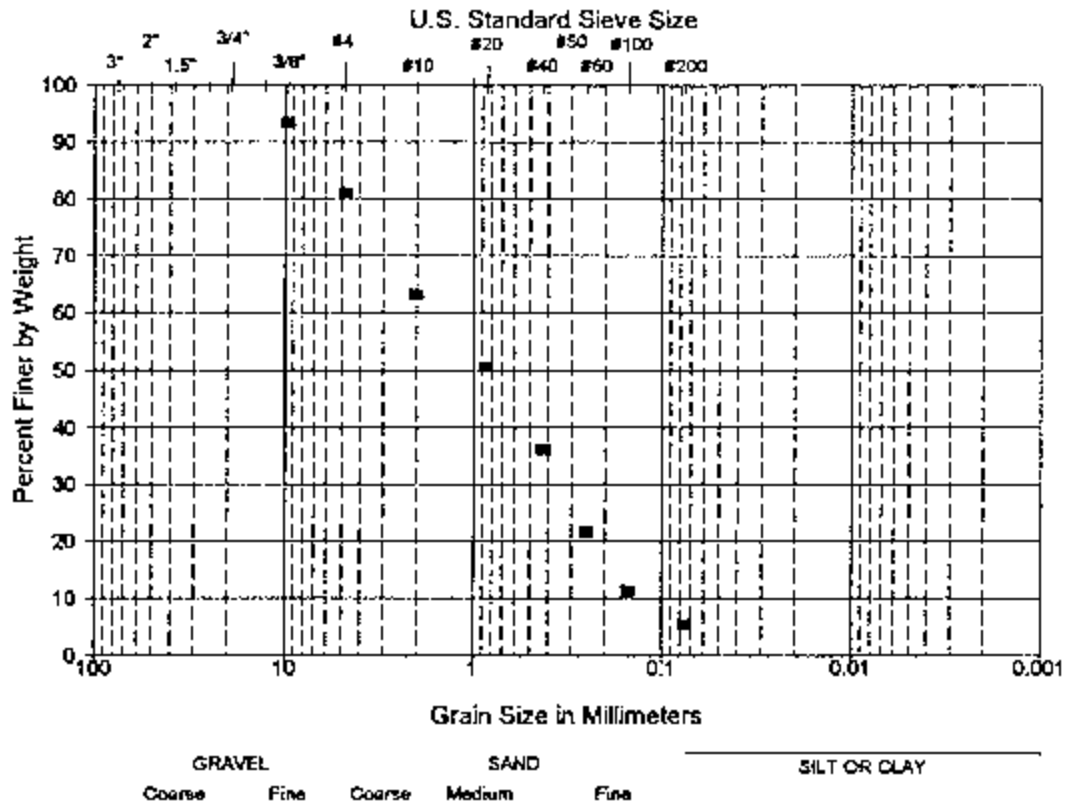
SAMPLE DATA:

Boring No.:	H-4
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	93.4
No. 4	81.0
No. 10	63.2
No. 20	50.7
No. 40	36.1
No. 60	21.7
No. 100	11.3
No. 200	5.4

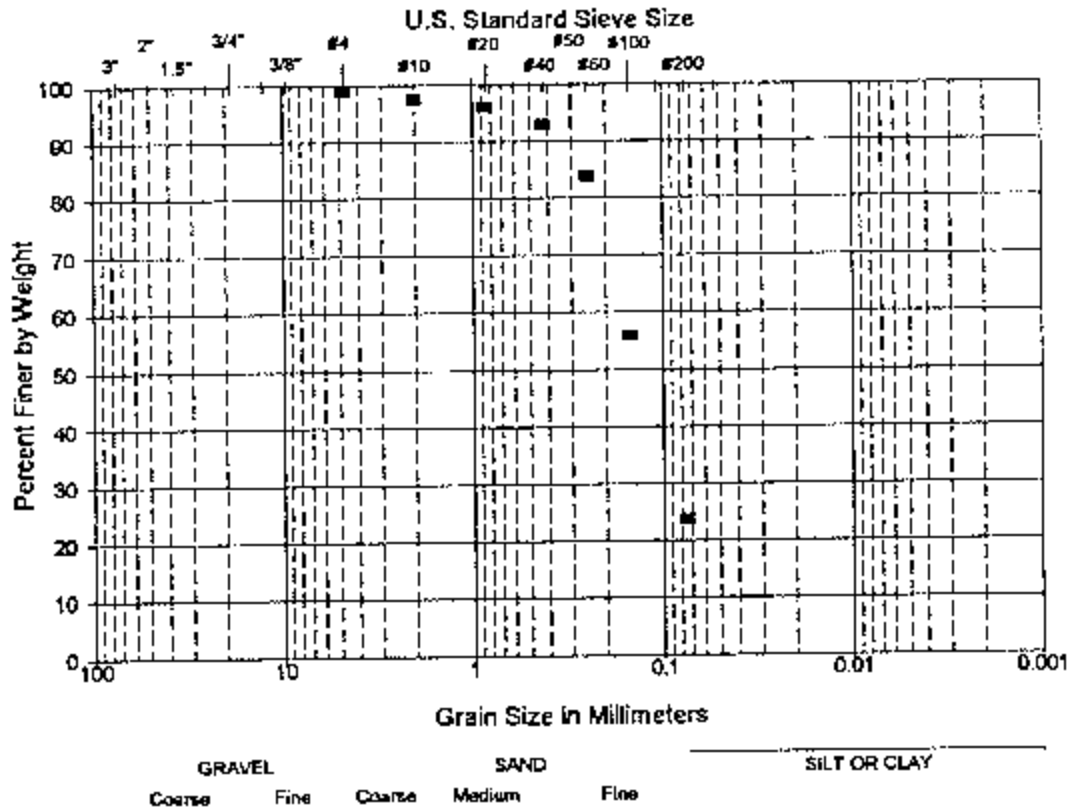
SAMPLE DATA:

Boring No.:	H-4 Duplicate
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	
No. 4	99.0
No. 10	97.6
No. 20	96.1
No. 40	93.0
No. 60	83.9
No. 100	56.2
No. 200	23.7

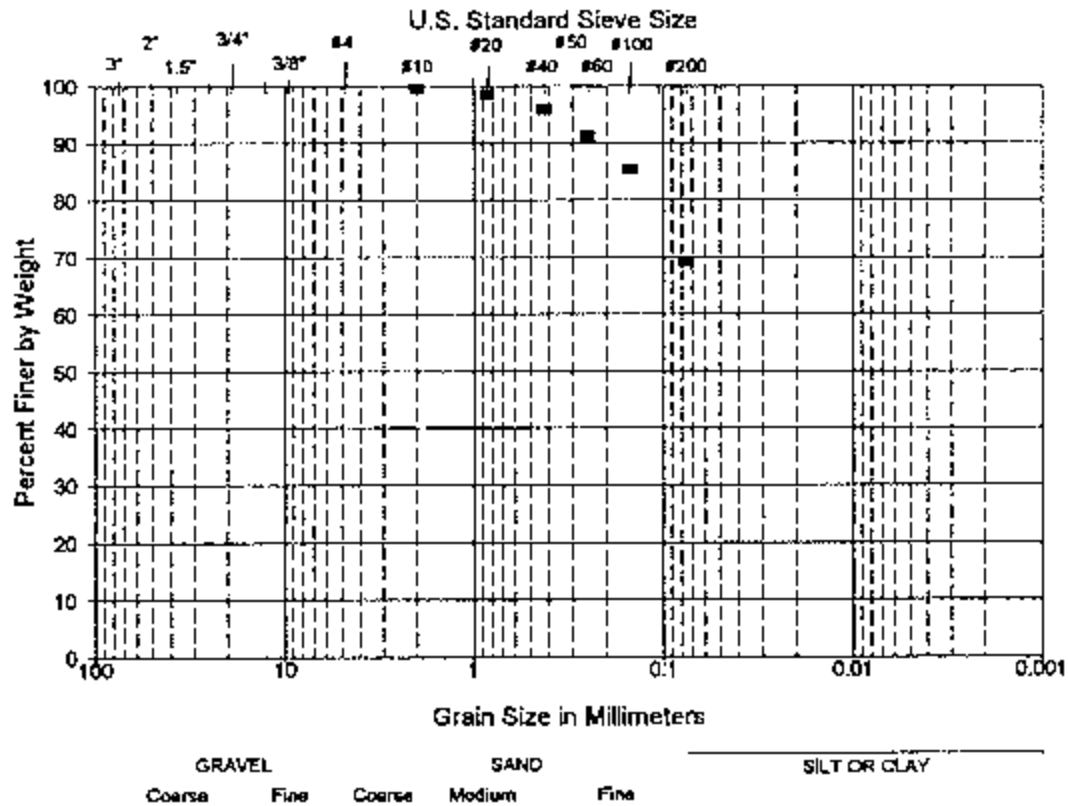
SAMPLE DATA:

Boring No.:	H-5
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	
No. 4	
No. 10	99.7
No. 20	98.6
No. 40	95.9
No. 60	91.2
No. 100	85.4
No. 200	69.2

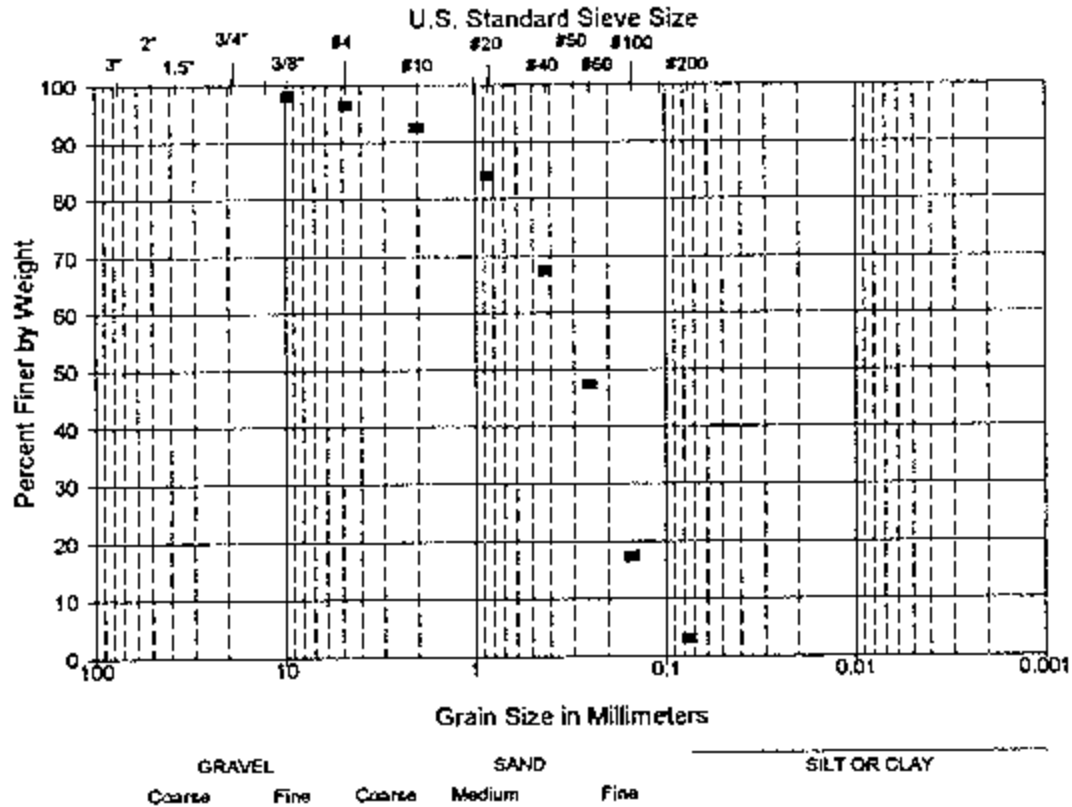
SAMPLE DATA:

Boring No.:	H-6
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	98.2
No. 4	96.4
No. 10	92.6
No. 20	84.0
No. 40	67.5
No. 60	47.4
No. 100	17.3
No. 200	3.1

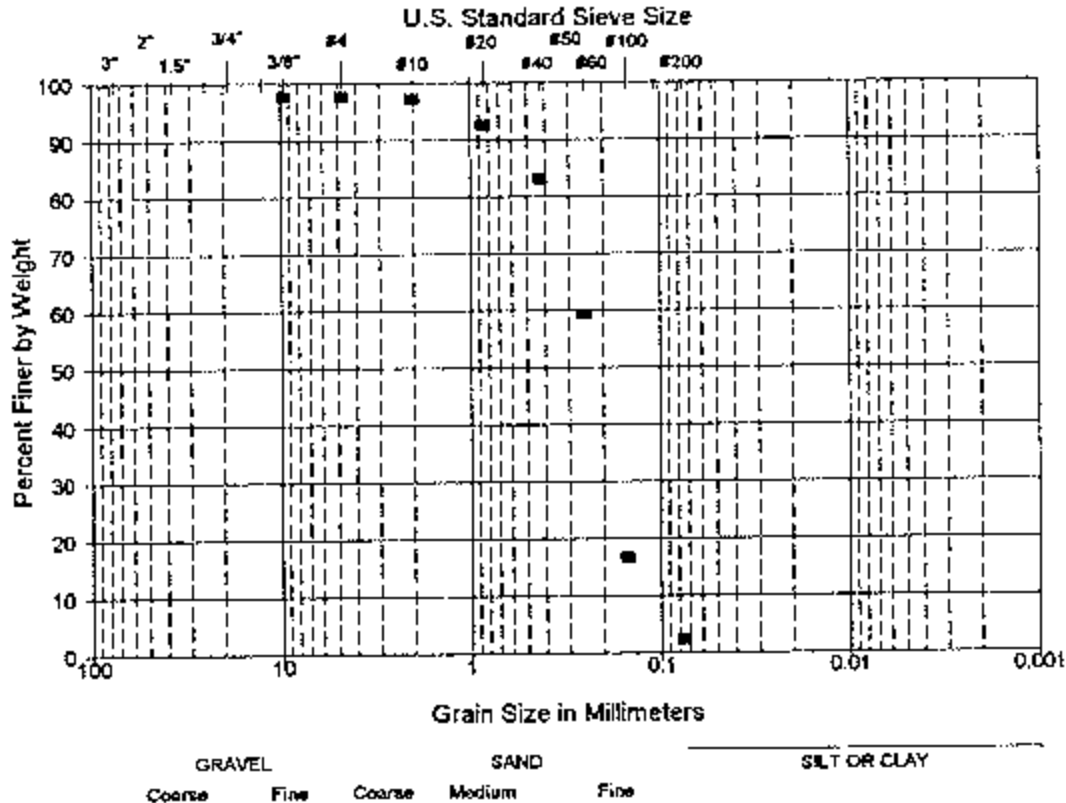
SAMPLE DATA:

Boring No.:	H-7
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	97.8
No. 4	97.6
No. 10	97.2
No. 20	92.6
No. 40	83.2
No. 60	59.4
No. 100	16.5
No. 200	2.4

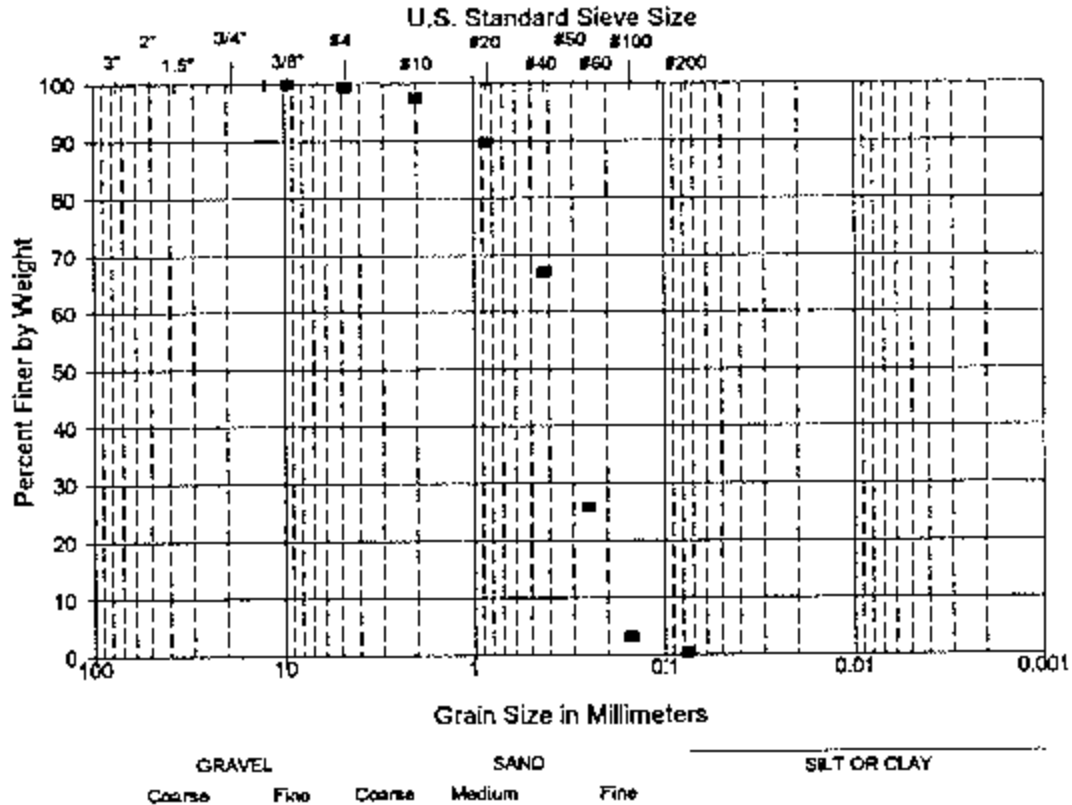
SAMPLE DATA:

Boring No.:	H-8
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	99.9
No. 4	99.3
No. 10	97.5
No. 20	89.7
No. 40	67.1
No. 60	25.8
No. 100	3.1
No. 200	0.3

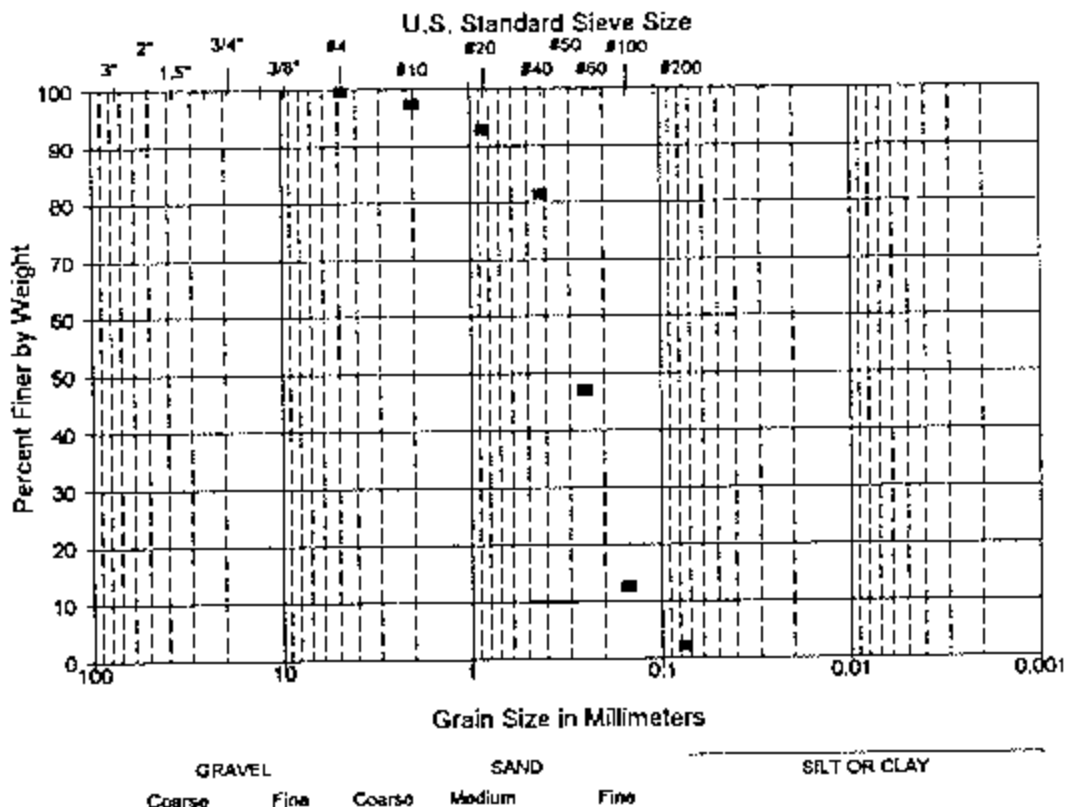
SAMPLE DATA:

Boring No.:	H-9
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	
No. 4	99.5
No. 10	97.5
No. 20	92.9
No. 40	81.5
No. 60	47.1
No. 100	12.5
No. 200	2.0

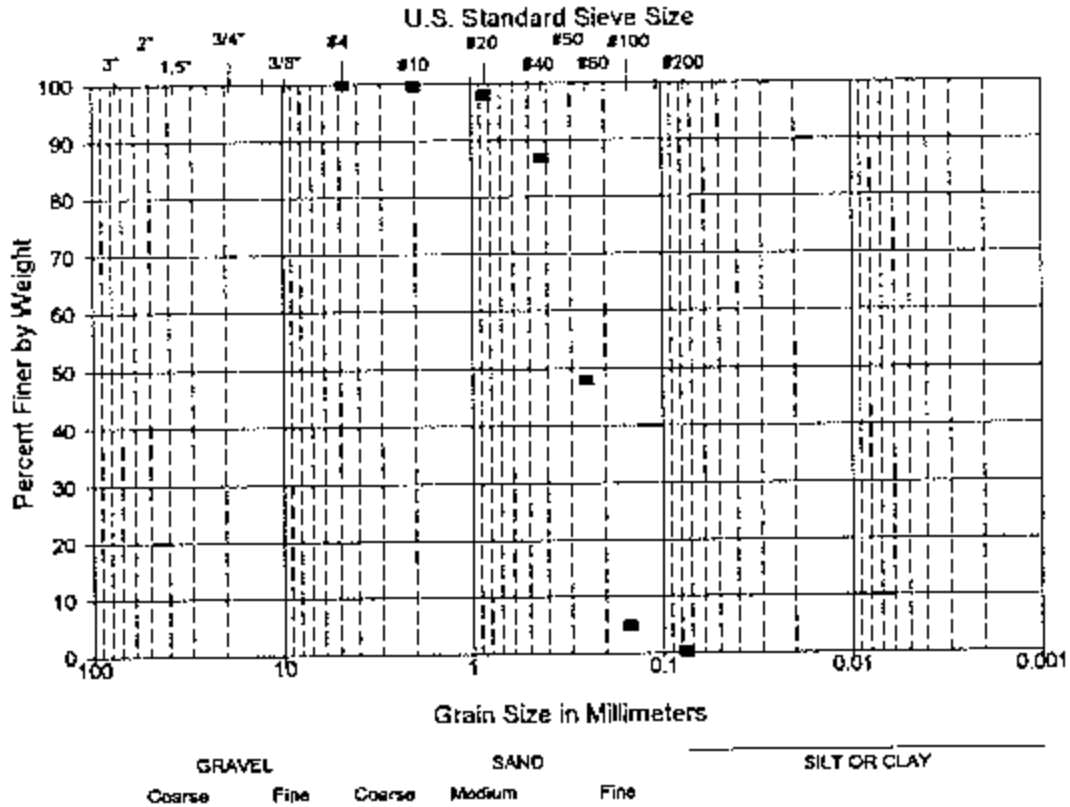
SAMPLE DATA:

Boring No.:	H-10
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	
No. 4	99.8
No. 10	99.6
No. 20	98.0
No. 40	86.9
No. 60	48.0
No. 100	4.7
No. 200	0.3

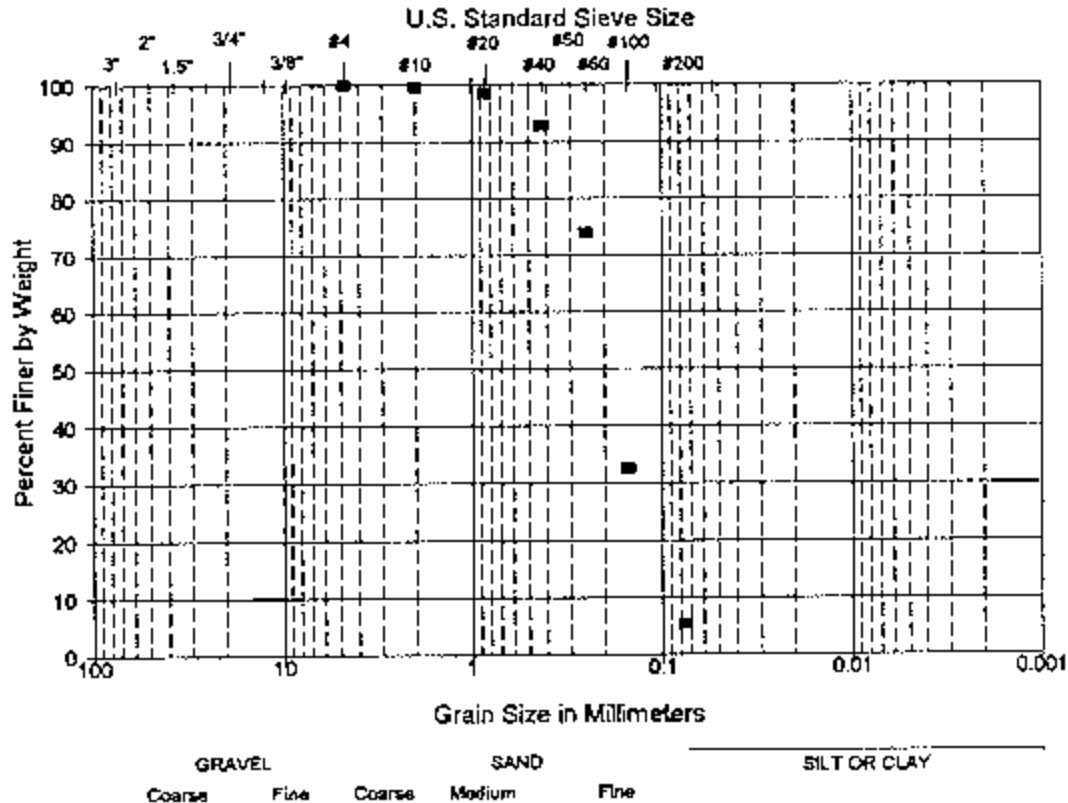
SAMPLE DATA:

Boring No.:	H-11
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

GRAIN SIZE DISTRIBUTION CURVE



SIEVE ANALYSIS:

Sieve Size	Percent Passing
3 in.	
2 in.	
1-1/2 in.	
1 in.	
3/4 in.	
3/8 in.	
No. 4	99.9
No. 10	99.6
No. 20	98.4
No. 40	92.9
No. 60	74.0
No. 100	32.6
No. 200	5.3

SAMPLE DATA:

Boring No.:	H-12
Sample No.:	
Sample Depth (feet):	NA
Soil Description:	sediment
Unified Soil Classification:	NA

OTHER LABORATORY TEST RESULTS:

Hudson Bayou,
Sarasota County, Florida

APPENDIX III

97 8710

5-15-98 COUNTY SLOUGHS

CALIBRATION

CONDUCTIVITY METER 148140

14) 1.41 4.876) 5.89

1415 4800 6.00

PH METER 538580

17) 7.05 - 7.01 T 24.4 - 24.5

4.00 - 4.0

Hudson Bayou & Osprey

#3 09:36

T = 28.5

PH = 7.55

Cond = 59.8 mS

Sampled mid depth.

@ 09:43

tide outgaging, de 10:00

west

Waldson Bayou & Orange

#4 @ 9:58

T = 25.7

PH = 8.33

Cond = 60.2 mS

Sampled 10:00

West flow

Phillippi Creek at Brina Vista

flow to south. ^{10'} Under about 10'

Shallow - less than 3'

T = 26.0

PH = 7.17

Cond = 80.4 mS

Sampled 10:52 - 10:54

Glass bottle 12 m. 10:55

Phillips of Columbia
Famulus # 50 North
(upstream) of where weir was
removed. Very slight south-
flow. (Wind to west. water
non-turbid but slightly
yellow) / lower part

T = 27.5
pH = 7.07
cond = 672 μ S
Sampled @ 11:31

Location 5 is I-75 at
Myakkae River gauge 15'. Flow to
down stream (south). Flow to
south. Water is 1' deep at gauge
point. 20' wide. Slight yellow.
+ 1 m.

T = 25.7
pH = 7.13
cond = 860 μ S
Sampled @ 12:49

NP Water Pkg. # 6
@ 13:10

Sampled @ 13:10
Water depth = 5.0'
Clear w/ slight brown tint.
Wind to south. Flow south
T = 26.6
pH = 7.14
cond = 998 μ S

Delivered to EQL @ 13:34
on 5/15/98. Noted to Karen
discarding #5 on bottles.

EQ

Fax (941) 629-7467

PO #

Analysis Request

page 1 of 1

Client: Sakista Co.	☐ New	Phone:
Project: Huckon Bayou		FAX:
Labid: 98/1399/ 5204		HRS Form?
Address:	☐ Yes ☒ No	
Preserved in Lab		
Minerals		
Nutrients		
NO ₂		
Metals		
Bacteria		
COD		
Oil & Grease		
TP-D		
of Corollaries		

[illegible]

Comments: Ardaman & Assoc. collecting project for Sevenside Co.

Chain of Custody

Total # of Containers = 48

Transfer	Released by:	Date	Time	Received by:
1st	<i>[Signature]</i> (Sample collector)	11-10-84	15:34	<i>[Signature]</i>
2nd				
3rd				
4th				
5th				

APPENDIX IV

5010 U.S. 19 North
Post Office Box 35
Palmetto, Florida 34220 0035

Palmetto (941) 722-6667
Bradenton (941) 747-0006
Tampa (813) 229-3516
Fax (941) 722-8384



September 9, 1998

Mr. Chip Hoover
ARDAMAN & ASSOCIATES, INC.
2500 Bee Ridge Road
Sarasota, Florida 34329

RE: **Macroinvertebrate Analysis of Selected Sites Along Phillipi Creek,
Big Slough and Hudson Bayou, Sarasota County, Florida**

Dear Mr. Hoover:

Pursuant to our agreement of April 9, 1998, macroinvertebrate analyses were performed at sites associated with the Sarasota County Monitoring Program. Specifically, qualitative dip net sampling was performed at fresh water sites, which includes Stations 1 and 2 located along Phillipi Creek and Stations 5 and 6 located along Myakkahatchee Creek (Big Slough). Petite ponar sampling of the substratum was performed at brackish water sites 3 and 4 located along Hudson Bayou.

Sampling was conducted on May 21 and 22, 1998. Dip net sample collection generally followed the USEPA Benthic Macroinvertebrate Dip Net Sample Collection procedures (SOP #BA-7) as described below.

A Physical/Chemical Characterization Field Data Sheet and Freshwater Benthic Habitat Assessment Field Data Sheet were filled out at each sampling station. EPA's procedures for completion of these forms were used at the sampling location. Copies of the completed sheets are attached as Appendix A.

A dip net with No. 30 mesh was then used to conduct 20 sweeps at each station. Sweeps were concentrated within the major habitat types, as recommended in SOP #BA-7, based on the initial station assessment. The number of 0.5-meter sweeps from each habitat was recorded on the field data sheet. Samples collected in each sweep were placed in individual containers labeled with the date, station number and sweep number. Samples were mixed

Mr. Chip Hoover
September 9, 1998
Page 2

with a solution of 10% formalin and rose bengal to preserve and stain the organisms and returned to the laboratory.

Each sample was then picked pursuant to EPA's Benthic Macroinvertebrate Qualitative (Dip Net) Sample Handling procedures (SOP #BA-8). The contents of each discreet sample were composited and sieved through a 0.5 mm mesh sieve. The entire contents of the 0.5 mm sieve were then placed in a gridded white enamel pan. The pan had a total of 24 numbered grids measuring 5 cm by 5 cm. A random number table was used to select a grid, the contents of which were then removed to another pan for picking. The number of organisms picked was recorded. Picking continued until the entire sample was processed or 100 organisms were picked. Once processing of a grid began, it was completed even if the 100 organism minimum was reached. All samples picked were checked by another technician to provide quality assurance. The total number of organisms and number of grids processed were recorded for each sample. Picked organisms were stored in 70 percent ethanol.

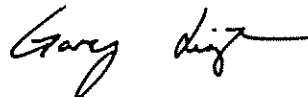
Ponar sampling involved the collection of three replicate samples from the two stations in Hudson Bayou. Following collection, samples were field-sieved through a 0.5 mm mesh sieve, stained with rose bengal and returned to the laboratory for picking, sorting and identification to the lowest practical taxa.

Results of the survey are provided in tabular form (Tables 1 and 2). Tables 3 and 4 provide comprehensive phylogenetic species lists of benthic macroinvertebrates collected by CCI during the dip net sampling and petite ponar sampling, respectively.

I trust that this information meets your needs. Should you have any questions, please do not hesitate to call me.

Sincerely,

CCI ENVIRONMENTAL SERVICES, INC.



Gary R. Lightbourn
Environmental Scientist

GRL:bls
Enclosures

cc: File No. 0135-003

CCI ENVIRONMENTAL SERVICES, INC.

TABLE 1. RESULTS OF DIP NET SAMPLING WITHIN STATIONS 1 AND 2 OF PHILLIPI CREEK AND 5 AND 6 OF MYAKKAHATCHEE CREEK, SARASOTA COUNTY MONITORING PROGRAM. SARASOTA COUNTY, FLORIDA, MAY 1998

TAXA	Site				TOTAL
	1	2	5	6	
TANYTARSUS SP.	14	10	55	15	94
POLYPEDEILUM SCALAENUM	0	42	16	0	58
CAENIS SP.	2	3	39	0	44
DICROTENDIPES SP.	3	25	13	3	44
HYALELLA AZTECA	19	3	5	13	40
CLADOTANYTARSUS SP.	8	2	15	0	25
CRYPTOTENDIPES SP.	0	0	24	1	25
TUBIFICIDAE SP. W/OUT HAIR	19	4	0	0	23
TUBIFICIDAE SP. WITH HAIR	18	4	0	0	22
NAIS COMMUNIS	0	10	0	7	17
PISIDIUM SP.	11	0	6	0	17
POLYPEDILUM TRITUM	1	3	10	1	15
PYRGOPHORUS PLATYRACHIS	7	0	6	1	14
DERO DIGITATA	3	0	0	10	13
DUBIRAPHIA SP.	1	0	12	0	13
PALAEONETES PALUDOSUS	6	3	2	2	13
CORBICULA FLUMINEA	6	0	4	0	10
CRYPTOCHIRONOMUS SP.	1	0	2	7	10
BAETIDAE SP.	2	5	1	1	9
POLYPEDILUM HALTERALE	3	4	0	1	8
TRICLADIDA SP.	3	0	3	2	8
CALLIBAETIS FLORIDANUS	0	4	0	3	7
HELOBDELLA STAGNALIS	6	0	1	0	7
NAIS PARDALIS	0	2	0	5	7
AULODRILUS PIGUETI	1	4	0	1	6
ENDOCHIRONOMUS SP.	0	0	0	6	6
PRISTINA LEIDYI	0	0	0	6	6
PRISTINA PROBOSCIDEA	1	0	0	5	6
STENELMIS SP.	0	0	6	0	6
STENONEMA SP.	0	0	6	0	6
COENAGRIONIDAE SP.	2	3	0	0	5
HEBETANCYLUS EXCENTRICUS	3	1	1	0	5

TABLE 1. (CONTINUED)

TAXA	Site				TOTAL
	1	2	5	6	
OECETIS SP.	1	1	2	1	5
POLYPEDILUM CONVICTUM	0	0	5	0	5
STENOCHIRONOMUS SP.	0	0	5	0	5
STENONEMA EXIGUUM	0	0	5	0	5
PRISTINA SYNCLITES	0	3	0	1	4
PROCLADIUS SP.	1	2	0	1	4
ABLABESMYIA MALLOCHI	0	0	3	0	3
GOMPHUS SP.	0	0	3	0	3
MACROMIA SP.	0	0	3	0	3
NECTOPSYCHE SP.	0	0	3	0	3
PENTANEURA SP.	0	1	2	0	3
POMACUA PALUDOSA	3	0	0	0	3
TRIBELOS FUSCICORNE	0	0	0	3	3
HELOBDELLA ELONGATA	0	2	0	0	2
ILYODRILUS TEMPLETONI	2	0	0	0	2
ISCHNURA SP.	0	1	0	1	2
LARSIA SP.	0	2	0	0	2
ONTOMYIA SP.	0	2	0	0	2
PARACHIRONOMUS SP.	0	0	0	2	2
STENONEMA FLORIDENSE	0	0	2	0	2
TIPULA SP.	1	1	0	0	2
ANODONTA IMBECILIS	1	0	0	0	1
ASHEUM SP.	0	0	0	1	1
ASTACIDAE SP.	0	0	0	1	1
CHEUMATOPSYCHE SP.	0	0	1	0	1
CLINOTANYPUS SP.	1	0	0	0	1
COLEOPTERA SP.	1	0	0	0	1
CORIXIDAE SP.	1	0	0	0	1
ECLIPIDRILUS PALUSTRIS	0	1	0	0	1
ENTOMOBYIDAE SP.	0	0	1	0	1
GERRIDAE SP.	0	0	1	0	1
HYDRA SP.	1	0	0	0	1
HYDROPTILA SP.	0	1	0	0	1
LIMNODRILUS HOFFMEISTERI	1	0	0	0	1
MENETUS DILATATUS	0	0	1	0	1

TABLE 1. (CONTINUED)

TAXA	Site				TOTAL
	1	2	5	6	
MESOVELIA MULSANTI	1	0	0	0	1
MOOREOBDELLA MICROSTOMA	0	1	0	0	1
NAIS VARIABILIS	0	0	0	1	1
PALPOMYIA/BEZZIA SP.	1	0	0	0	1
PELTODYTES SP.	0	1	0	0	1
PERITHEMIS TENERA	0	1	0	0	1
POLYPEDILUM TRIGONUS SP.	0	0	0	1	1
PSEUDOCHIRONOMUS SP.	0	1	0	0	1
PYRALIDAE SP.	1	0	0	0	1
RANATRA SP.	0	0	1	0	1
SCIRTIDAE SP.	0	0	1	0	1
TRICORYTHODES SP.	0	0	1	0	1
TOTAL ORGANISMS	157	153	267	103	680
RICHNESS (TOTAL TAXA)	37	33	37	29	79
DENSITY	N/A	N/A	NA	N/A	
DIVERSITY (10)	1.324	1.199	1.264	1.271	
EQUITABILITY	0.57	0.479	0.496	0.644	

TABLE 2. RESULTS OF PETITE PONAR SAMPLING WITHIN STATIONS 3 AND 4 OF HUDSON BAYOU, SARASOTA COUNTY MONITORING PROGRAM, SARASOTA COUNTY, FLORIDA, MAY 1998

TAXA	3	4	TOTAL
CAULLERIELLA SP.	3	119	122
STREBLOSPIO BENEDICTI	22	32	54
CAPITELLA CAPITATA	43	6	49
CARRAZIELLA HOBSONAE	0	33	33
THALASSIDRILIDES INERI	25	0	25
TUBIFICIDAE SP. W/OUT HAIR	9	15	24
MELITA CF. ELONGATA	0	13	13
MONTICELLINA DORSOBRANCHIALIS	0	13	13
TUBIFICOIDES BROWNAE	3	10	13
MEDIOMASTUS AMBISETA	0	12	12
CIRROPHORUS SP.	1	9	10
LAEONEREIS CULVERI	10	0	10
LIMNODRILOIDES BARNARDI	7	3	10
LIMNODRILOIDES RUBICUNDIS	0	5	5
GRANDIDIERELLA BONNIEROIDES	0	4	4
COROPHIUM SP.	0	2	2
MOOREONUPHIS NEBULOSA	2	0	2
AMYGDALUM PAPHIUM	1	0	1
BIVALVIA SP.	0	1	1
DRILONEREIS LONGA	0	1	1
HARGERIA REPAX	1	0	1
MACOMA TENTA	0	1	1
PARAHYALE HAWAIIENSIS	0	1	1
PARAPRIONOSPIO PINNATA	0	1	1
PODARKIOPSIS LEVIFUSCINA	1	0	1
POLYDORA SOCIALIS	1	0	1
PRIONOSPIO PERKINSI	0	1	1
TELLINA VERSICOLOR	1	0	1
TOTAL ORGANISMS	130	282	412
RICHNESS (TOTAL TAXA)	15	20	28
DENSITY (ORGANISMS/M ²)	1800	3900	
DIVERSITY (H')	0.862	0.904	
EQUITABILITY	0.486	0.401	

TABLE 3. COMPREHENSIVE PHYLOGENETIC SPECIES LIST OF BENTHIC
MACROINVERTEBRATES COLLECTED BY DIP NET WITHIN PHILLIPI
CREEK AND MYAKKAHATCHEE CREEK, MAY 1998

CNIDARIA
HYDROZOA
HYDROIDA
HYDRIDAE
HYDRA SP.

PLATYHELMINTHES
TURBELLARIA
TRICLADIDA
TRICLADIDA SP.

ANNELIDA
OLIGOCHAETA
TUBIFICIDA
NAIDIDAE
DERO DIGITATA
NAIS COMMUNIS
NAIS PARDALIS
NAIS VARIABILIS
PRISTINA LEIDYI
PRISTINA PROBOSCIDEA
PRISTINA SYNCLITES
TUBIFICIDAE
TUBIFICIDAE SP. W/OUT HAIR
TUBIFICIDAE SP. W/HAIR
AULODRILUS FIGUETI
ILYODRILUS TEMPLETONI
LIMNODRILUS HOFFMEISTERI
LUMBRICULIDA
LUMBRICULIDAE
ECLIPIDRILUS PALUSTRIS
HIRUDINEA
RHYNCHOBDELLIDA
GLOSSIPHONIIDAE
HELOBDELLA ELONGATA
HELOBDELLA STAGNALIS
ERPOBDELLIDAE
MOOREOBDELLA MICROSTOMA

TABLE 3. (CONTINUED)

MOLLUSCA
 GASTROPODA
 MESOGASTROPODA
 HYDROBIIDAE
PYRGOPHORUS PLATYRACHIS
 AMPULLARIIDAE
POMACEA PALUDOSUS
 LIMNOPHYLA
 PLANORBIDAE
MENETUS DILATATUS
 ANCYLIDAE
HEBETANCYLUS EXCENTRICUS
 BIVALVIA
 BIVALVIA SP.
 SCHIZODONTA
 UNIONIDAE
ANODONTA IMBECILIS
 HETERODONTA
 SPHAERIIDAE
PISIDIUM SP.
 CORBICULIDAE
CORBICULA FLUMINEA

 ARTHROPODA
 CRUSTACEA
 AMPHIPODA
 HYALELLIDAE
HYALELLA AZTECA
 DECAPODA
 PALAEMONIDAE
PALAEMONETES PALUDOSUS
 ASTACIDAE
 ASTACIDAE SP.
 INSECTA
 COLLEMBOLA
 ENTOMOBRYIDAE
 ENTOMOBRYIDAE SP.
 EPHEMEROPTERA
 CAENIDAE
 TRICORYTHIDAE
TRICORYTHODES SP.
 HEPTAGENIIDAE
STENONEMA SP.

TABLE 3. (CONTINUED)

STENONEMA EXIGUUM

STENONEMA FLORIDENSE

BAETIDAE

BAETIDAE SP.

CALLIBAETIS FLORIDANUS

ODONATA

GOMPHIDAE

GOMPHUS SP.

COENAGRIONIDAE

COENAGRIONIDAE SP.

ISCHNURA SP.

MACROMIIDAE

MACROMIA SP.

LIBELLULIDAE

PERITHEMIS TENERA

TRICHOPTERA

HYDROPSYCHIDAE

CHEUMATOPSYCHE SP.

HYDROPTILIDAE

HYDROPTILA SP.

LEPTOCERIDAE

NECTOPSYCHE SP.

OECETIS SP.

POLYCENTROPODIDAE

LEPIDOPTERA

PYRALIDAE

PYRALIDAE SP.

HEMIPTERA

CORIXIDAE

CORIXIDAE SP.

GERRIDAE

GERRIDAE SP.

MESOVELIIDAE

MESOVELIA MULSANTI

NEPIDAE

RANATRA SP.

COLEOPTERA

COLEOPTERA SP.

HALIPLIDAE

PELTODYTES SP.

ELMIDAE

DUBIRAPHIA SP.

TABLE 3. (CONTINUED)

STENELMIS SP.
SCIRTIDAE
SCIRTIDAE SP.

DIPTERA
CERATOPOGONIDAE
PALPOMYIA BEZZIA SP.
TIPULIDAE
TIPULA SP.
STRATIOMYIDAE
ONTOMYIA SP.
CHIRONOMIDAE
ABLABESMYIA MALLOCHI
ASHEUM SP.
CLINOTANYPUS SP.
CLADOTANYTARSUS SP.
CRYPTOCHIRONOMUS SP.
CRYPTOTENDIPES SP.
DICROTENDIPES SP.
LARSIA SP.
PARACHIRONOMUS SP.
PENTANEURA SP.
POLYPEDILUM CONVICTUM
POLYPEDILUM HALTERALE
POLYPEDILUM SCALAENUM
POLYPEDILUM TRIGONUS
POLYPEDILUM TRITUM
PROCLADIUS SP.
PSEUDOCHIRONOMUS SP.
STENOCHIRONOMUS SP.
TANYTARSUS SP.
TRIBELOS FUSCICORNE

TABLE 4. COMPREHENSIVE PHYLOGENETIC SPECIES LIST COLLECTED BY
PETITE PONAR WITHIN HUDSON BAYOU, MAY 1998

ANNELIDA
 POLYCHAETA
 PHYLLODOCIDA
 HESIONIDAE
PODARKIOPSIS LEVI-FUSCINA
 NEREIDAE
LAEONERIS CULVERI
 ONUPHIDAE
MOOREONUPHIS NEBULOSA
 ARABELLIDAE
DRILONEREIS LONGA
 ORBINIIDA
 PARAONIDAE
CIRROPHORUS SP.
 SPIONIDA
 SPIONIDAE
CARRAZZIELLA HOBSONAE
PARAPRIONOSPIO PINNATA
POLYDORA SOCIALIS
PRIONOSPIO PERKINSI
STREBLOSPIO BENEDICTI
 CIRRATULIDAE
CAULLERIELLA SP.
MONTICELLINA DORSOBANCHIALIS
 CAPITELLIDA
 CAPITELLIDAE
CAPITELLA CAPITATA
MEDIOMASTUS AMBISETA
 OLIGOCHAETA
 TUBIFICIDA
 TUBIFICIDAE
 TUBIFICIDAE SP. W/OUT HAIR SETAE
LIMNODRILOIDES BARNARDI
LIMNODRILOIDES RUBICUNDIS
THALASSODRILIDES INERI
TUBIFICOIDES BROWNAE

TABLE 4. (CONTINUED)

MOLLUSCA

BIVALVIA

BIVALVIA SP.

MYTILOIDA

MYTILIDAE

AMYGDALUM PAPHIUM

VENEROIDA

TELLINIDAE

MACOMA TENTA

TELLINA VERSICOLOR

ARTHROPODA

TANAIDACEA

PARATANAIDAE

HARGERIA REPAX

AMPHIPODA

MELITIDAE

MELITA CF. *ELONGATA*

AORIDAE

GRANDIDIERELLA BONNIEROIDES

COROPHIDAE

COROPHIUM SP.

HYALELLIDAE

PARHYALE HAWAIIENSIS

APPENDIX A

PHYSICAL/CHEMICAL CHARACTERIZATION AND FRESHWATER BENTHIC HABITAT ASSESSMENT FIELD DATA SHEETS

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (FDES-001)

SUBMITTING AGENCY CODE: SUBMITTING AGENCY NAME:	STORE STATION NUMBER:	DATE (MM/DD): 5/21/98	TIME: 11:10	RECEIVING BODY OF WATER: Phillipi Creek
REMARKS:		LOCATION: Site No. 1		FIELD ID NAME:

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Surrounding Land-Use (Specify relative percent in each category):						
Forest ☐	Field/Pasture ☐	Agricultural ☒ 100	Residential ☐	Commercial ☐	Industrial ☐	Other (Specify) ☐
Local Watershed Erosion (check box): None ☒ Moderate ☐ Heavy ☐						
Local Watershed NPS Pollution (check box): No evidence ☐ Some potential sources ☒ Obvious sources ☐						
Point-Source Pollution (list location and describe):						
Estimated System Width (range, m): 20		Estimated System Depth (range, m): 1.3 m		Impounded ☒ yes		
High Water Mark (m above bed): 2.5 m		Velocity (range, m/s): 0		Channelized ☒		
Canopy Cover % : Open : ☒ Lightly Shaded (11-45%) ☐ Moderately Shaded (46-80%) ☐ Heavily Shaded: ☐						

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐	
Sediment Oils: Absent: ☒ Slight: ☐ Moderate: ☐ Profuse: ☐	
Sediment Deposits: Sludge: ☐ Paper Fiber: ☐ Mud: ☒ Sand: ☒ Shell: ☐ Other: ☒ Garbage	
Substrate Types	% coverage # times sampled method
Woody Debris (Snags)	
Leaf Packs	
Aquatic Vegetation	100 10 Sweep
Rock or Shell Rubble	
Undercut Banks/Roots	
Substrate Types	% coverage # times sampled method
Riffles	
Sand	
Mud/Muck/Silt	100 10 Sweep
Benthic leaf mats	
Other:	

WATER QUALITY

	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm):	Secchi (m)
Top	0.0	27.2	6.96	4.6	510	
Mid-depth	0.75	27.2	6.96	4.6	510	
Bottom	1.3	27.2	6.96	4.6	510	
System Type : Stream ☒ (Sand Bottomed Swamp & Bog Alluvial) Lake: ☐ Wetland: ☐ Estuary: ☐ Other: ☐ Channelized Creek						
Water Odors (check box): Normal: ☐ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐						
Water Surface Oils (check box): None: ☒ Sheen: ☐ Globbs: ☐ Slick: ☐						
Clarity (check box): Clear: ☐ Slightly turbid: ☐ Turbid: ☐ Opaque: ☒						
Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☐ Other: ☐						
Weather Conditions:		Abundance: Absent Rare Common Abundant				
Clear. High 80's.		Periphyton ☐ ☐ ☒ ☐				
		Fish ☐ ☐ ☒ ☐				
		Aquatic Macrophytes ☐ ☐ ☒ ☐				
		Iron/sulfur Bacteria ☐ ☐ ☒ ☐				

SAMPLING TEAM: Gary Lightbourn/Kevin Guettler	SIGNATURE: 5/21/98

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
FRESHWATER BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: _____ SUBMITTING AGENCY NAME: _____	STOREY STATION NUMBER: _____	DATE (MM/DD): 5/21/98	RECEIVING BODY OF WATER: Phillipi Creek

REMARKS: _____	LOCATION: Site No. 1	FIELD NO.: _____

Habitat Parameter score	Excellent	Good	Fair	Poor
Bottom Substrate/ Available Cover 8	Greater than 40% snags, logs, tree roots, emergent vegetation, leaf packs, undercut banks, rubble, or other stable habitat. 23-30 points	20% to 40% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Adequate habitat. 16-22 points	5% to 20% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Less than desirable habitat. 8-15 points	Less than 5% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Lack of habitat is obvious. 0-7 points
Water Velocity 0	Max. observed; >0.3 m/sec. but < 1 m/sec 23-30 points	Max. observed; 0.1 to 0.3 m/sec 16-22 points	Max. observed; 0.05 to 0.1 m/sec 8-15 points	Max. observed; <0.05 m/sec, or spate occurring; > 2 m/sec 0-7 points
Artificial Channel/ Flow Alteration 0	No artificial channelization. Little activity (impervious surface) in watershed which would cause scouring during spates. 12-15 points	—	—	Artificially channelized, or scouring present during spates because of excess impervious surface in watershed. 0-3 points
Bank Stability 8	Stable. No evidence of erosion or bank failure. Little potential for future problems. 9-10 points	Moderately stable. Infrequent or small areas of erosion, mostly healed over. 6-8 points	Moderately unstable. Moderate areas of erosion, high erosion potential during floods. 3-5 points	Unstable. Many raw, eroded areas. Obvious bank sloughing. 0-2 points
Riparian Zone Vegetation Quality 0	Over 80% of streambank surfaces consist of native plants, classified as: bottomland hardwoods, understory shrubs, or non-woody macrophytes. 9-10 points	50% to 80% of riparian zone is vegetated, but one class of plants is not represented. 6-8 points	25% to 50% of riparian zone is vegetated, but one or two classes of plants are not represented. 3-5 points	Less than 25% of streambank surfaces are vegetated. Poor plant community (e.g. grass monoculture) present. 0-2 points

Adjustments 5	Add 5 points if cross-sectional area of flow is estimated to be greater than one square meter during periods of normal flow.	TOTAL SCORE 21

COMMENTS:

ANALYSIS DATE: 5/21/98	ANALYST: Gary Lightbourn	SIGNATURE: _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (Part 1 of 2)

SUBMITTING AGENCY CODE: _____	STORED STATION NUMBER: _____	DATE (MM/DD): 5/22/98	TIME: 13:30	RECEIVING BODY OF WATER: _____
SUBMITTING AGENCY NAME: _____				

REMARKS: _____	LOCATION: Site No. 2	FIELD NAME: _____

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Surrounding Land-Use (specify relative percent in each category):						
Forest ☐	Field/Pasture ☐	Agricultural ☐	Residential ☒ 100	Commercial ☐	Industrial ☐	Other (Specify) ☐
Local Watershed Erosion (check box): None ☐ Moderate ☐ Heavy ☐						
Local Watershed NPS Pollution (check box): No evidence ☐ Some potential sources ☒ Obvious sources ☐						
Point-Source Pollution (list location and describe): Waste water treatment plant upstream						
Estimated System Width (range, m): 2.0		Estimated System Depth (range, m): 1.5		yes ☐		
High Water Mark (m above bed): 2.5		Velocity (range, m/s):		Impounded ☐		
				Channelized ☐		
Canopy Cover %: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐						

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☐ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐							
Sediment Oils: Absent: ☐ Slight: ☐ Moderate: ☐ Profuse: ☐							
Sediment Deposits: Sludge: ☐ Paper Fiber: ☐ Mud: ☐ Sand: ☒ Shell: ☒ Other: ☐							
Substrate Types	% coverage	times sampled	method	Substrate Types	% coverage	times sampled	method
Woody Debris (Snags)	0	1	Dip	Riffles			
Leaf Packs				Sand	100	6	Dip
Aquatic Vegetation	50	7	Dip	Mud/Muck/Silt			
Rock or Shell Rubble				Benthic leaf mats			
Undercut Banks/Roots				Other:			

WATER QUALITY

	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm):		Secchi (m):
Top							
Mid-depth	0.6	29.58	7.10	8.18	638		
Bottom	1.2						
System Type: Stream ☒ Sand Bottomed ☐ Swamp & Bog ☐ Alluvial ☐ Lake: ☐ Wetland: ☐ Estuary: ☐ Other: ☐ Channelize ☐ Creek ☐							
Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐							
Water Surface Oils (check box): None: ☒ Sheen: ☐ Globbs: ☐ Slick: ☐							
Clarity (check box): Clear: ☒ Slightly turbid: ☐ Turbid: ☐ Opaque: ☐							
Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☒ Other: ☐							
Weather Conditions:		Abundance:					
Clear, low 90's.		Periphyton		Absent		Rare	
		Fish		Common		Abundant	
		Aquatic Macrophytes					
		Iron/sulfur Bacteria					

SAMPLING TEAM: _____	SIGNATURE: _____	DATE: _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
FRESHWATER BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: _____	STRUCT STATION NUMBER: _____	DATE (MM/DD): 5/22/98	RECEIVING BODY OF WATER: _____
SUBMITTING AGENCY NAME: _____			

REMARKS: _____	LOCATION: Site No. 2	FIELD ID NAME: _____

Habitat Parameter score	Excellent	Good	Fair	Poor
Bottom Substrate/ Available Cover 10	Greater than 40% snags, logs, tree roots, emergent vegetation, leaf packs, undercut banks, rubble, or other stable habitat. 23-30 points	20% to 40% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Adequate habitat. 16-22 points	5% to 20% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Less than desirable habitat. 8-15 points	Less than 5% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Lack of habitat is obvious. 0-7 points
Water Velocity 2	Max. observed: >0.3 m/sec. but < 1 m/sec 23-30 points	Max. observed; 0.1 to 0.3 m/sec 16-22 points	Max. observed; 0.05 to 0.1 m/sec 8-15 points	Max. observed, <0.05 m/sec, or spate occurring; > 2 m/sec 0-7 points
Artificial Channel/ Flow Alteration 0	No artificial channelization. Little activity (impervious surface) in watershed which would cause scouring during spates. 12-15 points	—	—	Artificially channelized, or scouring present during spates because of excess impervious surface in watershed. 0-3 points
Bank Stability 5	Stable. No evidence of erosion or bank failure. Little potential for future problems. 9-10 points	Moderately stable. Infrequent or small areas of erosion, mostly healed over. 6-8 points	Moderately unstable. Moderate areas of erosion, high erosion potential during floods. 3-5 points	Unstable. Many raw, eroded areas. Obvious bank sloughing. 0-2 points
Riparian Zone Vegetation Quality 1	Over 80% of streambank surfaces consist of native plants, classified as: bottomland hardwoods, understory shrubs, or non-woody macrophytes. 9-10 points	50% to 80% of riparian zone is vegetated, but one class of plants is not represented. 6-8 points	25% to 50% of riparian zone is vegetated, but one or two classes of plants are not represented. 3-5 points	Less than 25% of streambank surfaces are vegetated. Poor plant community (e.g. grass monoculture) present. 0-2 points

Adjustments 5	Add 5 points if cross-sectional area of flow is estimated to be greater than one square meter during periods of normal flow.	TOTAL SCORE 23

COMMENTS:

ANALYSIS DATE: 5/22/98	ANALYST: Gary Lightbourn	SIGNATURE: _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET

SUBMITTING AGENCY CODE: _____	STORE/STATION NUMBER: _____	DATE (M/D/Y): 5/21/98	TIME: 14:30	RECEIVING BODY OF WATER: _____
SUBMITTING AGENCY NAME: _____				

REMARKS: _____	LOCATION: Site No. 5	FIELD ID NAME: _____

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Surrounding Land-Use (specify relative percent in each category):						
Forest 90	Field/Pasture 10	Agricultural 10	Residential 10	Commercial 10	Industrial 10	Other (Specify): _____
Local Watershed Erosion (check box): None ☐ Moderate ☒ Heavy ☐						
Local Watershed NPS Pollution (check box): No evidence ☐ Some potential sources ☒ Obvious sources ☐						
Point-Source Pollution (list location and describe): _____						
Estimated System Width (range, m): 1.0		Estimated System Depth (range, m): 0.0-1.0		yes ☐		
High Water Mark (m above bed): 2.5		Velocity (range, m/s): <0.1 m/s		Impounded ☐		
				Channelized ☒		
Canopy Cover %: Open: ☐ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☒ Heavily Shaded: ☐						

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐							
Sediment Oils: Absent: ☒ Slight: ☐ Moderate: ☐ Proluse: ☐							
Sediment Deposits: Sludge: ☐ Paper Fiber: ☐ Mud: ☒ Sand: ☒ Shell: ☒ Other: ☐							
Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Woody Debris (Snags)	50	7	Dip	Riffles	100	6	Dip
Leaf Packs	50	7	Dip	Sand	100	6	Dip
Aquatic Vegetation	50	7	Dip	Mud/Muck/Silt	100	6	Dip
Rock or Shell Rubble	50	7	Dip	Benthic leaf mats	100	6	Dip
Undercut Banks/Roots	50	7	Dip	Other:	100	6	Dip

WATER QUALITY

	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm):	Secchi (m):
Top						
Mid-depth						
Bottom	0.3 m	25.62	6.87	10.46	8.39	
System Type: Stream ☒ (Sand Bottomed Swamp & Bog Alluvial) Lake: ☐ Wetland: ☐ Estuary: ☐ Other: ☐						
Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐						
Water Surface Oils (check box): None: ☒ Sheen: ☐ Globbs: ☐ Slick: ☐						
Clarity (check box): Clear: ☒ Slightly turbid: ☐ Turbid: ☐ Opaque: ☐						
Color (check box): Tannic: ☒ Green (algae): ☐ Clear: ☐ Other: ☐						
Weather Conditions:		Abundance:				
Clear, low 90's.		Periphyton	☐	☐	☐	☐
		Fish	☐	☐	☐	☒
		Aquatic Macrophytes	☐	☐	☐	☐
		Iron/sulfur Bacteria	☐	☐	☐	☐

SAMPLING TEAM: Gary Lightbourn/Kevin Guettler	SIGNATURE: _____	DATE: _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
FRESHWATER BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE SUBMITTING AGENCY NAME	STREAM STATION NUMBER	DATE (MM/DD) 5/21/98	RECEIVING BODY OF WATER

REMARKS	LOCATION Site No. 5	FIELD NUMBER

Habitat Parameter score	Excellent	Good	Fair	Poor
Bottom Substrate/ Available Cover 8	Greater than 40% snags, logs, tree roots, emergent vegetation, leaf packs, undercut banks, rubble, or other stable habitat. 23-30 points	20% to 40% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Adequate habitat. 16-22 points	5% to 20% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Less than desirable habitat. 8-15 points	Less than 5% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Lack of habitat is obvious. 0-7 points
Water Velocity 1	Max. observed; >0.3 m/sec. but < 1 m/sec 23-30 points	Max. observed; 0.1 to 0.3 m/sec 16-22 points	Max. observed; 0.05 to 0.1 m/sec 8-15 points	Max. observed; <0.05 m/sec, or spate occurring; > 2 m/sec 0-7 points
Artificial Channel/ Flow Alteration 3	No artificial channelization. Little activity (impervious surface) in watershed which would cause scouring during spates. 12-15 points	—	—	Artificially channelized, or scouring present during spates because of excess impervious surface in watershed. 0-3 points
Bank Stability 4	Stable. No evidence of erosion or bank failure. Little potential for future problems. 9-10 points	Moderately stable. Infrequent or small areas of erosion, mostly healed over. 6-8 points	Moderately unstable. Moderate areas of erosion, high erosion potential during floods. 3-5 points	Unstable. Many raw, eroded areas. Obvious bank sloughing. 0-2 points
Riparian Zone Vegetation Quality 10	Over 80% of streambank surfaces consist of native plants, classified as: bottomland hardwoods, understory shrubs, or non-woody macrophytes. 9-10 points	50% to 80% of riparian zone is vegetated, but one class of plants is not represented. 6-8 points	25% to 50% of riparian zone is vegetated, but one or two classes of plants are not represented. 3-5 points	Less than 25% of streambank surfaces are vegetated. Poor plant community (e.g. grass monoculture) present. 0-2 points

Adjustments

5

Add 5 points if cross-sectional area of flow is estimated to be greater than one square meter during periods of normal flow.

TOTAL SCORE

31

COMMENTS:

ANALYSIS DATE: 5/21/98	ANALYST: Gary Lightbourn	SIGNATURE:

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (2/8/96)

SUBMITTING AGENCY CDR: _____ SUBMITTING AGENCY NAME: _____	STATION NUMBER: _____	DATE (MM/DD): 5/21/98	TIME: 15:10	RECEIVING BODY OF WATER: _____
REMARKS: _____		LOCATION: Site No. 6		FIELD NAME: _____

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Surrounding Land-Use (specify relative percent in each category):

Forest: 60	Field/Pasture: _____	Agricultural: _____	Residential: 20	Commercial: _____	Industrial: 20	Other (Specify): _____

Local Watershed Erosion (check box): None ☒ Moderate ☐ Heavy ☐

Local Watershed NPS Pollution (check box): No evidence ☐ Some potential sources ☒ Obvious sources ☐

Point-Source Pollution (list location and describe): _____

Estimated System Width (range, m): **35** Estimated System Depth (range, m): **3-4**

High Water Mark (m above bed): **5** Velocity (range, m/s): **0.1**

Canopy Cover %: Open: ☐ Lightly Shaded (11-45%): ☒ Moderately Shaded (46-80%): ☒ Heavily Shaded: ☐

Impounded: ☒ Channelized: ☐

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐

Sediment Oils: Absent: ☒ Slight: ☐ Moderate: ☐ Profuse: ☐

Sediment Deposits: Sludge: ☐ Paper Fiber: ☐ Mud: ☐ Sand: ☒ Shell: ☐ Other: ☐

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Woody Debris (Snags)	100	10	Dip	Riffles	100	10	Dip
Leaf Packs	100	10	Dip	Sand	100	10	Dip
Aquatic Vegetation	100	10	Dip	Mud/Muck/Silt	100	10	Dip
Rock or Shell Rubble	100	10	Dip	Benthic leaf mats	100	10	Dip
Undercut Banks/Roots	100	10	Dip	Other:	100	10	Dip

WATER QUALITY

	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm):	Secchi (m):
Top	0.3	28.8	7.4	21-22	570	
Mid-depth						
Bottom	0.3	28.8	7.4	21-22	570	

System Type: Stream ☒ (Sand Bottomed Swamp & Bog Alluvial) Lake: ☐ Wetland: ☐ Estuary: ☐ Other: ☒ Creek

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐

Water Surface Oils (check box): None: ☒ Sheen: ☐ Globbs: ☐ Slick: ☐

Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Color (check box): Tannic: ☒ Green (algae): ☐ Clear: ☐ Other: ☐

Weather Conditions: 90's, 0% occluded, hazy

	Abundance:	Absent	Rare	Common	Abundant
Periphyton		☐	☐	☐	☐
Fish		☐	☐	☐	☒
Aquatic Macrophytes		☐	☐	☐	☐
Iron/sulfur Bacteria		☐	☐	☐	☐

SAMPLING TEAM: Gary Lightbourn/Kevin Guettler	SIGNATURE: _____	DATE: _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
FRESHWATER BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: _____	STORET STATION NUMBER: _____	DATE (MM/DD/YY): 5/21/98	RECEIVING BODY OF WATER: _____
SUBMITTING AGENCY NAME: _____			

REMARKS: _____	LOCATION: Site No. 6	FIELD ID NAME: _____

Habitat Parameter Score	Excellent	Good	Fair	Poor
Bottom Substrate/ Available Cover 30	Greater than 40% snags, logs, tree roots, emergent vegetation, leaf packs, undercut banks, rubble, or other stable habitat. 23-30 points	20% to 40% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Adequate habitat. 16-22 points	5% to 20% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Less than desirable habitat. 8-15 points	Less than 5% snags, logs, tree roots, emergent vegetation, leaf packs, etc. Lack of habitat is obvious. 0-7 points
Water Velocity 30	Max. observed; >0.3 m/sec. but < 1 m/sec 23-30 points	Max. observed; 0.1 to 0.3 m/sec 16-22 points	Max. observed; 0.05 to 0.1 m/sec 8-15 points	Max. observed; <0.05 m/sec, or spate occurring; > 2 m/sec 0-7 points
Artificial Channel/ Flow Alteration 14	No artificial channelization. Little activity (impervious surface) in watershed which would cause scouring during spates. 12-15 points	—	—	Artificially channelized, or scouring present during spates because of excess impervious surface in watershed. 0-3 points
Bank Stability 9	Stable. No evidence of erosion or bank failure. Little potential for future problems. 9-10 points	Moderately stable. Infrequent or small areas of erosion, mostly healed over. 6-8 points	Moderately unstable. Moderate areas of erosion, high erosion potential during floods. 3-5 points	Unstable. Many raw, eroded areas. Obvious bank sloughing. 0-2 points
Riparian Zone Vegetation Quality 10	Over 80% of streambank surfaces consist of native plants, classified as: bottomland hardwoods, understory shrubs, or non-woody macrophytes. 9-10 points	50% to 80% of riparian zone is vegetated, but one class of plants is not represented. 6-8 points	25% to 50% of riparian zone is vegetated, but one or two classes of plants are not represented. 3-5 points	Less than 25% of streambank surfaces are vegetated. Poor plant community (e.g. grass monoculture) present. 0-2 points

Adjustments 5	Add 5 points if cross-sectional area of flow is estimated to be greater than one square meter during periods of normal flow.	TOTAL SCORE 98

COMMENTS: Sampled area includes small area of littoral zone.

ANALYSIS DATE: 5/21/98	ANALYST: Gary Lightbourn	SIGNATURE: _____

unusually



June 17, 1998

SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT
P.O. BOX 6
SARASOTA FL 34230

CASH. Proj: HUNSON BAYCO

Attached are the results from 5 sample(s) received by the Environmental Quality Laboratory for analysis. The EQ Lab identification number is 99/1399/ 5204; please refer to this number when requesting information regarding these data. Also, this letter should be attached to any data submitted by you to regulatory agencies.

The Laboratory has an approved FDEP Comprehensive Quality Assurance Plan (#870264) which specifies the procedures used in the analyses of the above referenced samples. In addition, the Laboratory is certified by FDOH for the analysis of environmental and drinking water samples (#E85086 & 85116) respectively. These certification numbers should be referenced when attesting to regulatory agencies regarding the protocols of the analytical procedures used.

The Environmental Quality Laboratory is pleased to have served you and hopes to meet any future laboratory needs you may have.

Sincerely,

Ken Kondel
Laboratory Operations Manager





Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/17/98
Page: 1

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5204
Sample#: 6409

Station#/Location: 1 @ FRUITVILLE PHIL CR

Sample Date/Time: 05/15/1998 11:31

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	TOT. DISS. SOLIDS	364.000	mg/L	05/15/98	5.	EPA 160.1	
	TOT. SUSPENDED SOLIDS	7.200	mg/L	05/16/98	0.6	EPA 160.2	
Demands							
	BOD (5-DAY)	< 2.000	mg/L	05/17/98	2.	EPA 405.1	U
	CHEMICAL OXYGEN DEMAND	39.000	mg/L	06/01/98	4.	EPA 410.4	
Nutrients							
	TOT. NITRATE+NITRITE	0.027	mg/L	05/21/98	0.002	EPA 353.2	
	TOT. KJEL.N	0.904	mg/L	05/21/98	0.1	EPA 351.2	
	TOTAL PHOSPHORUS	0.213	mg/L	05/21/98	0.01	EPA 365.4	
	NITRITE	0.010	mg/L	05/15/98	0.002	EPA 353.2	
	NITRATE (CALC)	0.017	mg/L	05/21/98	0.002	EPA 353.2	
	TOTAL PHOSPHORUS (Diss)	0.096	mg/L	05/26/98	0.01	EPA 365.4	
Trace Metals							
	COPPER	3.280	ug/L	06/10/98	0.5	EPA 200.8/6020	
	LEAD	0.730	ug/L	06/10/98	0.5	EPA 200.8/6020	
	ZINC	29.500	ug/L	06/09/98	0.01	EPA 289.1	
	CADMIUM	< 1.500	ug/L	06/10/98	1.5	EPA 200.8/6020	U
	CHROMIUM	< 1.000	ug/L	06/10/98	1.	EPA 200.8/6020	U
Extractables							
	OIL & GREASE	< 1.000	mg/L	05/26/98	1.	EPA 1664	U

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 05/17/98
Page: 2

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5204
Sample#: 6410

Station#/Location: 2 BAHIA VISTA @ PHIL C

Sample Date/Time: 05/15/1998 10:52

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	TOT. DISS. SOLIDS	436.000	mg/L	05/15/98	5.	EPA 160.1	
	TOT. SUSPENDED SOLIDS	4.000	mg/L	05/16/98	0.6	EPA 160.2	
Demands							
	BOD(5-DAY)	< 2.000	mg/L	05/17/98	2.	EPA 405.1	U
	CHEMICAL OXYGEN DEMAND	30.000	mg/L	06/01/98	4.	EPA 410.4	
Nutrients							
	TOT. NITRAIR-NITRITE	0.015	mg/L	05/21/98	0.002	EPA 353.2	
	TOT. KJEL. N	0.931	mg/L	05/21/98	0.1	EPA 351.2	
	TOTAL PHOSPHORUS	0.356	mg/L	05/21/98	0.01	EPA 365.4	
	NITRITE	0.006	mg/L	05/15/98	0.002	EPA 353.2	
	NITRATE (CALC)	0.009	mg/L	05/21/98	0.002	EPA 353.2	
	TOTAL PHOSPHORUS (Diss)	0.225	mg/L	05/26/98	0.01	EPA 365.4	
Trace Metals							
	COPPER	3.370	ug/L	06/10/98	0.5	EPA 200.8/6020	
	LEAD	0.610	ug/L	06/10/98	0.5	EPA 200.8/6020	
	ZINC	35.000	ug/L	06/09/98	0.01	EPA 289.1	
	CADMIUM	< 1.500	ug/L	06/10/98	1.5	EPA 200.8/6020	U
	CHROMIUM	< 1.000	ug/L	06/10/98	1.	EPA 200.8/6020	U
Extractables							
	OIL & GREASE	< 1.000	mg/L	05/26/98	1.	EPA 1664	U

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/17/98
Page: 3

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5204
Sample#: 6411

Station#/Location: 3 HUDSON @ OSPREY AVE.

Sample Date/Time: 05/15/1998 9:43

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	TOT. DISS. SOLIDS	35100.000	mg/L	05/15/98	5. EPA	160.1	
	TOT. SUSPENDED SOLIDS	24.400	mg/L	05/16/98	0.6 EPA	160.2	
Demands							
	BOD(5-DAY)	2.930	mg/L	05/17/98	2. EPA	405.1	
	CHEMICAL OXYGEN DEMAND	120.000	mg/L	06/01/98	4. EPA	410.4	
Nutrients							
	TOT. NITRATE+NITRITE	0.016	mg/L	05/21/98	0.002 EPA	353.2	
	TOTAL NITROGEN	1.810	mg/L	05/21/98	0.1 EPA	351.2	
	TOTAL PHOSPHORUS	0.224	mg/L	05/21/98	0.01 EPA	365.4	
	NITRITE	0.008	mg/L	05/15/98	0.002 EPA	353.2	
	NITRATE (CALC)	0.008	mg/L	05/21/98	0.002 EPA	353.2	
	TOTAL PHOSPHORUS (Diss)	0.171	mg/L	05/26/98	0.01 EPA	365.4	
Trace Metals							
	COPPER	11.100	ug/L	06/10/98	0.5 EPA	200.8/6020	
	LEAD	20.300	ug/L	06/10/98	0.5 EPA	200.8/6020	
	ZINC	71.000	ug/L	06/09/98	0.01 EPA	289.1	
	CADMIUM	4.820	ug/L	06/10/98	1.5 EPA	200.8/6020	
	CHROMIUM	1.400	ug/L	06/10/98	1. EPA	200.8/6020	
Extractables							
	OIL & GREASE	< 1.000	mg/L	05/26/98	1. EPA	1664	U

NOTE: * See Attached Sheet for Data Qualifier Codes

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EQL

CHEMISTRY SAMPLE ANALYSIS

Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/17/98
Page: 4

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5204
Sample#: 6412

Station#/Location: 4 HUDSON @ ORANGE AVE.

Sample Date/Time: 05/15/1998 10:02

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	TOT. DISS. SOLIDS	36200.000	mg/L	06/07/98	5. EPA 160.1		
	TOT. SUSPENDED SOLIDS	26.800	mg/L	05/16/98	0.6 EPA 160.2		
Demands							
	BOD(5-DAY)	< 2.000	mg/L	05/17/98	2. EPA 405.1		U
	CHEMICAL OXYGEN DEMAND	550.000	mg/L	06/01/98	4. EPA 410.4		
Nutrients							
	TOT. NITRATE+NITRITE	0.005	mg/L	05/21/98	0.002 EPA 353.2		
	TOT. KJEL. N	0.637	mg/L	05/21/98	0.1 EPA 352.2		
	TOTAL PHOSPHORUS	0.159	mg/L	05/21/98	0.01 EPA 365.4		
	NITRITE	0.008	mg/L	05/15/98	0.002 EPA 353.2		
	NITRATE (CALC)	< 0.002	mg/L	05/21/98	0.002 EPA 353.2		U
	TOTAL PHOSPHORUS (Diss)	0.106	mg/L	05/26/98	0.01 EPA 365.4		
Trace Metals							
	COPPER	9.390	ug/L	06/10/98	0.5 EPA 200.8/6020		
	LEAD	16.700	ug/L	06/10/98	0.5 EPA 200.8/6020		
	ZINC	72.000	ug/L	06/09/98	0.01 EPA 289.1		
	CADMIUM	3.690	ug/L	06/10/98	1.5 EPA 200.8/6020		
	CHROMIUM	2.610	ug/L	06/10/98	1. EPA 200.8/6020		
Extractables							
	OIL & GREASE	< 1.000	mg/L	05/26/98	1. EPA 166.4		U

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.

EQL

CHEMISTRY SAMPLE ANALYSIS

Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/17/98
Page: 5

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5204
Sample#: 6413

Station#/Location: 5 I-75 @ MYAKKA

Sample Date/Time: 05/15/1998 12:19

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	TOT. DISS. SOLIDS	562.500	mg/L	05/15/98	5.	EPA 160.1	
	TOT. SUSPENDED SOLIDS	1.200	mg/L	05/16/98	0.6	EPA 160.2	
Demands							
	BOD(5-DAY)	<	2.000	mg/L	05/17/98	2.	EPA 405.1 U
	CHEMICAL OXYGEN DEMAND	48.000	mg/L	06/01/98	4.	EPA 410.4	
Nutrients							
	TOT. NITRATE+NITRITE	0.056	mg/L	05/21/98	0.002	EPA 353.2	
	TOT. KJEL. N	1.230	mg/L	05/21/98	0.1	EPA 351.2	
	TOTAL PHOSPHORUS	0.322	mg/L	05/21/98	0.01	EPA 365.4	
	NITRITE	0.008	mg/L	05/15/98	0.002	EPA 353.2	
	NITRATE (CALC)	0.048	mg/L	05/21/98	0.002	EPA 353.2	
	TOTAL PHOSPHORUS (Diss)	0.297	mg/L	05/26/98	0.01	EPA 365.4	
Trace Metals							
	COPPER	1.260	ug/L	06/10/98	0.5	EPA 200.8/6020	
	LEAD	3.630	ug/L	06/10/98	0.5	EPA 200.8/6020	
	ZINC	36.000	ug/L	06/09/98	0.01	EPA 289.1	
	CADMIUM	2.680	ug/L	06/10/98	1.5	EPA 200.8/6020	
	CHROMIUM	<	1.000	ug/L	1.	EPA 200.8/6020 U	
Extractables							
	OIL & GREASE	<	1.500	mg/L	05/26/98	1.	EPA 1664 U

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.

EQL

CHEMISTRY SAMPLE ANALYSIS

Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/17/98
Page: 6

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5204
Sample#: 6414

Station#/Location: 6 MYAKKAHATCHEE @ N.P.

Sample Date/Time: 05/15/1998 13:10

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	TOT. DISS. SOLIDS	445.000	mg/L	05/15/98	5.	EPA 160.1	
	TOT. SUSPENDED SOLIDS	6.000	mg/L	05/16/98	0.6	EPA 160.2	
Demands							
	BOD(5-DAY)	2.110	mg/L	05/17/98	2.	EPA 405.1	
	CHEMICAL OXYGEN DEMAND	36.000	mg/L	06/01/98	4.	EPA 410.4	
Nutrients							
	TOT. NITRATE+NITRITE	0.010	mg/L	05/21/98	0.002	EPA 353.2	
	TOT. NITROGEN	0.982	mg/L	05/21/98	0.1	EPA 351.2	
	TOTAL PHOSPHORUS	0.332	mg/L	05/21/98	0.01	EPA 365.4	
	NITRITE	0.008	mg/L	05/15/98	0.002	EPA 353.2	
	NITRATE (CALC)	< 0.010	mg/L	05/21/98	0.002	EPA 353.2	U
	TOTAL PHOSPHORUS (Diss)	0.308	mg/L	05/26/98	0.01	EPA 365.4	
Trace Metals							
	COPPER	< 0.500	ug/L	06/10/98	0.5	EPA 200.8/6020 U	
	LEAD	1.090	ug/L	06/10/98	0.5	EPA 200.8/6020	
	ZINC	36.000	ug/L	06/09/98	0.01	EPA 289.1	
	CADMIUM	< 1.500	ug/L	06/10/98	1.5	EPA 200.8/6020 U	
	CHROMIUM	< 1.000	ug/L	06/10/98	1.	EPA 200.8/6020 U	
Extractables							
	OIL & GREASE	< 1.000	mg/L	05/26/98	1.	EPA 1664	U

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



PRECISION QUALITY ASSURANCE REPORT

Customer: SARASOTA COUNTY GOVERNMENT

Report Date: 06/17/98

Sample#	Date	Parameter	Value 1	Value 2	R.P.D.	Units
5153	05/16/98	TOT. DISS. SOLIDS	1.04E4	1.05E4	0.957	mg/L
5260	05/23/98	TOT. DISS. SOLIDS	7.000	6.000	15.385	mg/L
6470	06/01/98	TOT. DISS. SOLIDS	218.000	219.000	0.458	mg/L
6501	05/15/98	TOT. DISS. SOLIDS	414.000	421.000	1.677	mg/L
7109	06/05/98	TOT. DISS. SOLIDS	12.000	9.000	28.571	mg/L
7285	06/05/98	TOT. DISS. SOLIDS	292.000	286.000	2.076	mg/L
5289	05/21/98	TOT. NITRATE+NITRITE	0.141	0.137	2.878	mg/L
5586	05/21/98	TOT. NITRATE+NITRITE	0.006	0.004	40.000	mg/L
5665	05/21/98	TOT. NITRATE+NITRITE	0.006	0.007	15.385	mg/L
6792	05/21/98	TOT. NITRATE+NITRITE	1.210	1.250	3.252	mg/L
6824	05/21/98	TOT. NITRATE+NITRITE	0.070	0.051	31.405	mg/L
7593	06/10/98	LEAD	0.740	0.770	3.974	ug/L
6409	06/09/98	ZINC	28.000	31.000	10.169	ug/L
6410	05/15/98	NITRITE	0.006	0.006	0.000	mg/L
6081	05/16/98	TOT. SUSPENDED SOLIDS	1.600	4.500	85.714	mg/L
6409	06/01/98	CHEMICAL OXYGEN DEMAND	36.500	42.000	15.385	mg/L
6415	06/10/98	COPPER (Dry Wt.)	6.880	6.910	0.435	mg/kg
6426	06/10/98	COPPER (Dry Wt.)	3.580	3.490	2.546	mg/kg
6509	06/10/98	COPPER (Dry Wt.)	255.000	249.000	2.381	mg/kg
6415	06/10/98	LEAD (Dry Wt.)	15.300	15.200	0.656	mg/kg
6426	06/10/98	LEAD (Dry Wt.)	37.700	37.300	1.067	mg/kg
6509	06/10/98	LEAD (Dry Wt.)	21.800	21.500	1.386	mg/kg
6509	06/10/98	CADMIUM (Dry Wt.)	2.650	2.710	0.741	mg/kg
6415	06/10/98	CHROMIUM (Dry Wt.)	9.670	9.700	0.310	mg/kg
6426	06/10/98	CHROMIUM (Dry Wt.)	11.300	11.100	1.786	mg/kg
6509	06/10/98	CHROMIUM (Dry Wt.)	11.600	11.300	2.620	mg/kg



QUALITY ASSURANCE REPORT
SPIKE RECOVERY

Customer: SARASOTA COUNTY GOVERNMENT

Report Date: 06/17/98

Sample	Date	Parameter	Spike Added	Spike Diff.	%Spike Recovery	Units
529C	05/21/98	TOT. NITRATE+NITRITE	0.247	0.205	83	mg/L
6613	05/21/98	TOT. NITRATE+NITRITE	0.247	0.184	74	mg/L
5891	05/21/98	TOT. KJEL. N	0.500	0.520	104	mg/L
6414	05/17/98	BOD (5-DAY)	2.000	2.220	111	mg/L
759J	06/10/98	LEAD	10.000	9.945	99	ug/L
6410	06/09/98	ZINC	300.000	311.000	104	ug/L
6494	05/15/98	NITRITE	0.250	0.239	96	mg/L
6487	06/01/98	CHEMICAL OXYGEN DEMAND	50.000	54.000	108	mg/L
3796	06/10/98	COPPER (Dry Wt.)	100.000	100.000	100	mg/kg
6426	06/10/98	COPPER (Dry Wt.)	100.000	97.470	97	mg/kg
3796	06/10/98	LEAD (Dry Wt.)	100.000	83.100	83	mg/kg
6426	06/10/98	LEAD (Dry Wt.)	100.000	102.500	102	mg/kg
3796	06/10/98	CADMIUM (Dry Wt.)	100.000	105.840	106	mg/kg
3796	06/10/98	CHROMIUM (Dry Wt.)	100.000	105.100	105	mg/kg
6426	06/10/98	CHROMIUM (Dry Wt.)	100.000	101.800	102	mg/kg

Environmental Quality Laboratory, Inc.
1009 Tamiami Trail, Port Charlotte, FL 33953

Sample Information

EOL

Phone (941) 625-3137
Fax (941) 629-7467

PD # 1902088

Analysis Request

page 1 of 1

Client: Sarasota Co.	Q New	Phone:	Preserved in Lab
Project: Hudson Bayou		FAX:	Minerals
Lab: 98113991 5304		HRS Form?	Nutrients
Address:		☐ Yes ☒ No	NO2
			Metals
			Bacteria
			COD
			Oil + Grease
			TP-Di
			# of Containers

EOL Sample No.	Sample Description	Collection Date	Collection Time	Analysis
10409	1. Lake & Fruitville Phosphate	5/15/98	11:31	V
10410	2. Bahia Vista & Phosphate Creek	5/15/98	10:52	V
10411	3. Hudson & Orange Ave.	5/15/98	09:23	V
10412	4. Hudson & Orange Ave.	5/15/98	10:02	V
10413	5. I-75 & Magalloway Lake	5/15/98	12:19	V
10414	6. Magalloway Lake & N. I-75	5/15/98	12:10	V

Adrianus A. PSCA, collecting project for Sarasota Co. Chain of Custody

Transfer	Released by:	Date	Time	Received by:
1st	<i>[Signature]</i>	5/15/98	11:34	<i>[Signature]</i>
2nd				
3rd				
4th				
5th				

Tolson & Co. Consultants

Environmental Quality Laboratory, Inc
Data Qualifier Codes (Page 1)

Symbol	Meaning
A	Value reported is the mean (average) of two or more determinations. This code shall be used if the results of two or more discrete and separate samples are averaged. These samples shall have been processed and analyzed (e.g. laboratory replicate samples, field duplicates, etc.) independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate. Under most conditions, replicate values shall be reported as individual analyses.
B	Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies exceeds the method indicated ideal ranges which are: Total Coliforms: 20-80 colonies Fecal Coliforms: 20-60 colonies
F	When reporting species: F indicates the female sex
H	Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e. field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
J	Estimated value; value not accurate. This code shall be used in the following instances: 1. surrogate recovery limits have been exceeded; 2. no known quality control criteria exists for the component; 3. the reported value failed to meet the established quality control criteria for either precision or accuracy; 4. the sample matrix interfered with the ability to make any accurate determination; or 5. if the data is questionable because of improper laboratory or field protocols (e.g. composite sample was collected instead of a grab sample). Note: a "J" value shall be accompanied by justification for its use. A "J" value shall not be used if another code applies (e.g., K, L, M, T, V, Y, D)
K	Off-scale low. Actual value is known to be less than the value given. This code shall be used if: 1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or 2. The value is known to be less than the reported value based on sample size, dilution or some other variable. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
L	Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
M	When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below. When reporting Oxygen Reduction Potential or Temperature: indicates a negative value When reporting Species: indicates male sex.
N	Presumptive evidence of presence of material. This qualifier shall be used if: 1. the component has been tentatively identified based on mass spectral library search; 2. there is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e. presence of analyte was not confirmed by alternate procedures).
O	Sampled, but analysis lost or not performed. Note: if reporting data to the U.S. Environmental Protection Agency Water Quality Storage and Retrieval (STORET) data base, a numerical value must be entered. Such values are not meaningful and shall not be used.

Data Qualifier Codes (Page 2)

Symbol	Meaning
Q	Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
U	Indicates that the component was analyzed for but not detected. This shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
V	Indicates that analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.
Y	The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC), the numeric value represents the filtration volume.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
?	Data is rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not analyzed due to interference. Note: If reporting data to the U.S. Environmental Protection Agency Water Quality Storage and Retrieval (STORET) data base, a numerical value must be entered. Such values are not meaningful and shall not be used.

If more than one code applies, and the data is to be entered in STORET, only one code shall be reported. The code shall be selected based on the following hierarchy:

?
 *, O
 Y
 V
 H
 B, K, L, M, I, T, Z, U, N, Q
 A, P
 J

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

D	Measurement was made in the field (i.e. in situ). This applies to any value (ex. pH, specific conductance, etc.) that was obtained under field conditions using approved analytical methods. Note: When data is to be entered into STORET, and parameter code specifies a field measurement (e.g. "Field pH"), this code is not required.
E	Indicates that extra samples were taken at composite stations.
R	Significant rain in the past 48 hours. This code shall be used where the rainfall might contribute to a lower than normal value.
I	Data deviates from historically established concentration ranges.





June 15, 1999

SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT
P.O. BOX 8
SARASOTA FL 34230

Cost. Proj: HUDSON BAYOU

Attached are the results from 13 sample(s) received by the Environmental Quality Laboratory for analysis. The EQ Lab identification number is 98/1399/ 5205; please refer to this number when requesting information regarding these data. Also, this letter should be attached to any data submitted by you to regulatory agencies.

The Laboratory has an approved FDEP Comprehensive Quality Assurance Plan (#870264) which specifies the procedures used in the analyses of the above referenced samples. In addition, the Laboratory is certified by FDOH for the analysis of environmental and drinking water samples (#E85086 & 85116) respectively. These certification numbers should be referenced when attesting to regulatory agencies regarding the protocols of the analytical procedures used.

The Environmental Quality Laboratory is pleased to have served you and hopes to meet any future laboratory needs you may have.

Sincerely,

Ken Kondel
Laboratory Operations Manager





Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 1

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6415

Station#/Location: 1 H-1

Sample Date/Time: 05/14/1998 14:23

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS (Dry Wt.)	75.600	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.040	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.350	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON (Dry Wt.)	9300.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	6.890	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	15.300	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	15.000	mg/kg	06/10/98	0.062	SW 6020	
	CHROMIUM (Dry Wt.)	9.680	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	2160.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 2

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6416

Station#/Location: 2 H-2

Sample Date/Time: 05/14/1998 13:19

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS (Dry Wt.)	85.500	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.020	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.350	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON (Dry Wt.)	4800.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	6.180	mg/kg	06/10/98	0.023	SW 6020	
	LEAD (Dry Wt.)	14.600	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	37.000	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	8.270	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	3320.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes
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Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 3

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6417

Station#/Location: 3 H-3

Sample Date/Time: 05/14/1998 12:48

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS(Dry Wt.)	70.900	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.090	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.750	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON(Dry Wt.)	20500.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	20.500	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	76.800	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	58.800	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	24.800	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	3680.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes
Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 4

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6418

Station#/Location: 4 H-4

Sample Date/Time: 05/14/1998 14:02

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS (Dry Wt.)	74.500	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.070	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.800	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON (Dry Wt.)	14000.000	mg/kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	17.100	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	37.100	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	32.300	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	13.100	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	2410.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 5

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6419

Station#/Location: 5 H-5

Sample Date/Time: 05/14/1998 13:02

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS(Dry Wt.)	53.000	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.155	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.405	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON(Dry Wt.)	50000.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	29.600	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	181.000	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	150.000	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	53.600	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	3350.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 6

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6420

Station#/Location: 6 H-6

Sample Date/Time: 05/14/1998 11:44

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS(Dry Wt.)	67.000	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.070	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.075	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON(Dry Wt.)	20000.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	9.400	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	115.000	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	441.000	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	147.000	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	950.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 7

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6421

Station#/Location: 7 H-7

Sample Date/Time: 05/14/1998 12:15

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS(Dry Wt.)	78.200	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.060	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.630	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON(Dry Wt.)	5700.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	7.390	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	13.600	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	27.800	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	6.550	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	1680.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 8

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6422

Station#/Location: 8 H-8

Sample Date/Time: 05/14/1998 11:13

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS(Dry Wt.)	76.600	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.020	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.110	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON(Dry Wt.)	5000.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	1.700	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	6.370	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	15.300	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	2.050	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	1110.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 9

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6423

Station#/Location: 9 H-9

Sample Date/Time: 05/14/1998 10:58

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS (Dry Wt.)	66.300	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.060	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.030	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON (Dry Wt.)	12000.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	5.770	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	10.100	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	35.500	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	3.150	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	675.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 10

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6424

Station#/Location: 10 H-10

Sample Date/Time: 05/14/1998 9:45

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS (Dry Wt.)	77.000	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.040	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.750	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON (Dry Wt.)	13000.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	3.940	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	57.500	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	32.900	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	4.260	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	1190.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes
Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 11

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6425

Station#/Location: 11 H-11

Sample Date/Time: 05/14/1998 10:31

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS (Dry Wt.)	80.700	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.010	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	0.020	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON (Dry Wt.)	6700.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	0.590	mg/kg	05/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	3.730	mg/kg	05/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	6.480	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	3.130	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	2690.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes
Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 12

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6426

Station#/Location: 12 H-12

Sample Date/Time: 05/14/1998 10:10

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS(Dry Wt.)	74.000	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.040	%	06/08/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	1.370	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON(Dry Wt.)	9200.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	3.530	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	37.500	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	35.900	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	11.200	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	6480.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes

Reported results not valid without accompanying signature page.



Customer: SARASOTA COUNTY GOVERNMENT
ATTN: FINANCE DEPARTMENT

Report Date: 06/15/98
Page: 13

Customer Project: HUDSON BAYOU

Labid: 98/ 1399/ 5205
Sample#: 6427

Station#/Location: 13 DUPLICATE

Sample Date/Time: 05/14/1998

Group	Analysis	Result	Units	Analysis Date	MDL	Method	*DQ Code
Minerals							
	% SOLIDS(Dry Wt.)	72.300	%	05/16/98	0.01	EPA 160.3	
Nutrients							
	% NITROGEN (CALC)	0.060	%	06/09/98	0.01	EPA 351.2	
	% PHOSPHORUS (CALC)	1.850	%	06/09/98	0.01	EPA 365.4	
	TOT.ORGANIC CARBON(Dry Wt.)	16000.000	mg/Kg	05/26/98	500.	EPA SW-846	
Trace Metals							
	COPPER (Dry Wt.)	10.800	mg/kg	06/10/98	0.029	SW 6020	
	LEAD (Dry Wt.)	27.600	mg/kg	06/10/98	0.02	SW 6020	
	ZINC (Dry Wt.)	20.700	mg/kg	06/10/98	0.068	SW 6020	
	CHROMIUM (Dry Wt.)	9.190	mg/kg	06/10/98	0.023	SW 6020	
	ALUMINUM (Dry Wt.)	1730.000	mg/kg	06/12/98	31.25	SW846 7020/305	

NOTE: * See Attached Sheet for Data Qualifier Codes
Reported results not valid without accompanying signature page.



PRECISION QUALITY ASSURANCE REPORT

Customer: SARASOTA COUNTY GOVERNMENT

Report Date: 06/15/98

Sample#	Date	Parameter	Value 1	Value 2	R.P.D.	Units
6419	06/09/98	% NITROGEN (CALC)	0.150	0.160	6.452	%
6419	06/09/98	% PHOSPHORUS (CALC)	0.430	0.480	12.346	%
6420	06/09/98	% PHOSPHORUS (CALC)	0.080	0.070	13.333	%
6423	06/10/98	% SOLIDS (Dry Wt.)	64.900	67.700	4.223	%
6415	06/10/98	COPPER (Dry Wt.)	6.880	6.910	0.435	mg/kg
6426	06/10/98	COPPER (Dry Wt.)	3.580	3.490	2.546	mg/kg
6509	06/10/98	COPPER (Dry Wt.)	255.000	249.000	2.381	mg/kg
6415	06/10/98	LEAD (Dry Wt.)	15.300	15.200	0.656	mg/kg
6426	06/10/98	LEAD (Dry Wt.)	37.700	37.300	1.067	mg/kg
6509	06/10/98	LEAD (Dry Wt.)	21.800	21.500	1.386	mg/kg
6415	06/10/98	ZINC (Dry Wt.)	15.000	15.900	0.000	mg/kg
6426	06/10/98	ZINC (Dry Wt.)	35.700	36.100	1.114	mg/kg
6509	06/10/98	ZINC (Dry Wt.)	766.000	764.000	0.261	mg/kg
6415	06/10/98	CHROMIUM (Dry Wt.)	9.670	9.700	0.310	mg/kg
6426	06/10/98	CHROMIUM (Dry Wt.)	11.300	11.100	1.786	mg/kg
6509	06/10/98	CHROMIUM (Dry Wt.)	11.600	11.300	2.620	mg/kg
5197	06/12/98	ALUMINUM (Dry Wt.)	4.06E3	4.31E3	5.974	mg/kg
6416	06/12/98	ALUMINUM (Dry Wt.)	3.39E3	3.25E3	4.217	mg/kg



QUALITY ASSURANCE REPORT
SPIKE RECOVERY

Customer: SARASOTA COUNTY GOVERNMENT

Report Date: 06/15/98

Sample	Date	Parameter	Spike Added	Spike Diff.	%Spike Recovery	Units
3796	06/10/98	COPPER (Dry Wt.)	100.000	100.000	100	mg/kg
6426	06/10/98	COPPER (Dry Wt.)	100.000	97.470	97	mg/kg
3796	06/10/98	LEAD (Dry Wt.)	100.000	83.100	83	mg/kg
6426	06/10/98	LEAD (Dry Wt.)	100.000	102.500	102	mg/kg
3796	06/10/98	ZINC (Dry Wt.)	100.000	105.000	105	mg/kg
6426	06/10/98	ZINC (Dry Wt.)	100.000	101.100	101	mg/kg
3796	06/10/98	CHROMIUM (Dry Wt.)	100.000	105.100	105	mg/kg
6426	06/10/98	CHROMIUM (Dry Wt.)	100.000	101.800	102	mg/kg
6417	06/12/98	ALUMINUM (Dry Wt.)	6250.000	7020.000	112	mg/kg



OTE:

Submit Material Safety Data Sheets with shipment for substances found on the current Florida Toxic Substances List, in accordance with Florida Statutes, Chapter 402, Section 6(1).

6/03/99	BID NO. PS #10181	REQUISITION NO. R035684	DELIVERY REQUIRED BY	PAYMENT TERMS NET 30	FRM. TERMS: F.O.B.

153451

CAMP DESSER & MOORE INC
201 MONTGOMERY AVE
SARASOTA, FL 34233-1500

DELIVER
TO

TRANSFORMATION REFORMS
STORMWATER MANAGEMENT
PAGE 10-6
1501 GRIFFITHS ROAD
SARASOTA, FL 34237

QUANTITY	U/M	CLASS	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	0	592400	PERIOD SEASONAL LOGS ESTIMATES FOR WATERSHEDS IN SARAGUZA COUNTRY REQUIRED BY APPEL PERMIT	7,500.00	7,500.00
			58610401 500313	7,500.00	

RECEIVED
TRANSPORTATION
FISCAL SERVICES
JUN 7 8 28 AM '99

T OF MEASURE CODE

T OF MEASURE CODE		10-WEEK
1ACH	07- FEET	13-TON
2OZ.	08-SQ. FT	20-MONTH
3EAM	09-YARD	21-TOO
3OX	10-SQ. YD.	22-1000
3ARTON	11-CU. YD.	23-PKG
3ASE	12-LBS.	24-PAIR
		26-HOUR

THE COUNTY OF SARASOTA IS EXEMPT FROM STATE SALES TAX,
USE TAX AND FEDERAL EXCISE TAXES. STATE SALES AND USE
TAX CERTIFICATE NO. 55-05-043582-53C

TOTAL

7.500

CASE	12-LBS.	18-DAY	26-HOUR
I HEREBY CERTIFY THAT I AM AUTHORIZED TO APPROVE THIS EXPENDITURE AND THAT THE FUNDS ARE BEING SPENT FOR A PUBLIC PURPOSE, IN CONFORMANCE WITH COUNTY PURCHASING PROCEDURES AND VENDOR CONTRACTS, AND WITHOUT OVERSPENDING THE APPLICABLE ACCOUNT OR FUND OF THE COUNTY BUDGET. I FURTHER CERTIFY THAT THE MATERIALS OR SERVICES HAVE BEEN RECEIVED, INSPECTED AND FOUND TO BE SATISFACTORY FOR THE PURPOSE FOR WHICH THEY WERE PURCHASED.			

[illegible]

MS4 NPDES Permitting - Estimation of Seasonal Loadings and Event Mean Concentrations

Sarasota County received a permit from the Environmental Protection Agency (EPA) in December 1994 to operate its municipal stormwater system in accordance with NPDES regulations. Reporting requirements are submitted to EPA in annual reports within six months of the subsequent year. Following 1998, Sarasota County is required to submit its forth annual report by June, 1999. By permit requirement, Part V, Condition A (and modification issued October 12, 1995), *"a seasonal pollutant load and event mean concentration (EMC) estimates for a representative storm shall be provided to EPA. The pollutant load and EMC estimates are to be reported to EPA for each major watershed rather than for each major outfall".*

The COUNTY intends to employ the services of Camp Dresser & McKee Inc. (ENGINEER) to calculate these seasonal pollutant loads and EMC. The ENGINEER shall complete this effort in accordance with the following scope of services.

Scope of Services

The ENGINEER shall utilize the best available data and computer program to effectively meet the requirements of EPA Permit No. FLS000004 and modification dated October 12, 1995. With this in mind, the ENGINEER shall perform the following tasks.

Task 1

The ENGINEER shall obtain 20-years of local rainfall data from Southwest Florida Water Management District.

Task 2

The ENGINEER shall utilize the watershed program utilized in the Part II NPDES permit application (dated May 1993) submitted and approved by EPA as a basis for calculating the seasonal loads and the associated EMCs. The original permit application estimated total annual loadings. To be consistent with the permit application, the ENGINEER shall utilize the original BMP efficiencies and pollutant loadings. The COUNTY will provide updated land use and major BMP coverages from basin master plans completed since May, 1993, and the ENGINEER shall include these in the model. Loadings will then be calculated for both a dry season and wet season utilizing existing assumptions regarding pollutant loads per inch of rainfall. EMCs shall be calculated for each watershed for these seasonal loads.

Since the Part 2 NPDES permit application was submitted in May 1993, the Watershed Management Model (WMM) used to estimate annual loadings was enhanced and converted from a Lotus-based platform to a stand-alone model. This new and improved model does not require commercial software to operate. The ENGINEER shall transfer the Sarasota County watershed information from the old model into this updated model and use this newer program to calculate the seasonal loads and EMCs. The ENGINEER will provide a copy of the model, model documentation and the Sarasota County data to the COUNTY. Training is not included in this assignment.

Task 3

The ENGINEER will provide the COUNTY with the calculated seasonal pollutant loads and EMCs in tabular form by individual watershed within 30 days of Notice to Proceed. The ENGINEER will review these results with the COUNTY. Upon COUNTY concurrence, the ENGINEER shall finalize and produce 10 copies of the results for the COUNTY to include in the annual report.

Permit Application

**SARASOTA COUNTY PERMITTEES
NPDES PERMIT FOR
MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

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**SARASOTA COUNTY PERMITTEES
NPDES PERMIT FOR
MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

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(continued)

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Part VIII. DEFINITIONS

PART I.

DISCHARGES AUTHORIZED UNDER THIS PERMIT

- A. **Permit Area.** This permit covers all areas located within the political boundary of Sarasota County and the portion of the Town of Longboat Key within Manatee County served by municipal separate storm sewer systems owned or operated by the permittees identified in Part I.C.
- B. **Authorized Discharges.** Except for discharges prohibited under Part I.D., this permit authorizes all existing or new storm water point source discharges to waters of the United States from those portions of the Municipal Separate Storm Sewer System (MS4) owned or operated by the permittees.
- C. **Permittees.**

The following entities are permittees subject to the conditions of this permit:

- Sarasota County
- Town of Longboat Key*
- City of North Port
- City of Sarasota
- City of Venice
- Florida Department of Transportation, District One

** Permit coverage includes the entire Town of Longboat Key which is located in both Sarasota and Manatee Counties*

References to "permittee" in this permit includes each of the entities above.

1. Each permittee is individually responsible for:
 - a. Compliance with permit conditions relating to discharges from portions of the MS4 where they are the operator;
 - b. Storm water management program implementation on portions of the MS4 where they are the operator;
 - c. Where permit conditions are established for specific portions of the MS4, the permittee need only comply with the permit conditions relating to those portions of the MS4 for which they are the operator; and
 - d. A plan of action to assume responsibility for implementation of storm water management and monitoring programs on their portions of the MS4 should inter-jurisdictional agreements allocating responsibility between permittees be dissolved or in default. (See Part II.G.3., page

20 of this permit also.)

2. Each permittee is jointly responsible for:
 - a. Submission of annual reporting requirements as specified in Part V.C. (ANNUAL REPORT), page 49;
 - b. Collection of monitoring data as required by Part V.B., page 47, according to such agreements as may be established between permittees;
 - c. Insuring implementation of system-wide management program elements, including any system-wide public education efforts.
3. Specific permittees are jointly liable for permit compliance on portions of the MS4:
 - a. Where operational or storm water management program implementation authority over portions of the MS4 has been transferred from one permittee to another in accordance with legally binding interagency or inter-jurisdictional agreements, both the owner and operator are jointly responsible for permit compliance on those portions of the MS4, unless specific responsibility provisions have been otherwise outlined in said agreements.

D. Limitations on Coverage. Section 402(p)(3)(B)(ii) of the Clean Water Act specifically requires EPA to include within this permit an effective prohibition on non-storm water entering the MS4. The following discharges are not authorized by this permit:

1. *Non-storm Water:* discharges of non-storm water, except where such discharges are:
 - a. in compliance with a separate NPDES permit (or the discharger has applied for such permit); or
 - b. identified by and in compliance with Part II.A.7.a., page 9 of this permit.
2. *Spills:* discharges of material resulting from a spill, except where such discharges are:
 - a. the result of an Act of God where reasonable and prudent measures have been taken to minimize the impact of the discharge; or
 - b. an emergency discharge required to prevent imminent threat to human health or prevent severe property damage, provided reasonable and prudent measures have been taken to minimize the impact of the discharge.

PART II.

STORM WATER POLLUTION PREVENTION AND MANAGEMENT PROGRAMS

Each permittee covered by this permit shall contribute to the development, revision, and implementation of a comprehensive Storm Water Management Program (SWMP) including pollution prevention measures, treatment or removal techniques, storm water monitoring, use of legal authority, and other appropriate means to control the quality of storm water discharged from the Municipal Separate Storm Sewer System (MS4). The SWMP shall be implemented in accordance with Section 402(p)(3)(B) of the Clean Water Act and 40 CFR Part 122.26.

Controls and activities in the SWMP shall identify areas of permittee jurisdiction, applicability, or specific area basis. The SWMP shall include controls necessary to effectively prohibit the discharge of non-storm water into municipal separate storm sewers and reduce the discharge of pollutants from the MS4 to the MEP and shall be consistent with State Water Policy.

Compliance with this SWMP shall be reported annually in the ANNUAL REPORT discussed in Part V.C. on page 49 of this permit.

The SWMP shall cover the term of the permit and shall be updated as necessary, or as required by the Director, to ensure compliance with this statutory requirement of Clean Water Act Section 402(p)(3)(B). Modifications to the SWMP shall be made in accordance with Part II.G. of this permit. Compliance with the SWMP and the compliance schedules in Part III shall be deemed in compliance with Parts II.A. and II.B. of the permit. **The Storm Water Management Program submitted by the permittees in the July 23, 1993, Part 2 Application, and all approved updates, are hereby incorporated into this permit by reference and thus are conditions of this permit. FDOT's Statewide Storm Water Management Program for Part 2 EPA NPDES-MS4 Permit Application dated June 1993 and all approved updates, are hereby incorporated into this permit by reference and thus are conditions of this permit.** Specific components from these Storm Water Management Programs are identified in Parts II and III to serve as measurable enforcement permit conditions. Compliance dates specified in Part III of the permit shall take precedence over compliance dates which may have been proposed in Part 1 or Part 2 of the municipal applications from the permittees.

Implementation of the SWMP may be achieved through participation with other permittees, public agencies, or private entities in cooperative efforts to satisfy the requirements of Part II and Part III of the permit in lieu of creating duplicate program elements for each individual permittee. The SWMP, taken as a whole, shall achieve the "effective prohibition" and "MEP" standards from Section 402(p)(3)(B) of the Clean Water Act, and shall be consistent with State Water Policy pursuant to the Florida Administrative Code (FAC)§62-40.420(1)-(4).

A. Storm Water Management Program (SWMP) Requirements.

1. *Structural Controls and Storm Water Collection System Operation:* The MS4 and any storm water structural control shall be operated in a manner to reduce the discharge of pollutants to the MEP and shall be consistent with State Water Policy.
 - a. The permittees listed in Table II.A.1.a. on pages 4 and 5 own and/or operate the structural controls identified. The maintenance activities identified for the structural controls in Table II.A.1.b. on page 6 of this permit represent suggested maintenance practices that can be implemented on an as needed basis. In addition, each shall maintain an internal record keeping system to track inspections and maintenance activities performed during the permit term. If these activities are performed by others under a contractual agreement, then the permittee shall retain copies of the contractual agreement which specifies the maintenance activities to be performed and the schedule of frequency. Inspection and maintenance records shall be retained by the permittees in accordance with Part V.G. on page 58 of this permit. Annual evaluations shall be made to assess the appropriateness of the inspection and maintenance schedule and to ensure the optimization of equipment use. A summary of the annual evaluation shall be included within each ANNUAL REPORT required under Part V.C. on page 49 of this permit.

TABLE II.A.1.a.		
PERMITTEE / LABOR SOURCE(S)	STRUCTURAL CONTROL	TOTAL NO. MAINTAINED
SARASOTA COUNTY / Prison Labor and Contract Staff	Wet Retention Areas (Maintained Lakes)	85
	Storm Water Treatment Ponds	62
	Channel Control Structures	51
	Channels	500 miles

CITY OF SARASOTA / Interlocal agreement with Sarasota County	Wet Retention Areas (Maintained Lakes)	4
	Storm Water Treatment Ponds	11
	Channels	30 miles

CITY OF VENICE / City of Venice Parks Dept. and Maintenance Dept.	Storm Water Treatment Ponds	7
	Channels	5 miles
CITY OF NORTH PORT / Maintenance Dept.	Wet Retention Areas (Maintained Lakes)	1
	Storm Water Treatment Ponds	190
	Channel Control Structures	10
	Channels	76 miles
FDOT / Maintenance Management System	Storm Water Treatment ~~Ponds~~ <u>Systems</u>	37 ~~2~~

**TABLE II.A.1.b.
MAINTENANCE SCHEDULE FOR STRUCTURAL CONTROLS**

STRUCTURAL CONTROL	FREQUENCY OF INSPECTION	FREQUENCY OF MAINTENANCE	MAINTENANCE ACTIVITY
Dry Retention Areas	Semi-Annually	As Needed	◦Mowing and invasive plant species removal ◦Sediment and grass clippings removal, including proper sediment disposal ◦Aeration of bottom (dry/infiltration-type ponds) ◦Stabilization of eroded bank areas ◦Litter and debris removal ◦Back flush underdrains (where applicable)
Wet Retention Areas (Maintained Lakes)	Semi-Annually	As Needed	◦Mowing and invasive plant species removal ◦Stabilization of eroded bank areas ◦Litter and debris removal
		As necessary to ensure that the depth of sediments does not exceed 1/3 of the design storage volume	◦Sediment and grass clippings removal, including proper sediment disposal ◦Monitor sediment accumulations and remove when 1/3 of the storage volume is filled
	Every 18 Months	As Needed	◦Back flush underdrains (where applicable)
Channel Control Structures	Quarterly	As Needed	◦Litter and debris removal ◦Sediment removal with proper sediment disposal
Channels	Annually - to determine priority	As Needed	◦Litter and debris removal ◦Mowing and invasive plant species removal ◦Stabilization of eroded bank areas

		5 Year Revolving Schedule	oSediment removal with proper sediment disposal provided the original cross-section is not exceeded

1. *Structural Controls and Storm Water Collection System Operation:* (continued)
 - b. Additionally, to satisfy the requirements of this section, the permittees shall continue develop and implement the Storm Water Management Programs identified in Part III.A.1. on pages 21 and 22 of this permit.
2. *Areas of New Development and Significant Redevelopment:* A comprehensive master planning process (or equivalent) shall be implemented to reduce, to the MEP, the discharge of pollutants from MS4s, which receive discharges from areas of new development and significant redevelopment, after construction is completed. The master planning process shall limit the increases in the discharge of pollutants in storm water as a result of new development, and shall reduce the discharge of pollutants in storm water from redeveloped areas, and shall be consistent with State Water Policy.
 - a. To satisfy the requirements of this section, the permittees shall continue implement the Storm Water Management Programs identified in Part III.A.2. on page 23 of this permit.
3. *Roadways:* Public streets, roads, and highways shall be operated and maintained in a manner to reduce to the MEP the discharge of pollutants and shall be consistent with State Water Policy.
 - a. As per the schedule identified in Part III.A.3. on page 24 of this permit, the permittees shall develop and implement standard road repair practices to reduce the pollutants in storm water runoff from areas associated with road repair and maintenance. The program ~~developed~~ shall include practices such as limiting the amount of soil disturbance to the immediate area under repair and scheduling potential pollutant-causing routine repair work during dry seasons, when possible. The program shall establish procedures that address spill prevention, material management practices, and good housekeeping measures at all municipal equipment yards and maintenance shops that support road maintenance activities.
 - b. Additionally, to satisfy the requirements of this section, the permittees shall continue implement the Storm Water Management Programs identified in Part III.A.3. on pages 24 and 25 of this permit.

4. *Flood Control Projects:* Water quality impacts on receiving water shall be assessed for all flood management projects identified in the basin master planning process (or comparable planning process). The feasibility of retrofitting existing structural flood control devices to provide additional pollutant removal from storm water shall be evaluated.
 - a. To satisfy the requirements of this section, the permittees shall continue ~~implement~~ the Storm Water Management Programs identified in Part III.A.4. on page 26 of this permit.
5. *Municipal waste treatment, storage, or disposal facilities not covered by an NPDES storm water permit:* The permittees shall implement a program to identify measures to monitor and reduce pollutants in storm water discharges from facilities that handle municipal waste, including sewage sludge.
 - a. To satisfy the requirements of this section, the permittees shall ~~develop and~~ implement a program to reduce pollutants in the storm water discharges from municipally-operated solid waste transfer stations, maintenance and storage yards for waste transportation fleets and equipment, publicly owned treatment works (POTWs), and sludge application and/or disposal sites which are not covered by NPDES storm water permits. This program shall be ~~developed and~~ implemented in accordance with the schedule identified in Part III.A.5. on page 27 of this permit. The ~~initial phase of the program developed~~ shall contain procedures to evaluate, inspect, and monitor these sites. Based upon the evaluations, inspections and monitoring performed, priorities and procedures for implementing control measures for pollutant reduction at these sites shall be implemented ~~developed~~. Monitoring methodology used during the initial investigative period may be relaxed from standard protocol and may be based on experience gained during actual field activities. The goal of this investigative portion is to actively identify areas within these sites with poorer quality discharges during storm events, so that those areas will be given priority when implementing control measures.
6. *Pesticide, Herbicide, and Fertilizer Application:* Each permittee shall implement controls to reduce, to the MEP and shall be consistent with State Water Policy, the discharge of pollutants related to the storage and application of pesticides, herbicides, and fertilizers applied, by employees or contractors, to public right of ways, parks, and other municipal property. Permittees with jurisdiction over lands shall implement programs to encourage the reduction of the discharge of pollutants related to application and distribution of pesticides, herbicides, and fertilizers.
 - a. To satisfy the requirements of this section, the permittees shall continue ~~implement~~ the Storm Water Management Programs identified in Part

III.A.6. on pages 28 and 29 of this permit.

7. *Illicit Discharges and Improper Disposal:* The permittees shall ~~implement an~~ continue the ongoing program to detect and eliminate (or require the discharger to the MS4 to eliminate) illicit discharges and improper disposal into the storm sewer system.

a. *Inspection, Ordinances, and Enforcement Measures:* Non-storm water discharges to the MS4 shall be effectively prohibited by the permittees through the use of inspections, ordinances, and enforcement. The permittees, however, may allow the following non-storm water discharges to the MS4 where they are not identified as a source of pollutants to waters of the United States:

- water line flushing;
- landscape irrigation;
- diverted stream flows;
- rising ground waters;
- uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20)) to separate storm sewers;
- uncontaminated pumped ground water;
- discharges from potable water sources;
- foundation drains;
- air conditioning condensate;
- irrigation water;
- springs;
- water from crawl space pumps;
- footing drains;
- lawn watering;
- individual residential car washing;
- flows from riparian habitats and wetlands;
- dechlorinated swimming pool discharges;
- street wash waters; ~~and~~
- discharges or flows from emergency fire fighting activities; and
flows from uncontaminated roof drains.

To satisfy the requirements of this section, the permittee(s) identified in Part III.A.7.a. on pages 30 and 31 of the permit shall:

- (1) ~~Identify those of the non-storm water discharges listed under Part III.A.7.a. (above), as well as any other non-storm water discharges, which will be~~ Continue annual assessment of the list of non-storm water discharges allowed to be discharged to the MS4. ~~Describe any~~ Conditions to be placed on these allowable discharges will be discussed.

- (2) Enforce ordinances which prohibit illicit connections and illegal dumping into the MS4. As per the schedule in Part III.A.7.a, on page 30 of this permit (page 31 for FDOT), the permittees shall ~~develop~~ continue a random inspection program to uncover illicit connections. The program shall include a schedule for inspections and an allocation of staff and resources. A description of the enforcement procedures shall be updated as needed ~~detailed within the program developed~~. Because the potential for illicit discharges and improper disposal is generally higher for areas of older development, areas with many automobile-related industries, and areas with significant numbers of heavy industrial facilities, the permittees shall consider the specific land use and age of development when determining inspection priorities and inspection schedules for this program component. Facility inspections may be carried out in conjunction with other municipal programs (e.g. pretreatment inspections of industrial users, health inspections, fire inspections, etc.). The permittees shall maintain an internal log documenting the inspections performed.
- (3) ~~Provide in the first ANNUAL REPORT a photocopy of the signed adopted ordinance(s) identified in Table II.A.7.a.(3) below.~~ photocopies of signed adopted or amended storm water ordinances during the reporting period.

Table II.A.7.a.(3)	
PERMITTEE	ORDINANCE
Sarasota County	93-038
Town of Longboat Key	Chapters 33, 52, and 158.102 of the Ordinances of the Town of Longboat Key
City of Sarasota	93-2600 and Section 2-314 of the City of Sarasota Code

- (4) ~~As per the schedule in Part III.A.7.a, on page 31 of this permit, the permittees in Table II.A.7.a.(4) shall amend the identified ordinances to change the citation for the definition of "industrial"~~

activity," contained within these ordinances, to 40 CFR 122.26(b)(14) from the incorrect citation of 40 CFR 122.26(a)(14).

Table II.A.7.a.(4)	
PERMITTEE	ORDINANCE
City of Sarasota	93-3699
City of North Port	93-15, Section 180-21
City of Venice	93-14, Section 9-74

- b. *Dry Weather Field Screening Program:* The permittees shall continue ongoing efforts to detect the presence of illicit connections and improper discharges to the MS4.
- (1) To satisfy the requirements of this section, the permittees shall ~~implement~~ continue a dry weather field screening program to locate and eliminate illicit discharges and improper disposal into the MS4 in accordance with the schedule provided in Part III.A.7.b. on page 32 of this permit. This program shall include the dry weather screening activities identified in Table II.A.7.b. The minimum level of effort for the field screening program shall be based upon a 0.50-mile grid system, with each grid area containing at least one field screening location. In industrial and heavy commercial areas, the minimum level of effort shall be based upon a 0.25-mile grid system, with each grid area containing at least one field screening location. Under this program, all grid areas of the MS4 must be screened once during the permit term. Some grid areas may require more than one field screening location or a more frequent inspection schedule. In lieu of the grid system, the permittees may choose to field screen at all outfalls. Follow-up activities to eliminate illicit discharges and improper disposal may be prioritized on the basis of magnitude and nature of the suspected discharge; sensitivity of the receiving water; and/or other relevant factors. Screening methodology may be modified based on experience gained during actual field screening activities. While performing field screening activities, the permittees shall collect information on outfalls and portions of the MS4 which are not mapped, and this updated information shall be entered into the database system on an ongoing basis. An internal log documenting the results of all field screening performed shall be maintained.

Table II.A.7.b.	
GRID MAP COVERING AREA SERVED BY MS4 Or ALL OUTFALLS	FREQUENCY OF FIELD SCREENING
Industrial Land Use	0.25-mile Grid or All Outfalls Once / ~~5~~ 3 years
Heavy Commercial Land Use	0.25-mile Grid or All Outfalls Once / ~~5~~ 3 years
All Other Land Uses	0.50-mile Grid or All Outfalls Once / 5 years
Entire MS4 System	1/5 ~~4~~ of the Outfalls or 1/5 ~~4~~ of the Grid Areas Screened During Permit <u>Term</u> ~~Years Three, Four, &~~ ~~Five~~ with the Entire MS4 Screened Once / 5 years

- c. *Investigation of Suspected Illicits and/or Improper Disposal:* The permittees shall ~~follow, develop and implement~~ standard procedures ~~to be followed~~ to investigate portions of the MS4 that, based on the results of the field screen or other appropriate information, indicate a reasonable potential of containing illicit discharges or other sources of non-storm water. Notification to EPA of any illicit connection shall be an element of the investigative standard procedures.
- (1) To satisfy the requirements of this section, the permittees identified in Part III.A.7.c. on page 32 shall ~~develop and implement~~ continue standard investigative procedures to identify and terminate the source of the illicit connection or discharge in accordance with the schedule provided. The procedures ~~developed~~ shall require proper training for the field personnel involved in identifying conditions that may indicate the presence of illicit discharges. Upon the verification of responsible parties, the standard procedures ~~developed~~ shall require the immediate cessation of improper disposal practices and the elimination of the illicit connection as expeditiously as possible. Where the elimination of an illicit connection or the submittal of an NPDES application to EPA is not possible within a specified time frame determined by the permittee, the standard procedures developed shall require that the responsible parties submit for approval a written compliance schedule for the removal of the discharge. In the interim, the permittees shall require the operator of the illicit discharge to take all reasonable and prudent measures to minimize the discharge of pollutants to the MS4.
- (2) To satisfy the requirements of this section, FDOT shall develop and implement standard investigative procedures to identify the source of the illicit connection or discharge to the FDOT MS4, in accordance with the schedule provided in Part III.A.7.c. on page 33 of this permit. Upon the identification of responsible parties, the standard procedures developed shall require the timely reporting of water quality violations to Florida Department of Environmental Protection (FDEP) and EPA. Until such time that the illicit connection has been eliminated or the responsible parties have submitted an NPDES application for the discharge to EPA, FDOT shall require the operator of the illicit discharge to take all reasonable and prudent measures to minimize the discharge of pollutants to the MS4. Where measures to minimize the discharge are not taken, the developed procedures shall consider the termination of the connecting entity's FDOT drainage connection permit.

- d. *Spill Prevention and Response:* The permittees shall follow implemented procedures to prevent, contain, and respond to spills that may discharge into the MS4.
- (1) To satisfy the requirements of this section, the permittees shall adopt Sarasota County's *Hazardous Materials Emergency Plan*, FDOT's *Emergency Operations Procedures*, or a comparable plan and procedures which effectively mitigate potential pollutant discharges to surface waters. These documents shall be adopted in accordance with the schedule provided in Part III.A.7.d. on page 33 of this permit.
- e. *Public Notification:* The permittees shall ~~develop and implement a~~ continue the program to promote, publicize, and facilitate public reporting of illicit discharges of water quality impacts associated with discharges from the MS4.
- (1) To satisfy the requirements of this section, the permittees shall ~~develop and~~ continue implemented programs to facilitate public reporting of illicit discharges and improper disposal of materials into the MS4 in accordance with the schedule provided in Part III.A.7.e. on page 34 of this permit. The program shall inform the public about what to look for and how to report incidents. The program shall also enhance public awareness of the problems associated with illicit discharges and may include programs such as educating school students, using inserts in utility bills, and public service announcements in newspaper, on television, or on radio.
- f. *Oils, Toxics, and Household Hazardous Waste Control:* The permittees shall effectively prohibit the discharge or disposal of used motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, and animal wastes into the MS4.
- (1) To satisfy the requirements of this section, the permittees shall ~~implement~~ continue the Storm Water Management Programs identified in Part III.A.7.f. on page 35 of this permit.

g. *Limitation of Sanitary Sewer Seepage:* The permittees shall prevent (or require the operator of the sanitary sewer to eliminate) unpermitted discharges of dry and wet weather overflows from sanitary sewers into the MS4. Each permittee shall eliminate the infiltration of seepage from sanitary sewers into the MS4.

(1) To satisfy the requirements of this section, the permittees shall ~~implement~~ continue the Storm Water Management Programs identified in Part III.A.7.g. on page 36 of this permit.

8. *Industrial and High Risk Runoff:* The permittees shall ~~develop and~~ continue implemented ~~a~~ programs to identify and control pollutants, to the MEP and shall be consistent with State Water Policy, in storm water discharges to the MS4 from the municipal landfill(s); hazardous waste treatment, storage, disposal and recovery facilities; facilities that are subject to EPCRA Title III, Section 313; and any other industrial or commercial discharge in which the permittees determine is contributing a substantial pollutant loading to the MS4.

To satisfy the two (2) requirements of this section, the permittees shall:

a. *Identify priorities and procedures for inspections:* Maintain a list of ~~Identify all~~ targeted facilities and ~~determine~~ priority sites in accordance with the schedule provided in Part III.A.8.a. on pages 37 and 38 of this permit. Inspection schedules and procedures for the identified facilities shall be developed and implemented. Also, the permittees shall provide a listing in each ANNUAL REPORT of additionally identified industrial facilities which discharge storm water into the MS4 which have not been previously reported. The industrial storm water discharges that must be included in this inventory fall into the eleven (11) classes of industrial activities as defined in the November 1990 regulations under 40 CFR 122.26(b)(14).

- b. *Monitoring for High Risk Industries:* ~~Develop and implement~~ Continue a monitoring (or self monitoring) program for facilities identified under this section in accordance with the schedule provided in Part III.A.8.b. on page 38 of this permit. The monitoring program ~~may~~ shall include the collection of quantitative data on the following constituents:

- any pollutants limited in an existing NPDES permit for an identified facility;
- oil and grease;
- chemical oxygen demand (COD);
- pH;
- biochemical oxygen demand, five-day (BOD₅);
- total suspended solids (TSS);
- total phosphorus;
- total Kjeldahl nitrogen (TKN);
- nitrate plus nitrite nitrogen; and
- any information on discharges required under 40 CFR 122.21(g)(7)(iii) and (iv).

Data collected by the industrial facility to satisfy the monitoring requirements of an NPDES or State discharge permit may be used to satisfy this requirement. Permittees may require the industrial facility to conduct self-monitoring to satisfy this requirement.

9. *Construction Site Runoff:* The permittees shall ~~develop and~~ implement a program to reduce the discharge of pollutants from construction sites to the MEP and be consistent with State Water Policy.
- a. *Site Planning and Non-structural & Structural Best Management Practices:* The permittees shall require the use and maintenance of appropriate structural and non-structural best management practices to reduce pollutants discharged to the MS4 during the time of construction.
- (1) To satisfy the requirements of this section, the permittees shall ~~implement~~ continue the Storm Water Management Programs identified in Part III.A.9.a. on page 39 of this permit.
- b. *Inspection and Enforcement:* The permittees shall develop and implement a program for inspecting construction sites and for enforcing the requirement for control measures.
- (1) To satisfy the requirements of this section, the permittees shall ~~implement~~ continue the Storm Water Management Programs identified in Part III.A.9.b. on pages 40 and 41 of this permit.

- c. *Site Operator Training:* The permittees shall conduct appropriate education and training measures for construction site operators and those associated with the implementation of proper sediment & erosion control measures at construction sites.

- (1) To satisfy the requirements of this section, the permittees shall ~~implement~~ continue the Storm Water Management Program(s) identified in Part III.A.9.c. on pages 41 and 42 of this permit.

B. Area-specific Storm Water Management Program Requirements.

**Reserved pending additional requirements which may be included as a result of State Certification of the permit.
(See Section 401 of the CWA.)**

- C. Deadlines for Program Compliance.** Except as provided in Part III, compliance with the storm water management program shall be required 90 days from the effective date of the permit.

- D. Roles and Responsibilities of Permittees.** The Storm Water Management Program, together with any attached interagency agreements or interagency agreements developed subsequent to the effective date of the permit, shall clearly identify the roles and responsibilities of each permittee. Following the effective date of the permit, interagency agreements developed and implemented must be included in the ANNUAL REPORT covering the permit year in which the agreement became effective.

E. **Legal Authority.** To the extent allowed by law, each permittee shall ensure legal authority to control discharges to and from those portions the MS4 over which it has jurisdiction. This legal authority may be a combination of statute, ordinance, permit, contract, order or inter-jurisdictional agreements between permittees with adequate existing legal authority to accomplish Items 1 - 6 below. This legal authority for FDOT may be a combination of State statutes administered and enforced by sister agencies within the State of Florida government system which have adequate existing legal authority to accomplish Items 1 - 6 below.

1. Control the contribution of pollutants to the MS4 by Storm Water Discharges Associated with Industrial Activity and the quality of storm water discharged from sites of industrial activity;
2. Prohibit illicit discharges to the MS4;
3. Control the discharge of spills and the dumping or disposal of materials other than storm water (e.g. industrial and commercial wastes, trash, used motor vehicle fluids, leaf litter, grass clippings, animal wastes, etc.) into the MS4;
4. Control through interagency or inter-jurisdictional agreements among permittees the contribution of pollutants from one portion of the MS4 to another;
5. Require compliance with conditions in ordinances, permits, contracts or orders; and
6. Carry out all inspection, surveillance and monitoring procedures necessary to determine compliance with permit conditions.

F. **Storm Water Management Program Resources.** Each permittee shall provide adequate finances to implement their activities under the Storm Water Management Program. Each permittee shall also have a source of funding for implementing all other requirements included within this NPDES storm water permit.

G. Storm Water Management Program Review and Modification.

1. *Program Review:* Each permittee shall participate in an annual review of the current Storm Water Management Program (SWMP) in conjunction with preparation of the ANNUAL REPORT required under Part V.C. of the permit.
2. *Program Modification:* The permittee(s) may modify the SWMP during the life of the permit in accordance with the following procedures:
 - a. Modifications adding (but not subtracting nor replacing) components, controls, or requirements to the approved SWMP may be made by the permittee(s) at any time. A description of the modification shall be included within the subsequent ANNUAL REPORT.
 - b. Modifications replacing an ineffective or unfeasible BMP specifically identified in the SWMP with an alternate BMP may be made by the permittee(s) at any time. A description of the replacement BMP shall be included in the subsequent ANNUAL REPORT along with the following information:
 - (1) an analysis of why the former BMP was ineffective or infeasible (including cost prohibitive);
 - (2) expectations on the effectiveness of the replacement BMP; and
 - (3) an analysis of why the replacement BMP is expected to achieve the goals of the BMP which was replaced.
 - c. Modifications to adjust the schedule for maintenance activities or the frequency of inspections or monitoring identified in the SWMP may be made by the permittee(s) on an annual basis. The permittees must include in the subsequent ANNUAL REPORT a description of the schedule adjustment along with the following information:
 - (1) an analysis of why the former schedule was ineffective or infeasible;
 - (2) expectations on the effectiveness of the replacement schedule; and
 - (3) an analysis, if applicable, of why the replacement schedule will ensure the optimization of equipment use.

- d. Modifications subtracting components, controls, or requirements of the SWMP may not be made by the permittee(s) UNLESS it can be clearly demonstrated that with the elimination of this component, the SWMP will continue to achieve a reduction in pollutants to the MEP and shall be consistent with State Water Policy. In the case where this type of modification is appropriate, the permittee(s) may make the required modification and shall include in the subsequent ANNUAL REPORT a description of the component which has been eliminated along with the following information:
 - (1) an analysis of why the component was ineffective or infeasible, and
 - (2) a detailed explanation of why, with the elimination of this component, the SWMP will continue to achieve a reduction in pollutants to the MEP while remaining consistent with State Water Policy.
- e. Modifications included within the ANNUAL REPORT shall be signed in accordance with Part VI.H. by all directly affected permittees, and shall include a certification that all affected permittees were given an opportunity to comment on proposed changes.

- 3. *Transfer of Ownership, Operational Authority, or Responsibility for Storm Water Management Program Implementation:* The permittee(s) shall implement the SWMP on all new areas added to their portion of the municipal separate storm sewer system (or for which they become responsible for implementation of storm water quality controls) as expeditiously as practicable. Implementation of the program in any new area shall consider the plans in the SWMP of the previous MS4 ownership.

Prior to land annexation, the permittee shall include a schedule for extending the SWMP to the annexed areas. At least 30 days prior to transfer of operational authority or responsibility for SWMP implementation, all parties shall prepare a schedule for transfer of responsibility for SWMP implementation on the affected portions of the MS4. This schedule shall be included in the ANNUAL REPORT.

PART III. SCHEDULES FOR IMPLEMENTATION AND COMPLIANCE

The permittee(s) shall comply with the following schedules for Storm Water Management Program implementation and augmentation, and for permit compliance.

A. IMPLEMENTATION AND AUGMENTATION OF STORM WATER MANAGEMENT PROGRAMS

STORM WATER MANAGEMENT PROGRAM	PERMITTEE(S)	ACTIVITY	DATE DUE / FREQUENCY
1. Operation and Maintenance of Structural Controls and Storm Water Collection System	Sarasota County City of Sarasota City of Venice City of North Port FDOT	~~Perform~~ <u>Continue</u> to perform inspections and maintenance of structural controls. Maintain an internal record keeping system to track inspections and maintenance activities performed during the permit. Conduct an annual assessment of the effectiveness of inspection & <u>and</u> maintenance schedule and provide a summary of the assessment in each ANNUAL REPORT.	Annual Requirement
	<u>ALL</u> <u>except FDOT</u>	~~Identify and~~ <u>Maintain</u> inventory of each privately-owned and maintained storm water management facility which discharges into the MS4.	~~Within 12 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
		~~Develop a revolving inspection program for privately-owned and maintained storm water treatment systems which discharge into the MS4 to determine compliance with local permit conditions and/or local ordinances. Program developed shall include a description of the enforcement provisions for non-compliance.~~ ~~Following development, include a summary of the inspection program & schedule in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 12 Months of the Effective Date of the Permit~~

		~~Implement~~ <u>Continue</u> the revolving inspection program for privately-owned and maintained storm water treatment systems which discharge into the MS4.	~~Within 24 Months of the Effective Date of the Permit.~~ <u>Annual Requirement</u>
1. Operation and Maintenance of Structural Controls and Storm Water Collection System (continued)	Sarasota County	Complete Florida Water & Pollution Control Operators Association (FW&PCOA) course or equivalent.	5 employees / year
	ALL OTHERS Except for FDOT		1 employee / permit

STORM WATER MANAGEMENT PROGRAM	PERMITTEE(S)	ACTIVITY	DATE DUE / FREQUENCY
2. Control of Discharges from Areas of New Development and Significant Redevelopment	ALL except for City of North Port and FDOT	Maintain ~~Adopt~~ as local ordinances storm water quality treatment criteria consistent, but not necessarily similar to the State of Florida Storm Water Treatment Regulations (F.A.C. 40D-4, 40D-40, 62-25).	~~Prior to the end of the Permit Term~~ <u>Annual Requirement</u>
	FDOT	Employ new FDOT Drainage Connection Permit requirements which include a "certification of water quality" to be provided by the connecting entity.	Effective Date of Permit
	ALL except for FDOT	Continue on the current schedule to perform master basin studies on the major watersheds identified in Table 1 on page 4A-34 of Appendix A. Develop a course of action for each as they are completed. Include in each ANNUAL REPORT a brief summary of each basin study completed during the permit year and the resulting course of action.	~~Effective Date of the Permit~~ <u>Annual Requirement</u>
	ALL except for City of North Port and FDOT	~~Evaluate land development practices to reduce the amount of impervious surfaces in future development. After completing the evaluation, include a summary of the resulting course of action in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 36 Months of the Effective Date of Permit~~ <u>Annual Requirement</u>

		~~Implement~~ Continue appropriate land development practices & incentives for the reduction of impervious surfaces.	~~As Determined by the Evaluation - Prior to the end of the Permit Term Annual Requirement~~

STORM WATER MANAGEMENT PROGRAM	PERMITTEE(S)	ACTIVITY	DATE DUE / FREQUENCY
3. Operation and Maintenance of Public Streets, Roads, and Highways	Sarasota County City of Sarasota City of Venice	~~Provide updates to a description of the municipally-operated Litter Control Program(s) for highways and streets within jurisdictional area. for incorporation into the permit.~~	~~Provide in First ANNUAL REPORT~~ <u>Annual Requirement</u>
	ALL except for North Port WCD City of North Port and FDOT	Implement Litter Control Program(s) for highways and streets within jurisdictional area and properly dispose of collected material.	Effective Date of the Permit Ongoing
	FDOT	Implement Litter Control Program for highways and streets within jurisdictional area and properly dispose of collected material. Report in each ANNUAL REPORT the approximate frequency of litter collection services performed under contractual agreements during the permit year.	Effective Date of the Permit
	ALL except for North Port WCD City of North Port & FDOT	~~Implement~~ Continue street sweeping program within jurisdictional area and properly dispose of collected material.	Effective Date of the Permit <u>Annual Requirement</u>

	FDOT	Implement street sweeping program within jurisdictional area and properly dispose of collected material. Report in each ANNUAL REPORT the approximate frequency of street sweeping services performed under contractual agreements during the permit year.	
	Sarasota County	Provide the maintenance schedule for storm water structures (i.e., catch basins) and roadside ditches <u>as schedule modifications dictate.</u>	~~Provide in First~~ ANNUAL REPORT Annual Requirement
3. Operation and Maintenance of Public Streets, Roads, and Highways (continued)	ALL	<u>Continue to perform scheduled maintenance on catch basins, grates, and other storm water structures and roadside ditches and properly dispose of accumulated sediments as per Table II.A.1.b.</u> Maintain an internal log documenting maintenance activities.	~~Effective Date of the~~ Permit Annual Requirement
	ALL except for City of North Port <u>and</u> <u>FDOT</u>	~~As described in Part II.3.a. on page 7 of the permit, develop practices to reduce pollutants from road repair and from all municipal equipment yards & and maintenance shops to the MEP and be consistent with State Water Policy.~~ ~~After development, include a summary of the practices in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 12 months of~~ the Effective Date of the Permit
		Implement <u>Continue</u> developed practices to reduce to the MEP pollutants from road repair and municipal yards.	~~Within 24 months of~~ the Effective Date of the Permit Annual Requirement

	FDOT	Coordinate the "Adopt A Highway" program for local organizations to be identified with specific highway cleanup and beautification projects.	Within 24 months of the Effective Date of the Permit
		Conduct annual routine inspections of each FDOT maintenance facility to ensure that BMPs are operational. The FDOT NPDES Coordinator or his/her representative shall perform this activity.	

STORM WATER MANAGEMENT PROGRAM	PERMITTEE(S)	ACTIVITY	DATE DUE / FREQUENCY
4. Ensure Flood Control Projects Comply With State Storm Water Quality Requirements	ALL Except for FDOT	~~Develop~~ <u>Maintain</u> a priority list and construction schedule for the retrofit projects recommended by the master basin studies completed to date.	~~Within 12 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
		Include a copy of the prioritized project list and construction schedule in the ANNUAL REPORT for incorporation into the permit. Provide updates to this list in future ANNUAL REPORTS as additional master basin studies are completed.	

FDOT	Present the Five Year Work Program ~~a retrofitting program~~ to the local Metropolitan Planning Organizations (MPO) for consideration which <u>includes focuses on water quality improvement. Continue to incorporate storm water management design for new projects as required by Water Management District and/or FDEP statutes.</u>	~~Within 12 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
	Submit within the ANNUAL REPORT the list of approved ~~retrofit~~ projects in the <u>Department's 5-Year MPO's work program for District One. Also provide the construction schedule for these approved projects. Provide updates to this list in future ANNUAL REPORTS as additional projects are approved.</u>	~~Within 24 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
	Begin ~~retrofit priority~~ projects as per the construction schedule in the approved work program for District One.	

STORM WATER MANAGEMENT PROGRAM	PERMITTEE(S)	ACTIVITY	DATE DUE / FREQUENCY
5. Identification, Monitoring, and Control of Discharges from Municipal Waste Treatment, Storage, or Disposal Facilities not covered by an NPDES Storm Water Permit	Sarasota County City of Sarasota City of North Port	~~Continue Develop~~ program to evaluate, through inspections and monitoring, the municipally-operated solid waste transfer station(s), maintenance and storage yards for waste transportation fleets, POTWs, and sludge application and/or disposal sites. The goals of the evaluation program shall be to identify these facilities, determine the necessary control measures ~~&~~ <u>and</u> procedures to be employed at each, and administer an appropriate implementation schedule.	~~Within 30 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
		~~After developing the evaluation program, Submit a program summary in the subsequent ANNUAL REPORT for incorporation into the permit.~~ ~~Implement developed~~ <u>Continue</u> program to reduce pollutants in storm water discharges from these facilities to the MEP and be consistent with State Water Policy. <u>Submit a program summary in the subsequent annual report.</u>	~~Within 36 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>

STORM WATER MANAGEMENT PROGRAM	PERMITTEE(S)	ACTIVITY	DATE DUE / FREQUENCY
6. Control of Pollutants Related to Application of Pesticides, Herbicides, and Fertilizers	<u>ALL</u> <u>except for FDOT</u>	~~Continue to Develop~~ provide the details, for incorporation into the permit, of the specific public education program(s) designed to encourage the public to reduce their use of pesticides, herbicides and fertilizers.	~~Provide in First ANNUAL REPORT~~ <u>Annual Requirement</u>

	~~Continue~~ <i>Implement</i> public education program(s).	Effective Date of the Permit Annual Requirement
ALL except for FDOT	~~Continue~~ <i>Evaluate current</i> training requirements & certification procedures for employees who handle pesticides, herbicides and fertilizers. ~~Provide~~ <i>After completing the evaluation, include a summary of the results in the subsequent ANNUAL REPORT for incorporation into the permit.</i>	Within 24 Months of the Effective Date of the Permit Annual Requirement
	~~Implement any revised procedures for the training & certification of these employees.~~	As Necessary — Within 36 Months of the Effective Date of the Permit Annually
ALL	<i>Require evidence of proper certification and licensing for all applicators contracted to apply pesticides, herbicides, and fertilizers on municipal and FDOT property.</i>	Effective Date of the Permit Annual Requirement

6. Control of Pollutants Related to Application of Pesticides, Herbicides, and Fertilizers (continued)	ALL except for FDOT	<i>Continue</i> Develop a program with procedures to minimize the use of pesticides, herbicides, and fertilizers and to properly store and mix these products. The program should consider including components such as providing xeriscape planning assistance and promoting voluntary use of native Florida plantings and slow-release fertilizers. Provide program updates in each ANNUAL REPORT.	~~Within 24 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
	ALL except for FDOT		
	FDOT		Effective Date of the Permit

STORM WATER MANAGEMENT PROGRAM	PERMITTEE(S)	ACTIVITY	DATE DUE / FREQUENCY
7. Illicit Discharges and Improper Disposal			

a.) Inspections, ordinances, and enforcement measures	~~ALL~~ ~~Except for~~ ~~City of North Port~~ ~~and FDOT~~	~~Continue annual~~ ~~Complete the~~ assessment of the list of non-storm water discharges allowed to be discharged to the MS4 as detailed on page <u>9</u> of the permit <u>for incorporation into the permit.</u> ~~After completing the assessment, include a summary of the results in the subsequent ANNUAL REPORT for incorporation into the permit. Provide updates in each ANNUAL REPORT.~~	~~Within 18 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
	~~ALL~~ ~~Except for~~ ~~City of North Port~~ ~~and FDOT~~	~~Develop an inspection program to enforce ordinances which prohibit illicit connections and illegal dumping into the MS4.~~ ~~After development, include a summary of the inspection program in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 30 Months of the Effective Date of the Permit~~
	~~Sarasota County~~	~~Continue~~ <u>Implement</u> inspection program to enforce ordinances which prohibit illicit connections and illegal dumping into the MS4. Maintain an internal log documenting inspections and enforcement actions performed and provide a summary of these reports <u>and program updates in each ANNUAL REPORT.</u>	~~Within 30 Months of Effective Date of the Permit~~ <u>Annual Requirement</u>
	~~ALL OTHERS~~ ~~Except for~~ ~~City of North Port~~ ~~and FDOT~~		~~Within 36 Months of the Effective Date of the Permit~~

7. *Illicit Discharges and Improper Disposal*

a.) *Inspections, ordinances, and enforcement measures*

(continued)

FDOT

~~Continue existing program developed~~ *Develop a program to inspect drainage connections after project completion to ensure continued compliance with drainage connection permit requirements and to ensure that no illicit or non-permitted connections have been made. In cases where another regulatory agency requires a periodic certification of compliance, the program developed may allow FDOT to accept this certification of compliance in lieu of further inspections by FDOT.*

~~After development, include a summary of the inspection program in the subsequent ANNUAL REPORT for incorporation into the permit.~~

Continue to implement developed program to inspect drainage connections after project completion. Maintain an internal log existing record keeping system documenting inspections and enforcement actions performed and provide a summary of these records in each ANNUAL REPORT.

~~Annual Requirement Within 21 Months of the Effective Date of the Permit~~

~~Annual Requirement Within 30 Months of the Effective Date of the Permit~~

~~Sarasota County
Longboat Key
City of Sarasota
All except FDOT~~

Provide photocopies of signed adopted or amended storm water ordinances during the reporting period. As identified in Table H.A.7.a.(3) on page 10 of the permit.

~~Provide in First ANNUAL REPORT
As needed~~

~~City of North Port~~ ~~City of Sarasota~~ ~~City of Venice~~	~~Amend ordinances as identified in Table II.A.7.a.(4) on page 11 of the permit to reflect correct citation for "industrial activity" (40 CFR 122.26(b)(14)).~~ ~~Include a copy of the amended ordinances in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 12 Months of the Effective Date of the Permit~~

7. *Illicit Discharges and Improper Disposal (continued)*

b.) <i>Field Screening</i>	<i>ALL</i>	Conduct field screening of the MS4 for illicit discharges and improper disposal as shown in Table II.A.7.b. on page <u>12</u> of this permit. Collect inventory information on outfalls and on portions of MS4 not mapped and update database system on an ongoing basis. Maintain an internal log documenting the results of all field screening performed.	At least ~~1/3~~ <u>1/5</u> of entire MS4 screened annually with the Entire MS4 Screened during the Permit term. ~~Of Grid Areas Screened in Permit Years Three, Four and Five with Entire MS4 Screened Once/5 years~~
c.) <i>Investigation of Suspected Illicits and/or Improper Disposal</i>	<i>ALL except for FDOT</i>	~~Develop standard investigative procedures to identify and terminate the source(s) of illicit connections or discharges to the MS4.~~ ~~After development, include a summary of the investigative procedures in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 24 Months of the Effective Date of the Permit~~
		~~Implement-Continue standard investigative procedures to identify and terminate the source(s) of illicit connections or discharges to the MS4. Provide updates to procedures.~~	~~Within 30 Months of the Effective Date of the Permit Annual Requirement~~

7. <i>Illicit Discharges and Improper Disposal (continued)</i>			
c.) <i>Investigation of Suspected Illicits and/or Improper Disposal</i> (continued)	FDOT	~~Develop standard investigative procedures to identify and report~~ <i>Continue present program of identifying and reporting the source(s) of illicit connections or discharges. These procedures shall include notification to FDEP and EPA of illicit connections.</i>	~~Within 24 Months of the Effective Date of the Permit~~ <i>Annual Requirement</i>
		~~After development, include a summary of the investigative procedures in the subsequent ANNUAL REPORT for incorporation into the permit.~~	
		~~Continue to implement the existing~~ <i>Implement standard investigative procedures to identify the source(s) of illicit connections or discharges to the MS4.</i>	~~Within 30 Months of the Effective Date of the Permit~~ <i>Annual Requirement</i>
d.) <i>Spill Prevention and Response</i>	~~Sarasota County~~ FDOT	~~Provide a revised copy of the applicable portions of the Sarasota County's Hazardous Materials Emergency Plan and FDOT's Emergency Operations Procedures which effectively mitigate potential pollutant discharges to surface waters.~~	<i>Provide in First Annual Report</i> <u>As needed</u>
	<i>ALL except for Sarasota County and FDOT</i>	~~Maintain~~ <i>Adopt</i> <i>Sarasota County's Hazardous Materials Emergency Plan, FDOT's Emergency Operations Procedures, or a comparable plan and procedures which effectively mitigate potential pollutant discharges to surface waters.</i>	~~Within 12 Months of the Effective Date of the Permit~~ <i>Annual Requirement</i>

7. *Illicit Discharges and Improper Disposal (continued)*

e.) <i>Public Notification</i>	ALL	<i>Continue ~~Develop~~ a the program to promote, publicize, and facilitate public reporting of the presence of illicit discharges and improper disposal of materials into the MS4.</i>	<i>~~Within 30 Months of the Effective Date of the Permit~~</i> <i>Annual Requirement</i>
		<i>After development, include a summary of the public program in the subsequent ANNUAL REPORT for incorporation into the permit.</i>	
		<i>Implement public reporting program.</i>	<i>Within 36 Months of the Effective Date of the Permit.</i>
		<i>Maintain a citizen complaint log documenting all reports of illicit discharges and what actions were taken to investigate and resolve the problem. Include a summary of this log in each ANNUAL REPORT.</i>	<i>Annual Requirement</i> <i>~~Within 36 Months of the Effective Date of the Permit.~~</i>
	FDOT	<i>~~Establish a direct dial local~~ Continue to use the existing telephone number at the ~~District~~ local Maintenance Office to be used for the reporting of illicit connections, accidental spills, illegal dumping, or other water quality violations and action as needed. This requirement may be satisfied through cooperative efforts with other permittees.</i>	<i>~~Within 36 Months of the Effective Date of the Permit~~</i> <i>Annual Requirement</i>

7. *Illicit Discharges and Improper Disposal (continued)*

f.) <i>Oils, Toxics, and Household Hazardous Waste Control</i>	<i>ALL except for FDOT</i>	<i>Support and promote on a regular basis the six (6) oil recycling site locations within Sarasota County and the two (2) permanent collection centers for household hazardous waste materials, <u>or equivalent.</u></i>	<i><u>Effective date of Permit Annual Requirement</u></i>
		<i>Continue Amnesty Days program, <u>or equivalent.</u></i>	
		<i>Document the total annual amount of household hazardous waste materials collected.</i>	
	<i>FDOT</i>	<i><u>Continue to Actively promote and support a voluntary stenciling program for all storm sewer inlets that discharge directly or indirectly into surface waters.</u></i>	<i><u>Within 12 Months of Effective Date of the Permit Annual Requirement</u></i>
		<i>With each FDOT Drainage Connection Permit, include information on used oil recycling, proper hazardous waste disposal, storm water regulations, and spill reporting.</i>	<i><u>Within 12 Months of the Effective Date of the Permit Date Needed</u></i>

7. *Illicit Discharges and Improper Disposal (continued)*

g.) <i>Limitation of Sanitary Sewer Seepage</i>	<i>ALL except for City of North Port and FDOT</i>	<i>Develop procedures to limit the infiltration of sanitary seepage into the MS4, in areas where wastewater infiltration is suspected.</i>	<i>Within 30 Months of the Effective Date of the Permit</i>
		<i>After development, include a summary of the procedures in the subsequent ANNUAL REPORT for incorporation into the permit.</i>	
		<i>Implement developed ~~Continue~~ procedures to limit the infiltration of sanitary seepage into the MS4. <u>Provide updates as procedures are revised.</u></i>	<i>~~Within 36 Months of the Effective Date of the Permit~~ Annual Requirement</i>
	<i>ALL <u>Except FDOT</u></i>	<i>Advise appropriate utility owner of violation if constituents common to wastewater contamination are discovered in the MS4 during dry weather field screening.</i>	<i>~~Effective Date of the Permit~~ Annual Requirement</i>
		<i>Identify areas served by septic tanks. Advise appropriate State Agency of violation if constituents common to wastewater contamination due to malfunctioning septic tank systems are discovered in the MS4 during dry weather field screening.</i>	<i>~~Within 12 Months of the Effective Date of the Permit~~ Annual Requirement</i>

<i>STORM WATER MANAGEMENT PROGRAM</i>	<i>PERMITTEE(S)</i>	<i>ACTIVITY</i>	<i>DATE DUE / FREQUENCY</i>

8. Industrial and High Risk Runoff

a.) Identification of Priorities and Procedures for Inspections	ALL	~~Develop an inventory~~ <u>Maintain a prioritized list</u> of all existing high risk facilities discharging into the MS4. This inventory shall identify the outfall and surface waterbody into which each high risk facility drains.	~~Within 24 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
		~~Based upon historical information and available monitoring & screening data, prioritize the identified high risk facilities.~~	~~Within 24 Months of the Effective Date of the Permit~~
	~~ALL~~ except for FDOT	~~Develop procedures for inspecting high risk facilities and establish an inspection schedule.~~ After development, include a summary of the procedures & inspection schedule in the subsequent ANNUAL REPORT for incorporation into the permit.	~~Within 24 Months of the Effective Date of the Permit~~
	FDOT	~~Develop~~ <u>Continue existing procedures for periodic observation</u> ~~the inspection~~ of high risk facilities which hold FDOT drainage connection permits to ensure compliance with permit requirements. In cases where another regulatory agency requires a periodic certification of compliance, the program developed may allow FDOT to accept this certification of compliance in lieu of further inspections by FDOT. After development, include a summary of the procedures & inspection schedule in the subsequent ANNUAL REPORT for incorporation into the permit.	~~Within 24 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>

	<i>ALL</i>	~~Begin~~ <u>Continue</u> inspections of identified high risk facilities. Maintain an internal log documenting the results of the inspections performed.	~~Within 36 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>

8. Industrial and High Risk Runoff (continued)			
a.) Identification of Priorities and Procedures for Inspections (continued)	ALL	Maintain a list of all industrial storm water sources discharging to MS4 and update in ANNUAL REPORTS.	~~Effective Date of the Permit~~ <u>Annual Requirement</u>
b.) Monitoring for High Risk Industries	ALL except for FDOT	~~Develop~~ <u>Continue</u> a monitoring (or self monitoring) program for high risk industrial facilities. <u>Maintain</u> ~~Include~~ a description of the specific enforcement steps to be taken to require compliance with local storm water ordinances if violations are identified. ~~After development, include a summary of~~ <u>Provide</u> revisions to the monitoring program in the subsequent ANNUAL REPORT. ~~for incorporation into the permit.~~	~~Within 24 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
	FDOT	~~Develop a monitoring (or self monitoring) program for high risk industrial facilities which hold FDOT drainage connection permits. Include a description of the specific enforcement steps to be taken to require compliance with permit conditions if violations are identified.~~ ~~After development, include a summary of the monitoring program in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 24 Months of the Effective Date of the Permit~~

	<i>ALL</i>	<i>Implement the monitoring program for high risk industrial facilities.</i>	<i>~~Within 36 Months of the Effective Date of the Permit~~</i>

<i>STORM WATER MANAGEMENT PROGRAM</i>	<i>PERMITTEE(S)</i>	<i>ACTIVITY</i>	<i>DATE DUE / FREQUENCY</i>
<i>9. Construction Site Runoff</i>			
<i>a.) Site Planning & Structural and Non-structural Controls</i>	<i>ALL except for City of North Port and FDOT</i>	<i>~~Continue Review erosion and sediment control requirements to determine modifications necessary to correlate consistent with SWFWMD's requirements and EPA's NPDES Construction Activity General Permit.~~</i> <i>~~Summarize the necessary modifications in the subsequent ANNUAL REPORT for incorporation into the permit.~~</i>	<i>~~Within 12 Months of the Effective Date of the Permit~~</i> <i>Annual Requirement</i>
		<i>~~Incorporate necessary modifications to the erosion and sediment control requirements.~~</i>	<i>~~Within 36 Months of the Effective Date of the Permit~~</i>
		<i>In land development regulations, ~~maintain~~ incorporate guidelines and recommendations for reducing the amount of sediment leaving construction sites.</i>	<i>~~Within 36 Months of the Effective Date of the Permit~~</i> <i>Annual Requirement</i>
		<i>Track construction projects required to install erosion and sediment controls. Document the installation, maintenance, and effectiveness of the controls. Integrate these records with the education program for training the site contractors.</i>	<i>~~Within 18 Months of the Effective Date of the Permit~~</i> <i>Annual Requirement</i>

	<i>FDOT</i>	<i>Employ new FDOT Drainage Connection Permit requirements which direct connecting entities subject to the NPDES storm water regulations to submit a copy of their ~~NPDES Storm Water Pollution Prevention Plan NOI~~ to FDOT.</i>	<i>~~Effective Date of the Permit~~ Annual Requirement</i>

9. Construction Site Runoff (continued)

b.) Inspection and Enforcement	ALL except for City of North Port and FDOT	~~Review existing inspection policies and code enforcement programs to first identify all agencies conducting site inspections and then to determine which agency is responsible for issuing enforcement actions for which code violations.~~	~~Within 24 Months of the Effective Date of the Permit~~
		~~Summarize results and include in the subsequent ANNUAL REPORT for incorporation into the permit.~~	
		Train inspectors (regardless of specialty) who are likely to be on-site during earth moving activities in erosion control techniques.	1 Inspector / Year
	ALL except for City of North Port	~~Implement~~ Continue the use of an erosion & sediment control checklist for all inspectors. Include verification that construction sites subject to the NPDES Storm Water Regulations have NPDES permit coverage and a Storm Water Pollution Prevention Plan on site.	~~Within 24 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
		~~Include developed checklist in the subsequent ANNUAL REPORT for incorporation into the permit.~~	
	ALL except for City of North Port	~~Develop a program to inspect construction projects for compliance with local storm water ordinances and/or local permits.~~	~~Within 24 Months of the Effective Date of the Permit~~
	ALL except for City of North Port and FDOT	~~Implement~~ Continue a program developed to inspect construction projects for compliance with local storm water ordinances and/or local permits.	~~Within 36 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>

9. Construction Site Runoff (continued)			
b.) Inspection and Enforcement (continued)	FDOT	~~Implement~~ <u>Continue existing</u> program developed to inspect construction projects that propose to directly discharge storm water to the FDOT MS4 and have been granted an FDOT drainage connection permit for compliance with FDOT permit conditions. Require ~~connection entities, who are found or suspected of discharging storm water of unacceptable quality during or following construction, to sample and test the discharge to prove compliance with FDOT permit conditions.~~	~~Within 36 Months of the Effective Date of the Permit~~
c.) Site Operator Training	ALL except for City of North Port and FDOT	~~Implement an~~ <u>Continue to hold an annual NPDES workshops</u> for design professionals, land developers, inspectors and contractors, including earth moving contractors. Topics to include are measures to reduce pollutants from sites, awareness of the NPDES program requirements for construction activities, and solutions to erosion and sediment problems commonly found by the inspectors during construction.	~~Within 24 Months of the Effective Date of the Permit~~ <u>Biennial Annual Requirement</u>
		~~Evaluate the feasibility of an erosion & sediment control certification program for construction site operators (contractors and developers), plan reviewers, and inspectors that work on sites that discharge to the MS4.~~ ~~Upon conclusion of the evaluation, include a summary of the findings in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 30 Months of the Effective Date of the Permit~~

		~~If certification program is deemed feasible, implement program for construction site operators, plan reviewers, and inspectors.~~	~~If Deemed Feasible- Within 36 Months of the Effective Date of the Permit~~
c.) Site Operator Training (continued)	ALL except for City of North Port and FDOT	~~Develop a procedure~~ Continue to notify building permit applicants in developments which, because of the amount of land area disturbed, are subject to the NPDES storm water regulations of their application responsibilities under the NPDES permitting program for construction site runoff. ~~After development, include a summary of procedures in the subsequent ANNUAL REPORT for incorporation into the permit.~~	~~Within 24 Months of the Effective Date of the Permit~~ <u>Annual Requirement</u>
		~~Implement developed procedures to notify building permit applicants in developments which, because of amount of land area disturbed, are subject to the NPDES storm water regulations of their application responsibilities under the NPDES permitting program for construction site runoff.~~	~~Within 30 Months of the Effective Date of the Permit~~
		Conduct presentations to local professional organizations which are associated with the construction industry to discuss proper construction site management for water quality.	Ongoing

B. COMPLIANCE WITH EFFLUENT LIMITATIONS.

NONE

PART IV. NUMERIC EFFLUENT LIMITATIONS

NONE

PART V. MONITORING AND REPORTING REQUIREMENTS

A. Seasonal Loadings and Event Mean Concentrations.

1. As per 40 CFR 122.26(d)(2)(iii)(C), the permittees shall provide estimates of the seasonal pollutant load and of the event mean concentration of a representative storm for the parameters listed in Table V.A.1. for each "major watershed" within the MS4. These constituents were detected in the sampling data reported in the Part 2 application. The seasonal pollutant load and event mean concentration for each major watershed may be estimated from the representative monitoring locations, from regional NURP or State data, or from pooling results from other nearby Florida MS4 monitoring activities and shall take into consideration land uses and drainage areas within the watershed. The estimates of seasonal loadings and event mean concentrations shall be included in the ANNUAL REPORT for Year Four of the permit.

For the purposes of this permit, a "major watershed" is defined as follows:

- An area bounded peripherally by a water parting (i.e., ridge) and draining to a particular water course or body of water. A major watershed shall encompass a named major water course or may consist of a coastal area draining directly into a bay. A major watershed may contain one or more "major outfalls".

An inventory ~~The location~~ of all known major outfalls shall be maintained ~~inventoried in the ANNUAL REPORT for Year One of the permit,~~ with updates describing any additionally identified major outfalls in each subsequent ANNUAL REPORT. For the purposes of this permit, a "major outfall" is defined as follows:

- a pipe (or closed conveyance) system with a cross-sectional area equal to or greater than 7.07 square feet (e.g., if a single circular pipe system, an inside diameter of 36 inches or greater);
- a single conveyance other than a pipe, such as an open channel ditch, which is associated with a drainage area of more than 50 acres;
- a pipe (or closed conveyance) system, draining "industrial land use," with a cross-sectional area equal to or greater than 0.79 square feet (e.g., if a single circular pipe system, an inside diameter of 12 inches or greater); or
- a single conveyance other than a pipe, such as an open channel ditch, which is associated with an "industrial land use" drainage area of more than 2 acres;

TABLE V.A.1.

PARAMETERS	
Biochemical Oxygen Demand (BOD ₅) (mg/l)	Oil & Grease (mg/l)
Chemical Oxygen Demand (COD) (mg/l)	Total Recoverable Cadmium (mg/l)
Total Suspended Solids (TSS) (mg/l)	Total Recoverable Chromium (mg/l)
Total Dissolved Solids (TDS) (mg/l)	Total Recoverable Copper (mg/l)
Total Kjeldahl Nitrogen (as N) (mg/l)	Total Recoverable Lead (mg/l)
Nitrate plus Nitrite (as N) (mg/l)	Total Recoverable Zinc (mg/l)
Total Phosphorus (mg/l)	Dissolved Phosphorus (mg/l)

2. ~~The permittees listed in Table V.A.2. below shall conduct an investigation of the identified drainage basins to determine the sources of the following organic pollutants detected in the Part 2 application sampling data. A report summarizing the conclusions of this investigation shall be included in the ANNUAL REPORT for Year Three of the permit.~~

TABLE V.A.2.		
PARAMETERS	BASIN	PERMITTEE(S)
Benzo(a)anthracene	Indian Ave. Site #5	City of Venice
Benzo(k)fluoranthene	Indian Ave. Site #5	City of Venice
3,4-Benzofluoranthene	East Ave. Site #2	City of Sarasota
	Indian Ave. Site #5	City of Venice
Bis(2-ethylhexyl)phthalate	Loughat Key Site #1	Loughat Key
	East Ave. Site #2	City of Sarasota
	Indian Ave. Site #5	City of Venice
	Richardson Rd. Site #3	Sarasota County
Chrysene	East Ave. Site #2	City of Sarasota
	Indian Ave. Site #5	City of Venice
4,4'-DDE	East Ave. Site #2	City of Sarasota
	Indian Ave. Site #5	City of Venice

B. Monitoring Data Collection. According to the agreements established between permittees, the following monitoring program shall be developed and implemented:

1. *Monitoring:* Establish local monitoring stations in conjunction with the State of Florida's *Surface Water Ambient Monitoring Program*. (See definition of the *Surface Water Ambient Monitoring Program* in Part VIII for description of program goals and monitoring strategies.) The selection of the monitoring stations shall be the result of a cooperative effort between the permittees, EPA, and the Bureau of Surface Water Management, Florida Department of Environmental Protection (FDEP). ~~Acceptance of the monitoring program components proposed by the permittees in the July 23, 1993, Part 2 application submittal shall be explored before any alternative monitoring programs are introduced.~~ The number of monitoring stations as well as the type of sampling performed shall be established in accordance with the following:
 - a.) The costs associated with the monitoring program developed shall not exceed the projected costs for the monitoring program proposed by the permittees in the July 23, 1993, Part 2 application submittal.
 - b.) The monitoring program developed shall assist in determining the impact of storm water discharges on receiving waters located in the geographical area covered by this permit.
 - c.) The monitoring program developed shall assist in determining the effectiveness of the storm water management programs being implemented under this permit and shall assist in identifying and prioritizing portions of the MS4 requiring additional controls.
 - d.) The monitoring program developed shall be designed to help identify local sources and impacts of specific pollutants considered a problem in the geographic area covered by this permit. Once the source and the impacts are identified, these pollutants may be more effectively reduced or eliminated.
 - e.) The selection of the monitoring stations and sampling program schedule shall be agreed upon by the permittees and the Bureau of Surface Water Management, FDEP and EPA. ~~The monitoring program developed shall be implemented by the permittees within 24 months of the effective date of this permit or within 12 months of the date of program development, whichever is later.~~ The details of the monitoring program shall be submitted to EPA in the subsequent ANNUAL REPORT; status reports shall be given in any Annual Reports prior to this one.

It is the intent of EPA to use the monitoring information collected to evaluate any trends in the reduction in pollutant loads discharged to waters of the U.S. during the term of the permit. The pollutant loading trends will be used to evaluate the effectiveness of the permittees' Storm Water Management Program to reduce the discharge of pollutants to the MEP and be consistent with State Water Policy.

2. *Monitoring Data:* For Part V.B.1., records shall be maintained of all analytical results. ~~Additionally, for the monitoring program developed under Part V.B.1. which involves storm event sampling, the records maintained shall include: the date and duration (in hours) of the storm event(s) sampled; rainfall measurements or estimates (in inches or centimeters) of the storm event which generated the sampled runoff; the duration (in hours) between the storm event sampled and the end of the previous measurable (greater than 0.1 inch or 0.25 centimeter rainfall) storm event; and an estimate of the total volume (in gallons or liters) of the discharge sampled.~~
3. *Sample Analysis:* All samples collected for Part V.B.1. shall be analyzed in accordance with the methods specified at 40 CFR Part 136.
4. *Sampling Waiver.* When a discharger is unable to collect samples required by Part V.B.1. due to adverse climatic conditions, the discharger must submit in lieu of sampling data, a description of why samples could not be collected, including available documentation of the event. Adverse climatic conditions which may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, etc.).

The Sarasota County permittees shall perform the following monitoring program during the permit term. ~~from December 31, 1996, to December 31, 1999.~~

1. **Existing Monthly Bay and Stream Runs.** This monitoring program component consists of long term ambient water quality monitoring.

Stations

- a) The existing County long term monitoring program consists of a total of 40 stations segmented in upper Sarasota Bay (25 stations), Lemon Bay (5 stations), Upper Myakka River (5 stations), and Lower Myakka River (5 stations).
- b) There are two monthly sites: one located at the northern inflow point and one at

the southern inflow point of the former North Port Water Control District boundaries, and two quarterly sites: one at the former water utility intake and one at an inflow point at the extreme portion of the former District.

Parameters and Frequency

- a) Each of the 40 stations is monitored monthly for water temperature, pH, dissolved oxygen demand, color, turbidity, total suspended solids, dissolved nitrate, dissolved nitrite, total nitrite + nitrate, dissolved ammonia, total ammonia, dissolved organic nitrogen, TKN, total nitrogen, orthophosphate, total phosphorus, chlorophyll, and secchi depth. In addition, all stations are measured during one early morning per month for the following in-situ parameters: water temperature, pH, dissolved oxygen, salinity, and specific conductance. Light readings and light extinction coefficients are also determined monthly. Two hydrolabs are deployed per month to record continuous in-situ readings during a 24-hour period for the following parameters: water temperature, pH, specific conductance, salinity, and dissolved oxygen.
 - b) For stations b) above, the monthly and quarterly parameters include: dissolved oxygen, pH, specific conductance, turbidity, total phosphorus, orthophosphate, nitrate, total alkalinity, chloride, copper, iron, ammonia, TKN, sodium, lead and temperature. In addition to the monthly parameters, twice during the rainy season (April-September), a pesticide and herbicide scan shall be conducted.
2. **Monitoring in Big Slough, Hudson Bayou, and Phillippi Creek Basins.** This monitoring program component consists of six stations, each monitored to establish and track baseline conditions within these basins.

Stations

- a) Phillippi Creek Basin: ~~Two stations shall be established;~~ one station along "Main C" upstream of the Celery Fields site at Coburn Road, 50 feet above the weir, and one station located in "Main A" near Bahia Vista Street, 50 feet south of the bridge.
- b) Big Slough Basin: ~~two stations shall be established;~~ one station 100 feet north of the bridge at Interstate 75, and one station 100 yards above the dam near the City of North Port water plant at 5755 North Port Boulevard.
- c) Hudson Bayou: ~~two stations shall be established;~~ one station at the Osprey Avenue Bridge and one station at the Orange Avenue Bridge.

Parameters

- a) Sediment: analyses of sediment cores shall include particle size distribution, aluminum, cadmium, chromium, copper, lead, zinc, total nitrogen, total phosphorus, and total organic carbon.
- b) Surface Water: analyses of surface water grab samples shall include COD, BOD, nitrate + nitrite nitrogen, total Kjeldahl nitrogen, total and dissolved phosphorus, total dissolved solids, cadmium, chromium, copper, lead and zinc. In situ measurements for temperature, pH, dissolved oxygen, and specific conductivity shall be performed.
- c) Biological: Analysis of biological communities shall include Hester-Dendy artificial substrate sampling (freshwater stations) or replicate petite ponar grab sampling (estuarine, marine stations).

Frequency

- a) Sediment: Annually in December at the six stations in Phillippi Creek, Big Slough, and Hudson Bayou.
- b) Surface Water: Twice annually at the six stations in Phillippi Creek, Big Slough, and Hudson Bayou. Sampling to occur once during the dry period (~~April/May~~) and once during the wet period (~~July/August~~).
- c) Biological: Twice annually at the six stations in Phillippi Creek, Big Slough, and Hudson Bayou. Sampling to occur once during the dry period (~~April/May~~) and once during the wet period (~~July/August~~).

All field grab and composite sample collection, in-situ measurements, and laboratory analyses for the monitoring components described herein shall be performed in accordance with the 18th edition of Standard Methods for Examination of Water and Wastewater, Methods for Chemical Analyses for Water and Wastes, and other USEPA approved methodology.

- C. **Annual Report.** Each permittee shall contribute to the preparation of an annual system-wide report to be submitted by no later than six months following the period covered by the report. The ANNUAL REPORT shall cover the 12 month period beginning on the effective date of this permit and annually thereafter.

The preparation and submittal of a system-wide ANNUAL REPORT shall be coordinated by a "committee." The "committee" shall include a member or designated representative from each municipal entity covered by this permit. Each permittee shall be individually responsible for providing information on the portions of the MS4 for which they are the operator and for providing information for the system-wide report in a timely manner. Joint responsibility for the ANNUAL REPORT submission shall be limited to the following: (1) participation in preparation of the overview for the entire system; and (2) inclusion of the identity of any permittee who failed to provide input to the report. Each permittee shall sign and certify the ANNUAL REPORT in accordance with Part VI.H. & VI.I. of this permit, and shall include a statement or resolution that the permittee's governing body or agency (or delegated representative) has reviewed or has been appraised of the content of the ANNUAL REPORT.

The ANNUAL REPORT shall include the following sections:

- Contacts List
- SWMP Evaluation
- Summary Table
- Narrative Report
- Monitoring Section
- Summary of SWMP and Monitoring Modifications
- Fiscal Analysis
- FDOT District Report
- Appendices

The following items describe in more detail the specific requirements for the ANNUAL REPORT.

1. Provide a list of contacts and responsible parties (e.g.: agency, name, phone number) who had input to and are responsible for the preparation of the ANNUAL REPORT.
2. Provide an overall evaluation of the Storm Water Management Program including: Objective of Program; Major Findings (e.g.: water quality improvements or degradation); Major Accomplishments; Overall Program Strengths / Weaknesses; and Future Direction of Program.

3. Provide a Summary Table of Storm Water Management Program Elements.

- a. A Summary Table of appropriate SWMP annual activities for each permittee shall be provided. The purpose of the Summary Table is to document in a concise form the program activities and permittees' compliance status with quantifiable permit requirements. Program elements that are administrative (e.g.: planning procedures, program development and pilot studies) are inappropriate for the summary table and shall be discussed in the narrative section of the ANNUAL REPORT. The following are examples of SWMP activities to be included in the Summary Table:

- (1) Structural Controls - maintenance and/or inspection activities of existing structural controls
- (2) Roadway Maintenance - street sweeping, litter control activities, and maintenance on storm water structures & roadside ditches
- (3) Municipal Waste TSD Facilities - inspections, monitoring, and implementation of control measures
- (4) Pesticide, Herbicide, and Fertilizer Application - certification training and public education
- (5) Illicits - facility inspections, investigations, enforcement actions, illicit (dry weather) screening, illicit public reporting, oil/household hazardous waste collection, and storm sewer inlet stencilling
- (6) High Risk Industrial Facilities - inspection activities and monitoring
- (7) Construction - training of inspectors, certification of construction site operators, inspections, and enforcement actions
- (8) Storm Water Treatment Projects - description of municipal storm water treatment projects that have been completed, including a brief description of the affected drainage basin

- b. The Summary Table shall indicate each permittee's SWMP activities and accomplishments. The format for this information shall adhere to the example shown in Table V.C.1, on page 55. Items to be reported include:
- (1) Activity description;
 - (2) Number of activities (with frequency) that were scheduled for implementation and/or accomplishment in program element discussion (i.e., once/6 months, 100%/5 years, 6 sites monitored once/year, all sites inspected/permit term). Enter "Not Applicable" (N/A) if no specific schedule was specified;
 - (3) Status of schedule for year ("yes" for schedule was adhered to, or "no" for schedule was not adhered to);
 - (4) Number of activities which were accomplished; and
 - (5) The availability of documentation (i.e., inspection reports) for those activities which were accomplished and comments describing the reason(s) for any non-compliance.
4. The ANNUAL REPORT shall contain a Narrative Report to succinctly discuss the SWMP Elements which were not included within the SWMP Summary Table. Those SWMP Elements required to be developed under Parts II and III of the permit shall be discussed within this section of the ANNUAL REPORT following development.
- a. The permittees shall include a brief discussion of the following applicable SWMP Elements:
- (1) Structural Controls Maintenance
 - (2) Development Planning Procedures
 - (3) Roadway Maintenance
 - (4) Flood Management
 - (5) Municipal Facilities
 - (6) Pesticides, Herbicides, and Fertilizers
 - (7) Illicits Inspection/Investigation/Enforcement
 - (8) Field Screening
 - (9) Spill Response

- (10) Public Reporting of Illicit Discharges
- (11) Oil and Household Hazardous Waste
- (12) Sanitary Sewer Seepage
- (13) High Risk Industrial Facility Inspection
- (14) Construction Planing Procedures
- (15) Construction Inspections
- (14) Education Activities
- (15) Monitoring Activities
- (16) Any additional elements of Storm Water Management Program

b. The format for the Narrative Report section of the ANNUAL REPORT shall be a brief discussion of the SWMP Element. The aspects of each permittee's activities concerning a SWMP Element shall be succinctly discussed in the section of the Narrative Report dedicated to that Element. The discussion shall include the following:

- (1) Objective of SWMP Element,
- (2) SWMP Element activities completed and those in progress,
- (3) General discussion of Element. Explanation of all Element activity deficiencies (e.g.: activities described in the program that have not been fully implemented or completed). Results of activities shall be summarized and discussed (e.g.: maintenance caused by inspection, pollutants detected by monitoring, investigations as a result of dry and wet weather screening, number and nature of enforcement items, education activities participation),
- (4) Status of SWMP Element with compliance, implementation, and augmentation schedules in Part III of the permit,
- (5) SWMP Element strengths and weaknesses,
- (6) Assessment of controls, and
- (7) Discussion of Element revisions that are summarized elsewhere in the ANNUAL REPORT.

5. The ANNUAL REPORT shall contain a Monitoring Section which discusses the progress and results of the monitoring programs required under Part V of the permit.
- a. The Monitoring Section of the ANNUAL REPORT shall include a summary of the monitoring program developed and implemented under Part V.B.1. of the permit. The details to be discussed include:
- (1) Brief summary statement of the objective of each monitoring project included under the program,
 - (2) Summary chart of the data from the monitoring completed,
 - (3) Discussion of any results or conclusions derived from the monitoring completed,
 - (4) Status of monitoring with respect to the compliance schedule in Part V.B.1. of the permit, and
 - (5) Discussion of monitoring program revisions that are summarized elsewhere in the ANNUAL REPORT.
- b. The Monitoring Section of the ANNUAL REPORT shall include the following information as required in Part V.A. of the permit:
- (1) The ANNUAL REPORT for ~~Year One of the permit~~ shall contain ~~an inventory of all known major outfalls, with updates~~ describing additionally identified major outfall in each subsequent ANNUAL REPORT.
 - (2) ~~The ANNUAL REPORT for Year Three of the permit shall include the investigation of the sources of the organic pollutants detected in the Part 2 application sampling data as required in Part V.A.2. of the permit.~~
 - (3) The ANNUAL REPORT for Year Four of the permit shall include estimates of seasonal pollutant loadings and event mean concentrations (EMC) for each major watershed required by Part V.A.1.
6. Provide a summary of SWMP and Monitoring Modifications made during the permit year.

7. Provide a complete fiscal analysis for each permittee's program implementation, both for the past calendar year and the next. The analysis shall indicate budgets and funding sources.
8. FDOT shall report on the status of the FDOT statewide Storm Water Management Program elements as shown in Table V.C.8.a. on page 56 and shall indicate whether the resulting program modifications have been implemented at the District Office. In addition, FDOT shall also indicate the number of District employees included in the training courses described in Table V.C.8.b. on page 57.
9. The following information shall be included as Appendices within the ANNUAL REPORT for Year Five of the permit:
 - a. Analytical data collected from the monitoring program.
 - b. Results of illicit connections screening or dry weather screening.
 - c. Any other data specifically requested by EPA to substantiate statements and conclusions reached in the ANNUAL REPORTS.

Table V.C.1. - EXAMPLE Summary Table for Storm Water Management Program Element Status/Compliance (EXAMPLE ONLY)

PROGRAM ELEMENT	PERMITTEE	REQUIREMENT	ACTIVITY SCHEDULE			COMMENTS
			Activities Required by SWMP	Complied with	Activities Accomplished during calendar year	
Structural Controls	Permittee 1	Major Channels Inspected	15 Channels, once/6 mos.	YES	15 Channels, once/6 mos	Copies of Inspection Report Forms - Available Upon Request
		Major Channels Maintained	As needed	N/A	7 Channels maintained	
		Gate Inlets Inspected	1500 Inlets, once/year	NO	1000 Inlets	Ambitious projection. Reducing to 1000 next year due to resources.
	Permittee 2	Detention Ponds Maintained	1 Pond, once/month	YES	1 Pond once/month	Sediment removed after spring rains.
		Storm Drain Inlets Inspected	35 Inlets, once/6 mos.	YES	35 Inlets once/6 mos.	Copies of Inspection Report Forms - Available Upon Request
Monitoring	Permittee 1	Municipal - Landfills POTW	2 Facilities, once/6 mos.	YES	2 Facilities once/6 mos.	Copies of Monitoring Data - Available Upon Request
			3 Facilities, once/year	NO	2 Facilities	Copies of Monitoring Data - Available Upon Request
		Industrial - Hazardous Title III Others	5 Facilities, once/6 mos.	YES	5 Facilities, once/6 mos.	Copies of Monitoring Data - Available Upon Request
			3 Facilities, once/6 mos.	YES	3 Facilities, once/6 mos.	Copies of Monitoring Data - Available Upon Request

			2 Facilities, once/year	YES	2 Facilities	Copies of Monitoring Data - Available Upon Request
		Dry Weather Screening	100% system, once/5 yrs.	YES	20% system	Copies of Screening Field Reports - Appendix B.
		Floatable Assessment	100 sections surveyed/yr.	YES	140 sections surveyed	Copies of Field Survey - Available Upon Request

Table V.C.8.a. - Table for FDOT Statewide Storm Water Management Program Element Status

FDOT STATEWIDE STORM WATER MANAGEMENT PROGRAM ELEMENT (To Be Conducted at State Office)	ACTIVITY ACCOMPLISHED DURING THE PERMIT YEAR?	DESCRIPTION OF RESULTING PROGRAM MODIFICATIONS	PROGRAM POLICY INCORPORATED AT DISTRICT OFFICE?
~~Evaluate the feasibility of the FDOT drainage connection permit becoming an operating permit requiring long term storm water facility management by the connecting entity.~~	~~YES / NO (If no, list anticipated completion date)~~		~~YES / NO (If no, list reason and/or anticipated implementation date.)~~
Add information specific to storm water runoff protection and reduction of chemical usage to the FDOT's <i>Turf Management Manual</i> and <i>Chemical Weed and Grass Control Manual</i> .	YES / NO (If no, list anticipated completion date)		YES / NO (If no, list reason and/or anticipated implementation date.)
Evaluate, on an ongoing basis, innovative structural and non-structural BMPs and new technologies as they evolve to determine their efficiency and cost effectiveness in the field. Comment on those which are found suitable & adopted for use in FDOT projects in the District.	ONGOING ACTIVITY		Describe new BMPs adopted for use in the District.
~~Identify those of the non-storm water discharges listed under Part II.A.7.a. on page 9 of the permit, as well as any other non-storm water discharges, which will be allowed to be discharged into the FDOT MS4.~~	~~YES / NO (If no, list anticipated completion date)~~		~~YES / NO (If no, list reason and/or anticipated implementation date.)~~

Table V.C.8.b. - Table for FDOT Statewide Storm Water Management Program Training Status

FDOT STATEWIDE STORM WATER MANAGEMENT PROGRAM TRAINING (Conducted through State Office)	TRAINING CONDUCTED DURING THE PERMIT YEAR?	DESCRIPTION OF TRAINING COURSE	NO. OF DISTRICT EMPLOYEES COMPLETING TRAINING COURSE?
Conduct training for FDOT maintenance and construction inspectors in the identification and detection of potential storm water related problems, signs of illegal dumping and illicit connections, proper containment methods, and reporting procedures.	YES / NO (If no, give anticipated schedule.)		
Conduct training for the FDOT Emergency Coordinator assigned to each FDOT maintenance facility. Training shall not only educate the FDOT Emergency Coordinator in the proper containment of spills and spill reporting procedures, but shall include storm water remediation activities, storm water regulations, and storm water retrofitting necessary to eliminate polluted storm water discharges from FDOT maintenance facilities.	YES / NO (If no, give anticipated schedule.)		
Conduct training for all FDOT personnel involved in the chemical weed and grass control program to ensure a safe and effective program. Incorporate into the training of these applicators an emphasis on storm water implications of the use of pesticides, herbicides, and fertilizers.	YES / NO (If no, give anticipated schedule.)		

Conduct training for all FDOT personnel involved in hazardous waste handling. Incorporate into the training a segment on the identification, detection, and reporting of illicit storm water connections and potential storm water related problems such as visible water quality degradation and signs of illegal dumping.	YES / NO (If no, give anticipated schedule.)		

D. Certification and Signature of Reports.

All reports required by the permit and other information requested by the Director shall be signed and certified in accordance with Parts VI.II. & VI.I. of the permit.

E. Reporting: Where and When to Submit.

1. As required by Part V.C., monitoring results obtained during the reporting period running from the 12 month term beginning on the effective date of this permit and annually thereafter shall be submitted on Discharge Monitoring Report Form(s) in the ANNUAL REPORT for Year Five of the permit. A separate Discharge Monitoring Report Form is required for each event monitored.
2. Signed copies of the ANNUAL REPORT required by Part V.C. and all other reports required herein, shall be submitted to:

U.S. EPA, Region IV
Water Management Division
Surface Water Permit Section
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303-8909

F. Additional Notification.

In addition, the permittees shall provide a copy of each ANNUAL REPORT to:

Florida Department of Environmental Protection
Bureau of Surface Water Management
Storm Water Section
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

G. Retention of Records.

The permittees shall retain the latest version of the Storm Water Management Program developed in accordance with Part II of this permit for at least three years after the expiration date of this permit. The permittees shall retain all records of all monitoring information, copies of all reports required by this permit, and records of all other data required by or used to demonstrate compliance with this permit, until at least three years after the expiration date of this permit. This period may be explicitly modified by alternative provisions of this permit or extended by request of the Director at any time.

PART VI. STANDARD PERMIT CONDITIONS

A. **Duty to Comply.** The permittees must comply with all conditions of this permit insofar as those conditions are applicable to each permittee, either individually or jointly. Any permit noncompliance by a permittee constitutes a violation of the CWA and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application for the non-complying permittee.

B. Penalties for Violations of Permit Conditions.

1. Criminal

- a. **Negligent Violations** The CWA provides that any person who negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both.
- b. **Knowing Violations** The CWA provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than 3 years, or both.
- c. **Knowing Endangerment** The CWA provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than \$250,000, or by imprisonment for not more than 15 year, or both.
- d. **False Statement** The CWA provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or by both. If a conviction is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or by both. (See Section 309(c)(4) of the Clean Water Act).

2. **Civil Penalties** - The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed \$25,000 per day for each violation.
 3. **Administrative Penalties** - The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows:
 - a. **Class I penalty** Not to exceed \$10,000 per violation nor shall the maximum amount exceed \$25,000.
 - b. **Class II penalty** Not to exceed \$10,000 per day for each day during which the violation continues nor shall the maximum amount exceed \$125,000.
- C. **Duty to Reapply.** If a permittee(s) wishes to continue an activity regulated by this permit after the permit expiration date, the permittee(s) must apply for and obtain a new permit. The application shall be submitted at least 180 days prior to expiration of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated at 40 CFR 122.6 and any subsequent amendments.
- D. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- E. **Duty to Mitigate.** Each permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- F. **Duty to Provide Information.** Each permittee shall furnish to the Director, within a time specified by the Director, any information which the Director may request to determine compliance with this permit. The permittees shall also furnish to the Director upon request copies of records required to be kept by this permit.
- G. **Other Information.** When a permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in any report to the Director, he or she shall promptly submit such facts or information.

H. **Signatory Requirements.** All Discharge Monitoring Reports, storm water management programs, reports, certifications or information either submitted to the Director or that this permit requires be maintained by the permittees, shall be signed by:

1. Either a principal executive officer or ranking elected official; or
2. A duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above and submitted to the Director, and
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
 - c. If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new written authorization satisfying the requirements of this paragraph must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

I. **Certification.** Any person signing documents under this section shall make the following certification:

- a. "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 on 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."

J. **Penalties for Falsification of Reports.** Section 309(c)(4) of the Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or by both.

K. **Penalties for Falsification of Monitoring Systems.** The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by fines and imprisonment described in Section 309 of the CWA.

L. **Oil and Hazardous Substance Liability.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittees from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the CWA or section 106 of CERCLA.

M. **Property Rights.** The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

N. **Severability.** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

O. **Requiring an Individual Permit.**

1. The Director may require any permittee authorized by this permit to obtain an individual NPDES permit. Any interested person may petition the Director to take action under this paragraph. The Director may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form (as necessary), a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit, coverage under this permit shall automatically terminate. Individual permit applications shall be submitted to the address of the appropriate Regional Office shown in Part V.E.2. of this permit. The Director may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application as required by the Director, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified for application submittal.

2. Any owner or operator authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application as specified by 40 CFR 122.26(d) with reasons supporting the request to the Director. Individual permit applications shall be submitted to the address of the appropriate Regional Office shown in Part V.E.2. of this permit. The request may be granted by the issuance of a individual permit if the reasons cited by the owner or operator are adequate to support the request.

P. State/Environmental Laws.

1. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.
2. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

Q. Proper Operation and Maintenance. Each permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of storm water management programs. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

R. Monitoring and Records.

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittees shall retain records of all monitoring information including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of the reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

S. Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- e. The initials or name(s) of the individual(s) who performed the analyses;
- f. References and written procedures, when available, for the analytical techniques or methods used; and
- g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

T. **Monitoring Methods.** Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

U. **Inspection and Entry.** The permittee shall allow the Director or an authorized representative of EPA, or the State, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

V. **Permit Actions.** This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

W. **Additional Monitoring by the Permittee(s).** If the permittees monitor more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report (DMR). Such

increased monitoring frequency shall also be indicated on the DMR.

PART VII. PERMIT MODIFICATION

A. **Modification of the Permit:** The permit may be reopened or modified, at the request of the permittee, to incorporate relevant elements of the Comprehensive Conservation and Management Plan (CCMP) developed through the Sarasota National Estuary Program including, but not limited to, living resource targets and associated pollutant loading targets. If a permit modification is not requested during the term of this permit, elements of the CCMP will be considered for incorporation in the permit renewal. At any time, during the permit term, the permit will not be modified to include the relevant CCMP elements unless EPA and the Florida Department of Environmental Protection have previously agreed to incorporate consistent conditions in any permits or related rules and regulations that might affect the permittee. In addition, the permit may be reopened and modified during the life of the permit to:

1. Address impacts on receiving water quality caused, or contributed to, by discharges from the MS4;
2. Address changes in State or Federal statutory or regulatory requirements;
3. Include the addition of a new permittee who is the owner or operator of a portion of the Municipal Separate Storm Sewer System; or
4. Include other modifications deemed necessary by the Director to comply with the goals and requirements of the Clean Water Act.
5. All modification to the permit will be made in accordance with 40 CFR 122.62, 122.63, and 124.5.

B. **Termination of Coverage for a Single Permittee**

1. Permit coverage may be terminated, in accordance with the provisions of 40 CFR 122.64 and 124.5, for a single permittee without terminating coverage for other permittees.

C. **Modification of Storm Water Management Program(s)**

1. Only those portions of the Storm Water Management Programs specifically required as permit conditions shall be subject to the modification requirements of 40 CFR 124.5. Replacement of an ineffective or infeasible BMP implementing a required component of the Storm Water Management Program with an alternate BMP expected to achieve the goals of the ineffective or infeasible BMP shall be considered minor modifications to the Storm Water Management Program and not modifications to the permit. (See also Part II.G.)

D. Changes in Monitored Outfalls

1. This permit is issued on a system-wide basis in accordance with CWA §402(p)(3)(i) and authorizes discharges from all portions of the Municipal Separate Storm Sewer System. Since all outfalls are authorized, changes in monitoring outfalls, other than those with specific numeric effluent limitations, if any, shall be considered minor modifications to the monitoring program and not modifications to the permit. (See also Part V.B.1. and V.C.6.) Changes in monitoring outfalls with specific numeric effluent limitations shall be considered modifications to the permit and will be made in accordance with the procedures at 40 CFR 122.62.

PART VIII. DEFINITIONS

All definitions contained in Section 502 of the CWA shall apply to this permit and are incorporated herein by reference. Unless otherwise specified in this permit, additional definitions of words or phrases used in this permit are as follows:

- A. "Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
- B. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility, which is not a designed or established operating mode for the facility.
- C. "CWA" means Clean Water Act, also referred to as "the Act" (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 6-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq., as amended by the WQA of 1987, P.L. 100-4, the "Act."
- D. "Director" means the EPA Regional Administrator or an authorized representative.
- E. "Discharge" for the purpose of this permit, unless indicated otherwise, refers to discharges from the Municipal Separate Storm Sewer System (MS4).
- F. "Flow-weighted composite sample" means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge at the time of sampling.
- G. "Illicit connection" means any man-made conveyance connecting a non-storm water discharge directly to a municipal separate storm sewer system.
- H. "Illicit discharge" means any discharge to a municipal separate storm sewer that is not composed entirely of storm water except discharges pursuant to a NPDES permit (other than the NPDES permit for discharges from the municipal separate storm sewer) and other discharges listed in Part II. A.7.a. of this permit.
- I. "Industrial Land Use" means land utilized in connection with manufacturing, processing, or raw materials storage at facilities identified under 40 CFR 122.26(b)(14).
- J. "Landfill" means an area of land or an excavation in which wastes are placed for permanent disposal, and which is not a land application unit, surface impoundment,

injection well, or waste pile.

- K. "Large Municipal Separate Storm Sewer System" means all municipal separate storm sewers that are either:
- i. located in an incorporated place (city) with a population of 250,000 or more as determined by the latest Decennial Census by the Bureau of Census (these cities are listed in Appendices F and G of 40 CFR Part 122); or
 - ii. located in the counties with unincorporated urbanized populations of 250,000 or more, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties (these counties are listed in Appendices H and I of 40 CFR Part 122); or
 - iii. owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the large municipal separate storm sewer system.
- L. "Medium Municipal Separate Storm Sewer System" means all municipal separate storm sewers that are either:
- i. located in an incorporated place (city) with a population of 100,000 or more as determined by the latest Decennial Census by the Bureau of Census (these cities are listed in Appendices F and G of 40 CFR Part 122); or
 - ii. located in the counties with unincorporated urbanized populations of 100,000 or more, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties (these counties are listed in Appendices H and I of 40 CFR Part 122); or
 - iii. owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the medium municipal separate storm sewer system.
- M. "MEP" is an acronym for "Maximum Extent Practicable," the technology-based discharge standard for Municipal Separate Storm Sewer Systems established by CWA §402(p).
- N. "MS4" is an acronym for "municipal separate storm sewer system" and is used to refer to either a Large or Medium Municipal Separate Storm Sewer System (e.g. "the Atlanta MS4").

- O. "Municipal Separate Storm Sewer" means a conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, and storm drains):
- i. owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State Law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State Law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian Tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States;
 - ii. designed or used for collecting or conveying storm water;
 - iii. which is not a combined sewer; and
 - iv. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.
- P. "Permittee" means each individual co-applicant for an NPDES permit who is only responsible for permit conditions relating to the discharge that they own or operate. (Also, See 40 CFR 122.2)
- Q. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.
- R. "Severe property damage" means substantial physical damage to property, damage to the treatment facility which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- S. "State Storm Water Quality Standards", is defined at Section 403.0891 of the Florida Statutes, and State Water Policy, Chapter 62-40, Florida Administrative Code.
- T. "Storm Sewer", unless otherwise indicated, refers to a municipal separate storm sewer.
- U. "Storm Water" means storm water runoff, snow melt runoff, surface runoff and drainage.
- V. "Storm Water Discharge Associated with Industrial Activity" is defined at 40 CFR 122.26(b)(14). (Also, See Fact Sheet for this Permit.)

W. "Storm Water Management Program" refers to a comprehensive program to manage the quality of storm water discharged from the municipal separate storm sewer system. For the purposes of this permit, the Storm Water Management Program is considered a single document, but may actually consist of separate programs (e.g. "chapters") for each permittee.

X. "Surface Water Ambient Monitoring Program" refers to a comprehensive program implemented by the Florida Department of Environmental Protection, Bureau of Surface Water Management, which is designed to accomplish the following goals:

1. Identify and document the existing condition of the surface waters of the State,
2. Document potential problem areas,
3. Establish stream ecoregion reference sites for comparison purposes,
4. Collect biological data at ecoregion reference sites to establish preliminary biological integrity measurements techniques, and
5. Establish a Statewide ambient monitoring network which will eliminate duplication, share data, increase efficiency, and improve assessment and management capabilities.

To date, the monitoring strategies included within the State of Florida's Surface Water Ambient Monitoring Program have been based on:

- Ecoregion Subregionalization and the associated stream Community Bioassessment Protocols (CBA) developed for the nonpoint source program,
- Chemistry Trend Network to fulfill the need to evaluate the State's water quality over time,
- Chemistry Status Network with emphasis on water bodies with fair or poor water quality or areas which have not been recently sampled, and
- Lake Ecoregion and Community Bioassessment Projects.

Y. "SWMP" is an acronym for "Storm Water Management Program."

Z. "Time-weighted composite" means a composite sample consisting of a mixture of equal volume aliquots collected at a constant time interval.

AA. "Waters of the United States" is defined at 40 CFR 122.2.

SARASOTA COUNTY
STORM WATER
NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM
(NPDES)
PERMIT

ISSUED BY

UNITED STATES ENVIRONMENTAL
PROTECTION AGENCY
REGION IV

PERMIT NO. FLS000004
EFFECTIVE
THROUGH

loading - ~~XXXXXX~~

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3. Article Addressed to:

Michael Mitchell, Environmental
Scientist
U.S. Environmental Protection Agency
Water Programs Enforcement Br.
61 Forsyth Street, SW
Atlanta, GA 30303

4a. Article Number

261 690 151

4b. Service type

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☐ Return Receipt for Merchandise ☐ COP

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OCT 18 1999

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 Water Prog. Enforce. Branch
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 Atlanta, GA 30303**

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SARASOTA COUNTY

"Dedicated to Quality Service"

October 14, 1999

Michael Mitchell, Environmental Scientist
U.S. Environmental Protection Agency, Region IV
Water Programs Enforcement Branch
61 Forsyth Street, SW
Atlanta, Georgia 30303

Subject: Sarasota County NPDES Major Municipal Separate Storm Sewer System (MS4)
Permit No. FLS000004

Dear Mr. Mitchell:

As required by Part V.A. of the subject permit, Sarasota County and co-permittees submit the Seasonal Loadings and Event Mean Concentrations report required for year four of the permit term. The enclosed report is an addendum to the annual report that was mailed to you on June 28, 1999.

Please contact John Ryan, Environmental Specialist III, at (941) 378-6128 if you have any questions.

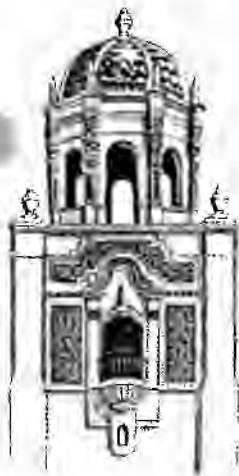
Sincerely,

J. Kent Kimes, P.E.
Manager
Pollution Control

Enclosures

cc: Kenneth Kwan, Compliance and Enforcement, U.S. Environmental Protection Agency,
Region IV, Atlanta
David R. Bullock, Deputy County Administrator
Edward Goscicki, P.E., Executive Director, Environmental Services
Gary S. Comp, General Manager, Natural Resources
J. P. Marchand, P.E., General Manager, Public Works Planning
David R. Sollenberger, City Manager, City of Sarasota
Patrick S. Collins, P.E., City Engineer, City of Venice
T.W. Hunt, P.G., Florida Department of Transportation, District One, Bartow
Juan Florensa, Public Works Director, City of North Port
Martin Black, Community Services Director, Town of Longboat Key

ASC99.352



**SARASOTA COUNTY GOVERNMENT
SARASOTA, FLORIDA**

Natural Resources Department

1301 Cattlemen Road, Bldg. A
Sarasota, Florida 34232
Telephone (941) 378-6113
FAX (941) 378-6067

June 28, 1999

Michael Mitchell, Environmental Scientist
U. S. Environmental Protection Agency, Region IV
Water Programs Enforcement Branch
61 Forsyth Street, SW
Atlanta, Georgia 30303

Subject: Sarasota County NPDES Major Municipal Separate Storm Sewer System (MS4)
Permit No. FLS000004

Dear Mr. Mitchell:

In compliance with Part V.C. of the subject NPDES MS4 permit, Sarasota County and co-permittees submit their annual reports for year four of the permit term covering January 1, 1998 through December 31, 1998. The annual reports for Sarasota County and the City of Sarasota were combined into one. The other co-permittees have supplied separate annual reports. One copy of each annual report has been submitted to the Florida Department of Environmental Protection. Section 5.8, Seasonal Pollutant Loading and Event Mean Concentrations, of the annual report is scheduled to be complete in a few weeks and will be forwarded at that time. Refer to the annual report, Appendix Q, for a copy of the purchase order and scope of services.

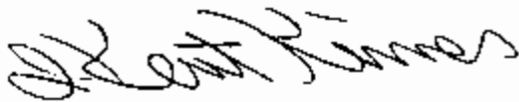
In accordance with Part VI.C., Sarasota County and the co-permittees jointly submit an edited version of the original permit as their renewal application for the next five year permit term. Additions are underlined and deletions are in strike-through type. The page numbers referenced within the renewal application are correct for the previous permit but may not be correct for the edited version. Amendments to the previous permit were added to the text in the renewal

Michael Mitchell, Environmental Scientist
Page Two

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Please contact Laura Lyn Ammeson, Environmental Supervisor, at (941) 378-6128 if you have any questions.

Sincerely,



J. Kent Kimes, P.E.
Manager
Pollution Control Division

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✓ Juan Florensa, Public Works Director, City of North Port
✓ Martin Black, Community Services Director, Town of Longboat Key

ASC99.266

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3. Article Addressed to:

Eric H. Livingston
Environmental Administrator
Florida Department of
Environmental Protection
Division of Water Facilities
200 Blair Stone Road, MS 3570
Tallahassee, FL 32399-2400

4a. Article Number

261 690 152

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Eric H. Livingston
Environmental Administrator

FL Dept. of
Environmental Protection

Div. of Water
Facilities, 200 Blair Stone
Rd., MS 3570, Tallahassee, FL
32399-2400

Certified Fee

Registered Fee

Return Receipt Fee

Insurance Fee (per \$100)

When a Cash On Delivery

Return Receipt for Merchandise

When a Cash On Delivery

TOTAL POSTAGE AND FEES \$

Postage paid by addressee

Sent 10/15/99 nl



SARASOTA COUNTY

"Dedicated to Quality Service"

October 14, 1999

Eric H. Livingston, Environmental Administrator
Florida Department of Environmental Protection
Division of Water Facilities
2600 Blair Stone Road, MS 3570
Tallahassee, Florida 32399-2400

Subject: Sarasota County NPDES Major Municipal Separate Storm Sewer System (MS4)
Permit No. FLS000004

Dear Mr. Livingston:

As required by Part V.A. of the subject permit, Sarasota County and co-permittees submit the Seasonal Loadings and Event Mean Concentrations report required for year four of the permit term. The enclosed report is an addendum to the annual report that was mailed to you on June 28, 1999.

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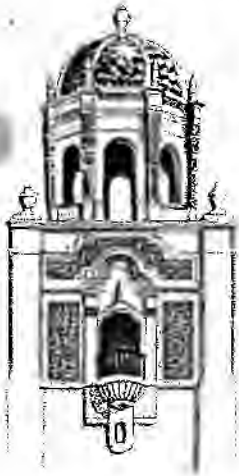
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Pollution Control

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Juan Florensa, Public Works Director, City of North Port
Martin Black, Community Services Director, Town of Longboat Key

ASC99.353



**SARASOTA COUNTY GOVERNMENT
SARASOTA, FLORIDA**

Natural Resources Department

1301 Cattlemen Road, Bldg. A
Sarasota, Florida 34232
Telephone (941) 378-6113
FAX (941) 378-6067

June 28, 1999

Eric H. Livingston, Environmental Administrator
Florida Department of Environmental Protection
Division of Water Facilities
2600 Blair Stone Road, MS 3570
Tallahassee, Florida 32399-2400

Subject: Sarasota County NPDES Major Municipal Separate Storm Sewer System (MS4)
Permit No. FLS000004

Dear Mr. Livingston:

In compliance with Part V.C. of the subject NPDES MS4 permit, Sarasota County and co-permittees submit their annual reports for year four of the permit term covering January 1, 1998 through December 31, 1998. The annual reports for Sarasota County and the City of Sarasota were combined into one. The other co-permittees have supplied separate annual reports. One copy of each annual report was also sent to the U.S. Environmental Protection Agency. Section 5.8, Seasonal Pollutant Loading and Event Mean Concentrations, of the annual report is scheduled to be complete in a few weeks and will be forwarded at that time. Refer to the annual report, Appendix Q, for a copy of the purchase order and scope of services.

In accordance with Part VI.C., Sarasota County and the co-permittees jointly submit an edited version of the original permit as their renewal application for the next five year permit term. Additions are underlined and deletions are in strike-through type. The page numbers referenced within the renewal application are correct for the previous permit but may not be correct for the edited version. Amendments to the previous permit were added to the text in the renewal

Eric H. Livingston, Environmental Administrator
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J. Kent Kimes, P.E.
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ASC99.265

Report

**MS4-NPDES Permit FL00004
Sarasota County & Co-Applicants
Seasonal Loadings
and
EMC Estimates**

October 1999

**MS4-NPDES Permit FL00004
Sarasota County & Co-Applicants
Seasonal Loadings
and
EMC Estimates**

October 1999



MS4-NPDES Permit FL00004 Sarasota County & Co-Applicants Seasonal Loadings and EMC Estimates

Introduction

In accordance with 40 CFR 122.26(d)(2)(iii)(C) Sarasota County's Municipal Separate Storm Sewer (MS4) NPDES permit (FLS000004) requires the County to complete an estimate of seasonal pollutant load estimates and the event mean concentrations (EMC) for a representative storm. Specific requirements of the permit include the following from the Code of Federal Register.

(C) A proposed schedule to provide estimates for each major outfall identified in either paragraph (d)(2) (ii) or (d)(1)(iii)(B)(1) of this section of the seasonal pollutant load and of the event mean concentration of a representative storm for any constituent detected in any sample required under paragraph (d)(2)(iii)(A) of this section:

The permit was subsequently modified (Public Notice 95F0081) to report pollutant load and concentrations for each *major watershed* rather than each *major outfall*. This report describes the methodology used to estimate seasonal loads and EMC's and provides the requisite output in accordance with the County's permit.

Background

Estimates of annual pollutant loading were submitted to USEPA in 1993 with Part 2 of the NPDES application (CDM, 1993). These estimates were made based on 1990 land use information using a spreadsheet model developed by Camp Dresser & McKee Inc. (CDM) called Watershed Management Model (WMM). The model is based the observation that stormwater runoff characteristics vary with land use. In practice, the stormwater loading is calculated as the sum of loadings from various land-uses within a watershed. The land use specific loadings are the product of a land-use specific pollutant concentration and runoff. Details of the calculations can be found in the permit application. The model has been reviewed by EPA (USEPA, 1992) and placed in public domain with the Florida Department of Environmental Protection.

For the present evaluation, the current Windows based version (4.14) of the WMM was used. The Windows version was developed for USEPA's Rouge River Wet Weather Demonstration project and retains all of the functionality of the original DOS-based spreadsheet version. Unlike the previous version, the present WMM is available as an executable model requiring no additional software.

The present evaluation consisted of verifying the 1993 loading estimates using the new version of WMM, followed by estimating the seasonal loads and seasonal event loadings using updated land use and BMP coverage. EMC's were derived from the event loadings by dividing the loadings by the typical event runoff.

Validation of 1993 Estimates

The input data contained in the 1993 permit application was entered in WMM version 4.14 to establish a base model. Land use, EMCs, and hydrology (rainfall, baseflow and runoff coefficients) were taken from the Part 2 application (ibid.). The results are shown in Table 1 and match the 1993 NPDES permit application within rounding error. See Exhibit A for Table 10 of the 1993 NPDES permit application.

Updated Land Use

Over the past decade, the County has been conducting stormwater master plans for the basins. To date, 16 basins have been studied. As part of the master planning process, a water quality assessment using WMM has been conducted for each of the basins. The County provided master plans that were completed after the 1993 NPDES permit application. Those plans, which had updated land use information summarized¹ in tabular format, were used to update the land use for the present evaluation.

Land use changes were directly input in cases where the master plans used the same land use classifications as the 1993 NPDES permit application. Master plans for North Creek, Curry Creek, Hatchett Creek, and Matheny Creek were used as reported.

In other cases, the land use classifications in the master plans were different than those previously used. In several cases, low-density land use was grouped with medium density land use. In another example of consolidation, several of the master plans evaluated industrial and commercial land uses as a single classification. Single classifications were matched to the closest land use classification from the 1993 NPDES permit application. For cases where land uses were consolidated, it was assumed that the ratio of the two land uses within the master plan's grouping remained the same as existed in the previous loading estimate. Table 2 lists all of the land use changes and conversions incorporated into the present evaluation.

Updated BMP Coverage

The County is presently constructing a 392 acre regional extended dry detention facility known as the Celery Fields Regional Stormwater Facility (CFRSF). This facility serves as flood attenuation and water quality treatment for 3,598 acres in upper Phillippi Creek basin. The upstream land uses served by the CFRSF were taken directly from the facility's design report by Boyle Engineering and included with the existing BMPs in the County.

Impact of Land Use Changes

After incorporating the land use changes and the CFRSF in the model, the model was run with all other conditions that were used in the 1993 evaluation. The resultant pollutant loads are shown in Table 3. The total pollutant loads increased slightly despite the additional BMP coverage. This can be attributed to the 6,096 acre increase in watershed area reflected in the master plans and the increased urbanization. In the absence of the new BMP coverage, the loadings would be even greater.

¹ Some of the plans lacked summary tables and/or were too detailed to be useful for the present evaluation. For example, the Gottfried Master Plan listed 31 sub-basins averaging 0.4 mi² each.

Table 1
Total Pollutant Load Estimates from Stormwater and Baseline
Using WMM v 4.14 and Input from the 1993 NPDES Permit Application

Basin Name	BOD (lbs/yr)	Cd (lbs/yr)	COD (lbs/yr)	Cu (lbs/yr)	OP (lbs/yr)	NO23 (lbs/yr)	Pb (lbs/yr)	TDS (lbs/yr)	TKN (lbs/yr)	TP (lbs/yr)	TSS (lbs/yr)	Zn (lbs/yr)
Direct to Bay	21,680	7	120,000	237	973	3,225	64	1,100,000	4,341	1,411	560,000	944
Whitaker Bay	300,000	58	2,100,000	1,288	4,512	8,714	3,313	4,700,000	40,921	9,112	3,600,000	2,451
Hudson Bay	67,299	13	470,000	284	1,013	1,969	713	950,000	9,229	2,130	770,000	503
Philippi Cr	1,600,000	278	10,000,000	5,527	26,194	56,583	7,629	31,000,000	220,000	55,150	21,000,000	10,253
Mathoney Cr	99,987	19	700,000	407	1,548	3,079	935	1,500,000	13,819	3,231	1,200,000	731
Clowers Cr.	48,820	8	320,000	160	699	1,401	343	880,000	6,635	1,478	580,000	337
Catfish Cr	130,000	20	810,000	373	2,347	5,109	884	3,200,000	18,980	4,458	2,100,000	1,102
North Cr.	56,804	7	350,000	109	1,111	2,493	116	1,700,000	8,868	2,176	1,100,000	376
South Cr	280,000	36	1,700,000	659	6,169	14,945	534	9,300,000	44,778	11,346	5,800,000	2,656
Shakett Cr	190,000	30	1,200,000	580	3,895	8,960	628	5,300,000	29,692	7,544	3,400,000	1,573
Curry Cr	160,000	28	1,000,000	523	2,912	6,526	610	3,800,000	22,999	5,744	2,400,000	1,193
Hatchett Cr	120,000	21	800,000	438	2,182	4,787	948	2,700,000	17,584	4,171	1,800,000	1,146
Alligator Cr	240,000	42	1,700,000	879	4,208	9,217	1,234	4,900,000	36,527	9,046	3,400,000	1,668
Woodniere	81,551	14	560,000	293	1,586	3,577	324	1,800,000	12,346	3,187	1,300,000	584
Forked Cr	170,000	28	1,200,000	578	3,502	8,070	707	4,500,000	26,415	6,726	3,100,000	1,458
Godfrey Cr.	160,000	26	1,100,000	521	3,309	7,641	699	4,300,000	25,222	6,374	2,900,000	1,388
Anger Cr	200,000	25	1,200,000	454	4,661	11,292	284	7,000,000	32,715	8,417	4,500,000	1,698
Cow Pen Sl	710,000	103	4,200,000	1,943	16,115	39,904	1,451	24,000,000	110,000	28,603	15,000,000	7,556
Myakka	2,100,000	329	12,000,000	7,191	51,977	140,000	3,557	73,000,000	340,000	90,139	44,000,000	28,255
Deer Pr	380,000	61	2,200,000	1,443	10,935	30,097	430	16,000,000	65,605	17,997	9,400,000	6,569
Big Sough	1,700,000	216	10,000,000	3,955	38,877	94,709	4,182	60,000,000	270,000	68,860	38,000,000	17,531
Little Salt	120,000	19	810,000	406	2,317	5,208	543	2,800,000	17,822	4,517	2,000,000	915
Braden River	190,000	37	760,000	378	2,363	5,221	408	4,700,000	17,570	4,057	1,900,000	1,281
City of Sara	240,000	50	1,700,000	1,203	4,353	10,032	2,586	4,300,000	33,714	8,156	3,200,000	2,867
County N.	170,000	34	1,200,000	816	3,378	8,191	948	3,400,000	25,423	6,866	2,400,000	1,806
City of Ven.	210,000	42	1,700,000	942	3,124	5,870	3,070	3,200,000	27,782	5,861	2,800,000	2,079
County S.	120,000	25	870,000	599	2,660	6,528	526	2,800,000	19,552	5,275	1,900,000	1,284
Longboat	66,873	13	450,000	308	1,496	3,899	349	1,700,000	10,216	2,712	1,100,000	810
City Is and	61,153	14	410,000	366	1,513	4,122	401	1,600,000	9,710	2,639	1,000,000	1,096
Siesta Key	130,000	26	930,000	626	2,486	5,769	760	2,300,000	18,855	4,976	1,800,000	1,155
Casey Key	28,932	6	190,000	181	732	1,972	104	800,000	4,775	1,337	510,000	446
Manasota Key	26,787	5	180,000	125	638	1,612	87	730,000	4,389	1,202	470,000	323
TOTAL (1999)	10,179,886	1,638	62,930,000	33,690	213,795	520,552	39,367	289,940,000	1,546,588	394,549	184,990,000	104,234
TOTAL (1993)	10,128,500	1,630	63,644,500	33,610	213,510	518,900	38,310	288,945,600	1,548,300	394,600	184,546,500	105,930

Table 2
Basins within Sarasota County with Reported Land Use Changes
Since the 1993 NPDES Permit Application

Basin:	Curry Creek (acres)		Hatchett Cr. (acres)		Matheny Cr. (acres)		North Cr. (acres)		Cow Pen Sl. (acres)		Ainger Cr. (acres)	
Land Use	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹
Forest/Open	1,221	1,907	1,424	1,485	245	163	649	644	9,697	7,730	6,255	3,861
Pasture/Range Land	1,140	1,575	115	70	-	-	100	151	12,295	3,924	1,147	-
Agriculture/Cropland	-	-	-	-	-	-	-	-	-	17,018	-	-
LDSF Residential	554	696	241	118	84	70	174	704	2,239	2,230	604	697
MDSF Residential/Inst.	610	227	408	14	913	966	179	230	143	245	65	-
HDSF/MF Residential	361	768	387	743	164	206	29	125	122	121	7	-
Commercial/CBD	7	59	192	233	200	143	-	20	-	-	-	-
Light Industrial	43	45	85	95	95	129	27	97	154	-	27	188
Water	567	867	539	544	31	8	200	337	6,914	9,075	1,654	562
Major Highway	93	260	14	73	-	38	-	24	54	115	-	-
Extractive	79	-	-	-	-	-	-	-	197	13	-	-
TOTAL	4,665	6,405	3,405	3,375	1,732	1,723	2,358	2,332	31,819	40,471	9,759	5,308

Basin	Godfrey Cr. (acres)		Forked Cr. (acres)		South Cr. (acres)		Hudson Bay (acres)		Woodmere Cr. (acres)		TOTAL (acres)		
Land Use	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	Change
Forest/Open	3,266	4,347	2,483	3,490	5,815	9,008	37	104	1,071	167	33,163	32,906	-257
Pasture/Range Land	160	-	891	-	3,464	-	-	-	101	-	19,417	5,720	-13,697
Agriculture/Cropland	-	-	-	-	-	-	-	-	-	-	-	17,018	17,018
LDSF Residential	338	285	813	487	223	122	-	-	119	105	5,389	5,515	126
MDSF Residential/Inst.	926	782	556	333	905	495	741	608	619	546	6,065	4,446	-1,619
HDSF/MF Residential	30	228	147	336	42	104	53	70	174	187	1,516	2,888	1,372
Commercial/CBD	131	275	42	175	30	210	197	227	13	30	812	1,372	560
Light Industrial	20	42	-	-	31	217	9	10	12	10	503	834	331
Water	832	1,295	873	1,035	2,262	2,550	1	2	266	148	14,139	16,423	2,284
Major Highway	-	-	83	-	18	-	-	-	-	-	252	510	258
Extractive	-	-	17	-	-	-	-	-	-	-	293	13	-280
TOTAL	5,703	7,255	5,905	5,856	12,790	12,706	1,038	1,021	2,375	1,193	81,549	87,645	6,096

¹Present is defined as the land uses according to the most recent basin master plan

Table 3
WMM 4.14 Loading Estimates (Stormwater and Baseflow)
Using 1993 NPDES Part II Permit Application Data with Updated Land Use and the CFRSF

Basin Name	BOD (lbs/yr)	Cd (lbs/yr)	COD (lbs/yr)	Cu (lbs/yr)	DP (lbs/yr)	NO23 (lbs/yr)	Pb (lbs/yr)	TDS (lbs/yr)	TKN (lbs/yr)	TP (lbs/yr)	TSS (lbs/yr)	Zn (lbs/yr)
Direct to Bay	21,680	7	120,000	237	973	3,225	64	1,100,000	4,341	1,411	560,000	944
Whitaker Bay	300,000	58	2,100,000	1,208	4,512	8,714	3,313	4,700,000	40,921	9,112	3,600,000	2,451
Hudson Bay	67,299	13	470,000	284	1,013	1,969	713	950,000	5,229	2,130	770,000	503
Philippi Cr.	1,500,000	263	10,000,000	5,282	28,794	50,583	6,989	31,000,000	220,000	54,294	19,000,000	9,893
Matney Cr.	100,000	20	750,000	435	1,600	3,154	691	1,500,000	14,362	3,354	1,300,000	752
Clowers Cr.	48,820	8	320,000	160	699	1,401	343	860,000	6,635	1,478	580,000	337
Catfish Cr.	130,000	20	810,000	371	2,347	5,109	884	3,200,000	18,980	4,459	2,100,000	1,102
North Cr.	83,943	15	570,000	313	1,528	3,412	478	1,900,000	12,573	3,091	1,200,000	716
South Cr.	280,000	36	1,700,000	659	5,169	14,945	534	9,300,000	44,778	11,346	5,800,000	2,656
Shakelt Cr.	190,000	30	1,200,000	580	3,895	8,990	628	5,300,000	29,692	7,544	3,400,000	1,573
Curry Cr.	210,000	33	1,400,000	662	3,808	8,593	928	5,000,000	30,252	7,363	3,400,000	1,781
Hatchett Cr.	130,000	23	890,000	493	2,293	4,905	1,231	2,700,000	18,045	4,166	2,000,000	1,281
Alligator Cr.	240,000	42	1,700,000	879	4,208	9,217	1,234	4,900,000	35,527	9,046	3,400,000	1,668
Woodmere	81,551	14	560,000	293	1,586	3,577	324	1,800,000	12,346	3,187	1,300,000	684
Forked Cr.	170,000	28	1,200,000	578	3,502	8,070	707	4,500,000	26,415	6,726	3,100,000	1,458
Godfrey Cr.	160,000	26	1,100,000	521	3,309	7,641	699	4,300,000	25,222	6,374	2,900,000	1,388
Ainger Cr.	200,000	25	1,200,000	454	4,661	11,292	284	7,000,000	32,715	8,417	4,500,000	1,898
Cow Pen Sl.	830,000	115	5,000,000	2,294	32,833	69,903	1,407	30,000,000	210,000	69,795	19,000,000	9,400
Myakka	2,100,000	329	12,000,000	7,191	51,977	140,000	3,557	73,000,000	340,000	90,139	44,000,000	28,255
Deer Pr.	380,000	61	2,200,000	1,443	10,935	30,097	430	16,000,000	65,605	17,997	9,400,000	6,569
Big Sough	1,700,000	216	10,000,000	3,956	38,877	94,709	4,182	60,000,000	270,000	68,660	38,000,000	17,531
Little Salt	120,000	19	810,000	406	2,317	5,208	543	2,800,000	17,822	4,517	2,000,000	915
Straden River	190,000	37	760,000	378	2,363	5,221	408	4,700,000	17,570	4,057	1,900,000	1,281
City of Sara	240,000	50	1,700,000	1,203	4,363	10,032	2,586	4,300,000	33,714	8,156	3,200,000	2,867
County N.	170,000	34	1,200,000	816	3,378	8,191	948	3,400,000	25,423	6,686	2,400,000	1,806
City of Ven	210,000	42	1,700,000	942	3,124	5,870	3,070	3,200,000	27,782	5,851	2,800,000	2,079
County S.	120,000	25	870,000	590	2,660	6,528	526	2,800,000	19,552	5,275	1,900,000	1,284
Longboat	66,873	13	450,000	308	1,496	3,699	349	1,700,000	10,216	2,712	1,100,000	810
City Island	61,153	14	410,000	366	1,513	4,122	401	1,600,000	9,710	2,630	1,000,000	1,096
Sesta Key	130,000	26	930,000	626	2,486	5,769	760	2,300,000	18,855	4,976	1,800,000	1,155
Casey Key	28,932	6	190,000	161	732	1,972	104	800,000	4,779	1,337	510,000	446
Manasota Key	25,787	5	180,000	125	638	1,612	87	730,000	4,389	1,202	470,000	323
TOTAL (1999)	10,287,036	1,653	64,490,000	34,222	231,989	553,730	39,582	297,340,000	1,658,450	437,407	188,390,000	106,722
TOTAL (1993)	10,128,500	1,630	63,644,500	33,610	213,510	516,900	39,310	288,945,600	1,548,300	394,600	184,546,500	105,930

CDM Camp Dresser & McKee

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07/07/1999

Seasonal Loads

In order to evaluate seasonal loads, four gages with long-term (ca. >30 years) rainfall records were identified. Daily rainfall data from 01/01/68 to 12/31/97 was obtained from SWFWMD for the following stations: Bradenton ESE, Myakka River State Park, Sarasota-Bradenton International Airport (no 1968 data), and Venice NWS. The number of days with usable data within the evaluation period was totaled for each month and each station. Each station's total was then divided by the number of days in the time frame to obtain the percentage of record completeness. Inspection of the records indicated fair to good completeness as shown in Table 4. The total number of rain events for each station is listed in Table 4, as well as the calculated average number of events per month.

The data was then tabulated into annual totals and monthly averages for each station. Initially, it was planned to area weight the results (e.g. Thiessen polygons), but the results among the stations were within 10 percent of the average and weighting was considered unnecessary. Also, despite the fair data completeness, the Venice station data was retained due to the similarity with the other stations in all subsequent calculations. Given the close similarities, the station averages were combined to yield average rainfall totals for each month. Based on the results, the "wet" season was defined as June through September (31.7 inches), while the "dry" season consists of the remaining 8 months which produce 21.6 inches of rainfall on average. Table 5 displays the annual, seasonal and monthly average rainfall for the four stations and the 30-year period of record.

The total annual baseflow was assumed to remain the same (5.8 inches per year) as reported in 1993. This total was proportioned between the dry and wet seasons by multiplying the total yearly baseflow by the ratio of average seasonal rainfall to average yearly rainfall. This resulted in a wet season baseflow of 3.5 inches and a dry season baseflow of 2.3 inches.

Using the seasonal rainfall as previously described, baseflow, updated land use and updated BMP coverage, the seasonal loads were estimated. The estimated dry season pollutant loads are given in Table 6, while Table 7 illustrates the corresponding wet season loads. As only the rainfall and baseflow varies, the loadings are proportional to the seasonal rainfall totals with approximately 60 percent of the annual loading being produced during the four month wet season.

Seasonal Event Loads and EMCs

In order to estimate "representative" storm loadings and EMCs, the number of storm events must be determined. The total number of days with rain was taken as a surrogate for a rain "event". Results for each station and month were previously developed in Table 4. The average number of events per month was determined for each station by dividing the total number of events per month, by the total number of days with data per month, and multiplying by the number of days in that month as shown below:

Calculation of the average number of events at the Bradenton station for January.

$$\text{Avg \# Jan events} = \frac{197 \text{ events in Jan}}{930 \text{ days w/ data in Jan}} \times 31 \text{ days in Jan} = 6.6 \text{ events/January}$$

Table 4
Total Number of Days with Usable Rainfall Data, Rain Events,
and Average Number of Rain Events Per Month

Month	Station											
	Bradenton			Myakka			SaraBrad			Venice		
	Data	Events	Avg. # of Events	Data	Events	Avg. # of Events	Data	Events	Avg. # of Events	Data	Events	Avg. # of Events
Jan	930	197	6.6	930	161	5.4	899	178	6.1	720	163	7.0
Feb	822	169	5.8	847	153	5.1	819	167	5.8	684	144	5.9
Mar	930	182	6.1	929	164	5.5	890	182	6.3	690	144	6.5
Apr	900	139	4.6	870	114	3.9	870	117	4.0	668	101	4.5
May	930	185	6.2	899	165	5.7	899	157	5.4	689	152	6.8
Jun	900	367	12.2	885	385	13.1	870	298	10.3	837	244	11.5
Jul	930	450	15.0	930	472	15.7	899	377	13.0	660	294	13.8
Aug	930	480	16.0	928	471	15.7	899	423	14.6	689	334	15.0
Sep	900	385	12.8	900	363	12.1	870	358	12.3	667	306	13.8
Oct	930	204	6.8	929	194	6.5	837	170	6.3	720	189	8.1
Nov	900	170	5.7	900	136	4.5	870	146	5.0	668	134	6.0
Dec	930	174	5.8	929	129	4.3	806	155	6.0	720	128	5.5
Total Days of Usable Data	10,932	3,102	104	10,876	2,907	97	10,437	2,728	96	8,212	2,333	104.6
Days of Operation	10,959	-	-	10,959	-	-	10,593	-	-	10,959	-	-
% Complete	99.75%	-	-	99.24%	-	-	95.24%	-	-	74.93%	-	-
Dry Season	-	-	47.5	-	-	40.9	-	-	44.9	-	-	50.5
Wet Season	-	-	56.1	-	-	56.6	-	-	50.2	-	-	54.2

Table 5
Average Rainfall in Inches Per Month From 01/01/68 to 12/31/97
Wet Season Defined as June Through September
Dry Season Defined as October Through May

Month	Station				Average
	Bradenton	Myakka	SaraBrad	Venice	
Jan	2.7	2.9	2.6	2.5	2.7
Feb	2.6	2.6	2.6	2.3	2.5
Mar	3.6	3.5	3.6	3.5	3.6
Apr	1.8	2.1	2.2	1.9	2.0
May	3.2	3.5	2.4	2.5	2.9
Jun	8.0	9.3	6.1	6.6	7.5
Jul	8.8	9.6	6.8	6.8	8.0
Aug	9.3	9.3	7.9	8.4	8.7
Sep	7.1	7.9	7.6	7.2	7.5
Oct	3.2	3.2	2.8	3.5	3.2
Nov	2.3	2.2	2.2	2.1	2.2
Dec	2.5	2.4	2.9	2.3	2.5
TOTAL	55.1	58.6	49.7	49.6	53.2
Wet - Avg	33.2	36.1	28.3	29.0	31.7
Dry - Avg	21.8	22.5	21.3	20.7	21.6

Table 6
Estimated Total Dry Season (Oct - May)
Pollutant Loads from Stormwater and Baseflow with Updated Land Use and BMPs Included

Basin Name	BOD (lbs/season)	Cd (lbs/season)	COD (lbs/season)	Cu (lbs/season)	DIP (lbs/season)	NO23 (lbs/season)	Pb (lbs/season)	TDS (lbs/season)	TKN (lbs/season)	TP (lbs/season)	TSS (lbs/season)	Zn (lbs/season)
Direct to Bay	8,143	3	45,910	88	363	1,212	24	410,000	1,649	535	210,000	353
Whitaker Bay	110,000	22	790,000	450	1,703	3,280	1,235	1,800,000	15,358	3,428	1,400,000	910
Hudson Bay	24,441	5	170,000	100	363	886	285	350,000	3,303	741	280,000	193
Philippi Cr	570,000	99	3,800,000	1,970	9,948	21,364	2,600	12,000,000	82,901	20,477	7,100,000	3,733
Matherney Cr	39,006	8	280,000	162	603	1,186	369	590,000	5,387	1,261	470,000	282
Crowers Cr	18,240	3	120,000	65	265	529	128	330,000	2,495	557	220,000	127
Callish Cr	48,346	8	300,000	138	897	1,938	330	1,200,000	7,188	1,696	800,000	417
North Cr	31,406	6	210,000	117	581	1,289	179	710,000	4,745	1,170	450,000	270
South Cr	110,000	16	650,000	290	2,437	5,802	478	3,600,000	17,298	4,295	2,200,000	1,196
Shakelt Cr	71,815	11	460,000	216	1,431	3,410	235	2,000,000	11,263	2,870	1,300,000	596
Curry Cr	77,440	12	520,000	247	1,453	3,253	340	1,900,000	11,443	2,794	1,300,000	642
Hatchett Cr	49,306	9	330,000	184	870	1,852	459	1,000,000	6,806	1,577	740,000	481
Alligator Cr	91,089	16	620,000	328	1,598	3,480	460	1,900,000	13,764	3,417	1,300,000	629
Woodmere	21,508	4	150,000	95	395	874	114	380,000	3,179	822	290,000	158
Forked Cr	60,722	10	390,000	191	1,271	2,976	213	1,700,000	9,392	2,380	1,100,000	563
Godfrey Cr	76,751	12	480,000	240	1,556	3,597	401	2,100,000	11,772	2,905	1,300,000	747
Anger Cr	49,936	7	300,000	112	1,015	2,284	177	1,500,000	7,658	1,892	940,000	387
Cow Pen Sl.	270,000	30	1,600,000	725	6,189	15,147	544	9,200,000	42,054	10,935	5,400,000	2,862
Myakka	770,000	126	4,600,000	2,683	19,924	51,662	1,334	28,000,000	130,000	34,424	17,000,000	10,669
Deer Pt	140,000	23	820,000	538	4,195	11,397	162	6,000,000	25,050	6,887	3,500,000	2,478
Big Slough	640,000	83	3,900,000	1,475	14,965	36,012	1,566	23,000,000	100,000	26,303	14,000,000	6,653
Little Salt	44,750	7	300,000	151	883	1,970	203	1,100,000	6,740	1,713	750,000	346
Braden River	71,495	14	280,000	141	905	1,982	153	1,800,000	6,668	1,548	720,000	483
City of Sara.	88,825	19	620,000	448	1,646	3,768	964	1,600,000	12,663	3,669	1,200,000	1,074
County N	52,058	13	430,000	304	1,278	3,081	353	1,300,000	9,570	2,520	880,000	679
City of Ven.	79,884	16	630,000	351	1,177	2,207	1,145	1,200,000	10,420	2,204	1,100,000	778
County S	46,422	9	330,000	223	1,009	2,458	196	1,100,000	7,372	1,992	710,000	483
Longboat	25,036	5	170,000	115	568	1,395	130	550,000	3,862	1,027	430,000	305
City Island	22,886	5	150,000	137	573	1,550	150	630,000	3,665	994	380,000	411
Siesta Key	47,783	10	350,000	233	939	2,168	283	880,000	7,088	1,873	670,000	433
Casey Key	10,834	2	72,507	60	278	743	39	310,000	1,806	506	190,000	167
Manasota Key	10,035	2	67,382	47	243	608	33	280,000	1,661	456	170,000	122
TOTAL	3,787,156	624	23,935,799	12,620	81,585	195,140	15,288	110,520,000	584,230	149,268	68,500,000	39,635

Table 7
Estimated Total Wet Season (June - Sept)
Pollutant Loads from Stormwater and Baseflow with Updated Land Use and BMPs Included

Basin Name	BOD (lbs/season)	Cd (lbs/season)	COD (lbs/season)	Cu (lbs/season)	OP (lbs/season)	NO23 (lbs/season)	Pb (lbs/season)	TDS (lbs/season)	TKN (lbs/season)	TP (lbs/season)	TSS (lbs/season)	Zn (lbs/season)
Direct to Bay	12,037	4	67,490	130	547	1,787	35	620,000	2,448	794	310,000	520
Whiskey Bay	170,000	32	1,200,000	661	2,518	4,841	1,813	2,700,000	22,633	5,059	2,000,000	1,353
Hudson Bay	35,903	7	250,000	147	535	1,012	418	530,000	4,865	1,093	410,000	284
Phillippi Cr.	830,000	146	5,500,000	2,891	14,761	31,600	3,819	18,000,000	120,000	30,299	10,000,000	5,620
Matheney Cr.	57,307	11	410,000	238	891	1,740	542	970,000	7,937	1,859	680,000	415
Clowers Cr.	26,809	5	170,000	87	393	782	188	490,000	3,681	824	320,000	187
Calfish Cr.	71,156	11	440,000	203	1,337	2,875	485	1,900,000	10,651	2,519	1,200,000	616
North Cr.	46,197	8	310,000	172	864	1,908	262	1,100,000	7,017	1,732	660,000	398
South Cr.	160,000	23	950,000	426	3,847	8,512	702	5,500,000	26,709	6,401	3,200,000	1,772
Shakett Cr.	110,000	17	680,000	318	2,223	5,057	345	3,100,000	16,706	4,266	1,900,000	884
Curry Cr.	110,000	18	770,000	363	2,162	4,819	509	2,900,000	16,943	4,146	1,800,000	950
Hatchett Cr.	72,505	13	490,000	270	1,292	2,740	674	1,600,000	10,060	2,336	1,100,000	710
Alligator Cr.	130,000	24	910,000	481	2,372	5,148	676	2,800,000	20,335	5,055	1,800,000	930
Woodmere	31,613	6	230,000	139	584	1,290	168	570,000	4,690	1,214	420,000	234
Forked Cr.	89,423	14	570,000	281	1,894	4,410	313	2,600,000	13,927	3,535	1,600,000	834
Godfrey Cr.	110,000	18	700,000	352	2,318	5,332	588	3,200,000	17,453	4,317	2,000,000	1,105
Ainger Cr.	72,092	10	440,000	165	1,517	3,383	260	2,300,000	11,375	2,818	1,400,000	574
Cow Pen St	390,000	58	2,300,000	1,065	9,247	22,476	800	14,000,000	52,554	16,294	8,000,000	4,241
Myakka	1,100,000	187	6,700,000	3,940	29,737	76,563	1,966	43,000,000	190,000	51,265	24,000,000	15,762
Dear Pt.	210,000	35	1,200,000	791	6,265	16,888	239	9,100,000	37,302	10,269	5,100,000	3,664
Big Sough	950,000	124	5,700,000	2,169	22,390	53,493	2,305	35,000,000	150,000	39,243	21,000,000	9,871
Little Salt	65,850	11	440,000	222	1,313	2,918	298	1,600,000	9,388	2,540	1,100,000	512
Braden River	110,000	20	420,000	207	1,349	2,941	224	2,700,000	9,894	2,304	1,100,000	715
City of Sara	130,000	28	920,000	658	2,433	5,557	1,415	2,400,000	18,672	4,531	1,700,000	1,580
County N	91,244	19	640,000	446	1,892	4,547	519	2,000,000	14,128	3,724	1,300,000	999
City of Ven	120,000	23	920,000	515	1,739	3,257	1,680	1,800,000	15,350	3,252	1,500,000	1,145
County S	68,281	14	480,000	328	1,495	3,631	298	1,500,000	10,898	2,946	1,000,000	713
Longboat	36,839	7	250,000	169	844	2,062	191	970,000	5,717	1,522	630,000	450
City Island	33,670	8	220,000	201	850	2,287	220	940,000	5,420	1,471	560,000	605
Siesta Key	70,234	14	510,000	343	1,388	3,198	416	1,300,000	10,456	2,765	980,000	639
Casey Key	15,946	3	110,000	68	412	1,097	57	460,000	2,674	749	280,000	247
Manasota Key	14,773	3	98,980	68	361	900	48	420,000	2,461	675	260,000	180
TOTAL	5,541,829	921	34,996,470	18,534	121,565	289,140	22,463	168,070,000	861,935	221,817	99,310,000	58,629

From Table 4 it is apparent that the June through September wet season has more rain events, which corresponds to the higher total rainfall previously reported in Table 5. The wet season average for all four stations was 54.2 events, totaling 31.7 inches of rain per season, while the dry season (October through May) average was 45.9 events, totaling 21.6 inches of rain per season.

The seasonal event pollutant loads are the pollutant loads attributed to a typical seasonal "event". These were calculated by dividing the seasonal loads (Table 6 or 7) by the average number of events per corresponding season (Table 4). Table 8 contains the flows and pollutant loads per event for the dry season and Table 9 is the corresponding table for the wet season. The results indicate that the typical wet season event contributes approximately 20 percent more pollutants than the typical dry season event. This can be attributed to the roughly 20 percent greater rainfall per event in the wet season.

In turn, the EMC's were determined by dividing the seasonal loads by the seasonal flows (Table 8 or 9). The results can be seen in Table 10 for the dry season and Table 11 for the wet season. An EMC calculation for wet season BOD is illustrated below:

Example calculation for the Direct to Bay BOD EMC for the wet season:

$$\frac{222 \text{ lb BOD/event}}{33 * 10^6 \text{ L/event}} * \frac{10^6 \text{ mg}}{2.204 \text{ lb}} = 3.0 \text{ mg/L BOD}$$

As expected, a comparison of the dry and wet season results indicates that the EMC is approximately the same in both seasons. More sophisticated models capable of simulating individual events are required to further resolve individual EMC differences. However, it should be noted that one of the conclusions of the Nationwide Urban Runoff Program (USEPA, 1983) was that there is no significant relationship between EMC's and runoff volume. Within the context of those findings, the WMM results are reasonable for seasonal estimates.

Summary

In accordance with permit requirements, the seasonal load and EMC of a typical storm event have been estimated for each basin in Sarasota County. The results indicate that for every basin the wet season produces a higher seasonal pollutant load than the dry season. This can largely be attributed to the wet season's larger number of events and its greater rainfall per event.

Table 6
Estimated Dry Season (Oct. - May)
Event Pollutant Loads from Stormwater and Baseflow with Updated Land Uses and BMPs Included

Basin Name	Flow (ac-ft/event)	BOD (lbs/event)	Cd (lbs/event)	COD (lbs/event)	Cr (lbs/event)	DP (lbs/event)	NO23 (lbs/event)	Pb (lbs/event)	TDS (lbs/event)	TKN (lbs/event)	TP (lbs/event)	TSS (lbs/event)	Zn (lbs/event)
Direct to Bay	1,006	177	0.07	1,000	1.9	8	26	0.5	8,932	36	12	4,575	7.7
Whitaker Bay	4,641	2,397	0.48	17,217	9.8	37	71	26.9	39,216	335	75	30,501	20.0
Hudson Bay	1,001	532	0.11	3,704	2.2	8	15	6.2	7,625	72	16	6,100	4.2
Philippi Cr.	26,824	12,418	2.16	82,789	42.9	217	405	56.6	261,438	1,806	446	154,684	81.3
Matheny Cr.	1,580	850	0.17	6,100	3.5	13	26	6.0	12,854	117	27	10,240	6.1
Clowers Cr.	850	397	0.07	2,614	1.3	6	12	2.8	7,190	54	12	4,793	2.8
Catfish Cr.	2,747	1,053	0.17	6,536	3.0	20	42	7.2	26,144	157	37	17,429	9.1
North Cr.	1,649	684	0.13	4,575	2.5	13	28	3.9	15,468	103	25	9,804	5.9
South Cr.	7,221	2,397	0.35	14,161	6.3	53	125	10.4	78,431	377	94	47,930	26.1
Shakett Cr.	4,208	1,555	0.24	10,622	4.7	32	74	5.1	43,573	245	63	28,322	13.0
Curry Cr.	4,308	1,687	0.26	11,329	5.4	32	71	7.5	41,394	249	61	28,322	14.0
Hatchell Cr.	2,536	1,074	0.20	7,190	4.0	19	40	10.0	21,786	148	34	16,122	10.5
Alligator Cr.	4,417	1,985	0.35	13,508	7.1	35	76	10.0	41,394	300	74	28,322	13.7
Woodmere	1,667	469	0.09	3,268	2.1	9	19	2.5	8,279	69	18	6,318	3.4
Forked Cr.	3,572	1,323	0.22	8,497	4.2	28	65	4.6	37,037	205	52	23,965	12.3
Godfrey Cr.	3,538	1,672	0.26	10,458	5.2	34	78	8.7	45,752	256	63	28,322	16.3
Ainger Cr.	5,316	1,096	0.15	6,536	2.4	22	49	3.9	32,680	167	41	20,479	8.4
Cow Pen Sl.	22,719	5,882	0.85	34,858	15.8	135	330	11.9	200,436	916	236	117,647	62.4
Myakka	57,738	16,776	2.75	100,218	58.5	434	1,126	20.1	610,022	2,832	750	370,370	232.4
Deer Pt.	12,327	3,050	0.50	17,865	11.7	91	248	3.5	130,719	546	150	76,253	54.0
Big Sough	45,593	13,943	1.81	84,967	32.7	326	785	34.1	501,089	2,179	573	306,011	144.9
Little Salt	2,391	975	0.15	6,536	3.3	19	43	4.4	23,965	147	37	16,340	7.5
Braden River	2,729	1,558	0.31	6,100	3.1	20	43	3.3	39,216	145	34	15,686	10.5
City of Sara	4,388	1,935	0.41	13,508	9.8	36	82	21.0	34,858	276	67	26,144	23.4
County N.	3,271	1,352	0.28	9,368	6.6	28	67	7.7	28,322	208	55	19,172	14.8
City of Ven.	3,417	1,740	0.35	13,725	7.6	26	48	24.9	26,144	227	48	23,965	16.9
County S.	2,500	1,011	0.20	7,190	4.9	22	54	4.3	23,965	161	43	15,468	10.5
Longboat	1,492	545	0.11	3,704	2.5	12	30	2.8	14,161	64	22	9,368	6.6
City Island	1,546	499	0.11	3,268	3.0	12	34	3.3	13,725	80	22	8,279	9.0
Siesta Key	2,240	1,041	0.22	7,625	5.1	20	47	6.2	19,172	154	41	14,597	9.4
Cascoy Key	718	236	0.04	1,580	1.3	6	16	0.8	6,754	39	11	4,139	3.6
Manasota Key	621	219	0.04	1,468	1.0	5	13	0.7	6,100	36	10	3,704	2.7
TOTAL	240,940	82,539	13.59	521,477	274.9	1,777	4,251	333.1	2,407,843	12,728	3,252	1,492,375	863.5

Table 9
Estimated Wet Season (June-Sept)
Event Pollutant Loads from Stormwater and Baseflow with Updated Land Uses and BMPs Included

Basin Name	Flow (ac-ft/event)	BOD (lbs/event)	Cd (lbs/event)	COF (lbs/event)	Cu (lbs/event)	OP (lbs/event)	NO23 (lbs/event)	Pb (lbs/event)	TDS (lbs/event)	TKN (lbs/event)	TP (lbs/event)	TSS (lbs/event)	Zn (lbs/event)
Direct to Bay	1,487	222	0.37	1,245	2.4	10	33	0.6	11,439	45	15	5,720	9.6
Whitaker Bay	7,140	3,137	0.59	22,140	12.2	46	80	33.5	49,815	418	93	36,900	25.0
Hudson Bay	1,453	682	0.13	4,613	2.7	10	19	7.7	9,779	90	20	7,565	5.2
Philippi Cr.	39,609	15,314	2.69	101,476	53.3	272	583	70.5	332,103	2,214	559	184,502	101.8
Matheney Cr.	2,344	1,057	0.20	7,505	4.4	16	32	10.0	16,952	146	34	12,546	7.7
Clowers Cr.	1,255	495	0.09	3,137	1.6	7	14	3.5	9,041	68	15	5,904	3.5
Catfish Cr.	4,026	1,313	0.20	8,118	3.7	25	53	8.9	35,055	197	46	22,140	11.4
North Cr.	2,439	852	0.15	5,720	3.2	16	35	4.8	20,295	129	32	12,177	7.3
South Cr.	11,059	2,952	0.42	17,528	7.9	67	159	13.0	101,476	474	118	59,041	32.7
Shakett Cr.	6,240	2,030	0.31	12,546	5.9	41	93	6.4	57,196	308	79	35,055	16.3
Curry Cr.	6,378	2,030	0.33	14,267	6.7	40	89	9.4	53,506	313	76	33,210	17.5
Hatchett Cr.	3,749	1,338	0.24	9,041	5.0	24	51	12.4	29,520	186	43	20,295	13.1
Alligator Cr.	6,532	2,399	0.44	16,790	8.9	44	95	12.5	51,661	375	93	33,210	17.2
Woodmire	1,423	583	0.11	4,244	2.6	11	24	3.1	10,517	87	22	7,749	4.3
Forked Cr.	5,438	1,650	0.25	10,517	5.2	35	81	5.8	47,970	257	65	29,520	15.4
Godfrey Cr.	6,837	2,030	0.33	12,915	6.5	43	98	10.8	59,041	322	80	35,900	20.4
Ainger Cr.	4,471	1,320	0.18	8,118	3.0	28	62	4.8	42,435	210	52	25,830	10.6
Cow Pen Sl.	26,850	7,106	1.07	42,435	19.6	173	415	14.8	258,303	1,154	301	147,601	78.2
Myakka	85,846	30,295	3.45	123,616	72.7	549	1,413	36.3	793,358	3,506	946	442,804	291.2
Deer Pr.	18,288	3,875	0.65	22,140	14.6	116	312	4.4	167,897	688	189	94,096	67.6
Big Sough	67,684	17,528	2.29	105,166	40.0	413	987	42.5	645,756	2,768	724	387,454	182.1
Little Salt	3,541	1,215	0.20	8,118	4.1	24	54	5.5	29,520	184	47	20,295	9.4
Braden River	4,045	2,030	0.37	7,749	3.8	25	54	4.1	49,815	183	43	20,295	13.2
City of Sara.	6,472	2,399	0.52	16,974	12.1	45	103	26.1	44,280	345	84	31,365	29.2
County N.	4,831	1,683	0.35	11,608	8.2	35	84	9.0	36,900	261	59	23,985	18.4
City of Ven.	5,036	2,214	0.42	16,974	9.5	32	60	31.0	33,210	283	60	27,675	21.1
County S.	3,697	1,260	0.26	8,856	6.1	28	67	5.3	29,520	201	54	18,450	13.2
Longboat	2,207	680	0.13	4,613	3.1	16	38	3.5	17,897	105	28	11,624	8.3
City Island	2,285	621	0.15	4,059	3.7	16	42	4.1	17,343	100	27	10,332	11.2
Siesta Key	3,308	1,296	0.26	9,410	6.3	26	69	7.7	23,985	193	51	18,081	11.8
Casey Key	1,063	294	0.06	2,030	1.6	8	20	1.1	8,487	49	14	5,166	4.6
Manasota Key	920	273	0.06	1,826	1.3	7	17	0.9	7,749	45	12	4,797	3.3
TOTAL	347,815	102,248	16.99	645,691	342.0	2,243	5,335	414.4	3,100,923	15,903	4,093	1,832,266	1,081.7

Table 10
Estimated Dry Season (Oct. - May)
EMCs Due to Stormwater and Baseflow with Updated Land Uses and BMPs Included

Table 10 - Estimated dry season (Oct. - May) EMCs due to stormwater and baseflow with updated land uses and BMPs included

Basin Name	BOD (mg/L)	Cu (mg/L)	COD (mg/L)	Cu (mg/L)	OP (mg/L)	NO3 (mg/L)	Pb (mg/L)	TDS (mg/L)	TKN (mg/L)	TP (mg/L)	TSS (mg/L)	Zn (mg/L)
Direct to Bay	3.6	0.001	17	0.03	0.13	0.44	0.01	150	0.60	0.20	77	0.13
Whitaker Bay	8.4	0.002	60	0.03	0.13	0.25	0.09	137	1.17	0.26	106	0.07
Hudson Bay	9.1	0.002	63	0.04	0.14	0.26	0.11	131	1.23	0.28	104	0.07
Philipp Cr	7.8	0.001	52	0.03	0.14	0.29	0.04	164	1.14	0.28	97	0.05
Matheney Cr	9.0	0.002	65	0.04	0.14	0.27	0.09	137	1.25	0.29	109	0.07
Clowers Cr	7.9	0.001	52	0.03	0.11	0.23	0.06	143	1.09	0.24	95	0.05
Catfish Cr	8.5	0.001	41	0.02	0.12	0.26	0.04	162	0.97	0.23	108	0.06
North Cr	7.0	0.001	47	0.03	0.13	0.29	0.04	158	1.06	0.26	100	0.06
South Cr	5.4	0.001	32	0.01	0.12	0.29	0.02	178	0.85	0.21	109	0.06
Shakett Cr	6.3	0.001	40	0.02	0.13	0.30	0.02	175	0.98	0.25	114	0.05
Curry Cr	6.6	0.001	44	0.02	0.12	0.28	0.03	162	0.98	0.24	111	0.05
Hatchett Cr	7.1	0.001	46	0.03	0.13	0.27	0.07	145	0.99	0.23	107	0.07
Alligator Cr	7.6	0.001	52	0.03	0.13	0.29	0.04	158	1.15	0.28	108	0.05
Woodmere	8.2	0.002	57	0.04	0.15	0.33	0.04	145	1.21	0.31	111	0.06
Forked Cr	6.1	0.001	39	0.02	0.13	0.30	0.02	170	0.94	0.24	110	0.06
Godfrey Cr	6.1	0.001	38	0.02	0.12	0.29	0.03	167	0.94	0.23	104	0.06
Anger Cr	6.0	0.001	37	0.01	0.12	0.28	0.02	183	0.93	0.23	115	0.05
Cow Pen St	5.5	0.001	33	0.01	0.13	0.31	0.01	187	0.85	0.22	110	0.06
Myakka	4.9	0.001	29	0.02	0.13	0.33	0.01	178	0.83	0.22	108	0.07
Deer Pt.	4.2	0.001	24	0.02	0.13	0.34	0.00	179	0.75	0.21	104	0.07
Big Sough	5.2	0.001	31	0.01	0.12	0.29	0.01	186	0.81	0.21	113	0.05
Little Salt	6.9	0.001	46	0.02	0.14	0.30	0.03	169	1.04	0.28	115	0.05
Braden River	9.6	0.002	38	0.02	0.12	0.27	0.02	243	0.90	0.21	97	0.07
City of Sara.	7.4	0.002	52	0.04	0.14	0.32	0.08	134	1.06	0.26	101	0.09
County N.	7.0	0.001	48	0.03	0.14	0.35	0.04	146	1.08	0.28	99	0.08
City of Ven	8.6	0.002	68	0.04	0.13	0.24	0.12	129	1.12	0.24	118	0.08
County S	6.8	0.001	49	0.03	0.15	0.36	0.03	162	1.08	0.29	104	0.07
Longboat	6.2	0.001	42	0.03	0.14	0.34	0.03	160	0.95	0.25	106	0.08
City Island	5.4	0.001	36	0.03	0.14	0.37	0.04	150	0.87	0.24	90	0.10
Siesta Key	7.8	0.002	57	0.04	0.16	0.36	0.05	144	1.16	0.31	110	0.07
Casey Key	5.5	0.001	37	0.03	0.14	0.38	0.02	159	0.92	0.26	97	0.09
Manasota Key	5.9	0.001	40	0.03	0.14	0.36	0.02	166	0.98	0.27	101	0.07
AVERAGE	6.7	0.001	44	0.03	0.13	0.31	0.04	161	1.00	0.25	105	0.07

Table 11
Estimated Wet Season (June - Sept)
EMCs Due to Stormwater and Baseflow with Updated Land Uses and BMPs Included

Basin Name	BOD (mg/L)	Cd (mg/L)	COD (mg/L)	Cu (mg/L)	OP (mg/L)	NO23 (mg/L)	Pb (mg/L)	TDS (mg/L)	TKN (mg/L)	TP (mg/L)	TSS (mg/L)	Zn (mg/L)
Direct to Bay	3.0	0.001	17	0.03	0.14	0.44	0.03	153	0.61	0.29	77	0.13
Whitaker Bay	8.8	0.002	62	0.03	0.13	0.25	0.09	139	1.17	0.26	103	0.07
Hudson Bay	9.1	0.002	63	0.04	0.14	0.26	0.11	134	1.23	0.28	104	0.07
Philippi Cr.	7.7	0.001	51	0.03	0.14	0.29	0.04	167	1.11	0.28	93	0.05
Maloney Cr.	9.0	0.002	64	0.04	0.14	0.27	0.09	136	1.24	0.29	107	0.07
Clowers Cr.	7.9	0.001	50	0.03	0.12	0.23	0.06	144	1.08	0.24	94	0.05
Catfish Cr.	6.5	0.001	40	0.02	0.12	0.26	0.04	174	0.97	0.23	110	0.06
North Cr.	7.0	0.001	47	0.03	0.13	0.29	0.04	166	1.06	0.26	99	0.06
South Cr.	5.3	0.001	32	0.01	0.12	0.29	0.02	183	0.85	0.21	106	0.06
Shakett Cr.	6.5	0.001	40	0.02	0.13	0.30	0.02	183	0.98	0.25	112	0.05
Curry Cr.	6.3	0.001	44	0.02	0.12	0.28	0.03	167	0.98	0.24	104	0.05
Hatchett Cr.	7.1	0.001	48	0.03	0.13	0.27	0.07	157	0.99	0.23	108	0.07
Alligator Cr.	7.3	0.001	51	0.03	0.13	0.29	0.04	158	1.14	0.28	101	0.05
Woodmere	8.2	0.002	59	0.04	0.15	0.33	0.04	147	1.21	0.31	109	0.06
Forked Cr.	6.0	0.001	39	0.02	0.13	0.30	0.02	175	0.94	0.24	108	0.06
Godfrey Cr.	5.9	0.001	38	0.02	0.12	0.29	0.03	172	0.94	0.23	108	0.06
Ainger Cr.	5.9	0.001	36	0.01	0.12	0.28	0.02	189	0.94	0.23	115	0.05
Cow Pen Sl.	5.3	0.001	31	0.01	0.13	0.31	0.01	192	0.86	0.22	110	0.06
Myakka	4.7	0.001	29	0.02	0.13	0.33	0.01	185	0.82	0.22	103	0.07
Deer Pr.	4.2	0.001	24	0.02	0.13	0.34	0.00	183	0.75	0.21	103	0.07
Big Sough	5.2	0.001	31	0.01	0.12	0.29	0.01	190	0.81	0.21	114	0.05
Little Salt	6.8	0.001	46	0.02	0.14	0.33	0.03	166	1.04	0.26	114	0.05
Braden River	10.0	0.002	35	0.02	0.12	0.27	0.02	245	0.90	0.21	100	0.06
City of Sara.	7.4	0.002	52	0.04	0.14	0.32	0.08	136	1.06	0.26	97	0.09
County N	6.9	0.001	49	0.03	0.14	0.35	0.04	152	1.08	0.28	99	0.08
City of Ven	8.8	0.002	67	0.04	0.13	0.24	0.12	131	1.12	0.24	110	0.08
County S	6.8	0.001	48	0.03	0.15	0.36	0.03	159	1.08	0.29	99	0.07
Longboat	6.1	0.001	42	0.03	0.14	0.34	0.03	162	0.95	0.25	105	0.07
City Island	5.4	0.001	35	0.03	0.14	0.37	0.04	151	0.87	0.24	90	0.10
Siesta Key	7.8	0.002	57	0.04	0.15	0.36	0.05	144	1.16	0.31	109	0.07
Casey Key	5.5	0.001	38	0.03	0.14	0.38	0.02	159	0.92	0.26	97	0.09
Manasota Key	5.9	0.001	40	0.03	0.14	0.36	0.02	168	0.98	0.27	104	0.07
AVERAGE	6.7	0.001	44	0.03	0.13	0.31	0.04	165	1.00	0.25	103	0.07

Literature Cited

CDM, 1993. NPDES Municipal Separate Storm Sewer System, Part 2 Permit Application. Submitted to USEPA by Sarasota County and Co-Applicants.

USEPA, 1992. Compendium of Watershed-Scale management Models for TMDL Development. EPA841-R-92-002.

USEPA, 1983. Results of the Nationwide Urban Runoff Program Volume I. Final Report.

Exhibit A

40 CFR 122.26(d)(2)(iii)(B)
SARASOTA COUNTY MS4
NPDES PERMIT APPLICATION PART 2

TABLE 10
EXISTING ANNUAL LOADING (lbs/yr)
FROM STORMWATER AND BASEFLOW

	BOD	COD	TSS	TDS	Total-P	Dissolved-P
	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)
DIRECT TO BAY	21,600	123,000	555,900	1,078,600	1,400	970
WHITAKER BAY	305,000	2,119,100	3,626,700	4,694,100	9,100	4,500
HUDSON BAY	67,400	473,900	770,600	945,100	2,100	1,000
PHILLIPPI CR.	1,552,100	10,381,900	20,773,900	30,576,100	55,200	25,000
MATHENEY CR.	100,100	699,000	1,198,300	1,523,800	3,200	1,500
CLOWERS CR.	48,900	318,500	583,500	860,800	1,500	690
CATFISH CR.	129,200	810,400	2,132,900	3,237,800	4,500	2,300
NORTH CR.	56,800	345,100	1,078,900	1,716,800	2,200	1,100
SOUTH CR.	279,300	1,670,400	5,822,200	9,335,500	11,300	6,200
SHAKETT CR.	191,800	1,241,000	3,386,200	5,284,000	7,600	3,900
CURRY CR.	163,800	1,041,900	2,442,000	3,804,000	5,700	2,900
HATCHETT CR.	123,500	803,700	1,828,100	2,728,000	4,200	2,200
ALLIGATOR CR.	243,600	1,655,200	3,362,700	4,874,100	9,000	4,200
WOODMERE	81,500	561,100	1,322,900	1,935,600	3,200	1,600
FORKED CR.	173,900	1,165,100	3,051,100	4,504,200	6,700	3,500
GODFREY CR.	163,900	1,063,800	2,899,700	4,305,500	6,400	3,300
AINGER CR.	202,100	1,207,700	4,450,500	7,036,200	8,400	4,700
COW PEN SL.	707,900	4,144,600	14,584,200	25,769,100	28,600	16,100
MYAKKA	2,061,600	12,165,700	44,223,200	75,325,600	90,100	52,000
DLER PR.	352,300	2,136,500	9,347,500	15,600,000	18,000	11,000
BIG SLOUGH	1,707,500	10,335,600	37,934,800	59,547,800	68,700	38,900
LITTLE SALT	119,600	808,900	2,006,300	2,821,600	4,500	2,300
BRADEN RIVER	191,100	757,500	1,939,500	4,723,800	4,100	2,400
CITY OF SARA.	238,100	1,679,700	3,187,700	4,275,600	8,200	4,300
COUNTY NORTH	166,000	1,163,900	2,368,800	3,420,000	6,700	3,400
CITY OF VEN.	214,200	1,681,300	2,830,700	3,205,500	5,900	3,100
COUNTY SOUTH	124,100	875,300	1,910,500	2,761,100	5,300	2,600
LONGBOAT	66,800	452,100	1,142,600	1,687,700	2,700	1,500
CITY ISL.	61,100	406,400	1,021,400	1,635,800	2,600	1,500
SIESTA KEY	128,000	930,000	1,788,200	2,296,900	5,000	2,500
CASEY KEY	28,900	194,300	508,100	801,500	1,300	720
MANASOTA KEY	26,800	180,900	465,800	733,400	1,200	630
TOTAL	10,128,500	63,644,500	184,546,500	288,945,600	394,600	213,510

40 CFR 122.26(d)(2)(iii)(B)
SARASOTA COUNTY MS4
NPDES PERMIT APPLICATION PART 2

TABLE 10 (Cont.)
EXISTING ANNUAL LOADING (lbs/yr)
FROM STORMWATER AND BASEFLOW

	TKN (lbs/yr)	NO2&NO3 (lbs/yr)	TN	Lead (lbs/yr)	Copper (lbs/yr)	Zinc (lbs/yr)	Cadmium (lbs/yr)
DIRECT TO BAY	4,300	3,200	7,500	50	250	970	10
WHITAKER BAY	40,900	3,700	49,500	3,200	1,100	2,500	50
HUDSON BAY	9,200	2,000	11,200	700	260	500	10
PHILLIPPI CR	222,800	56,600	279,400	7,500	5,200	10,300	280
MATHENEY CR	13,800	3,100	16,900	910	330	730	20
CLOWERS CR	6,600	1,400	8,000	330	130	340	10
CATFISH CR	19,000	5,100	24,100	860	350	1,100	20
NORTH CR	3,500	2,500	11,400	120	100	380	0
SOUTH CR	44,300	14,900	59,200	520	650	2,700	40
SHAKETT CR	29,700	9,500	38,700	610	370	1,600	30
CURRY CR	23,000	6,500	29,500	600	310	1,200	30
HATCHETT CR	17,700	4,800	22,500	920	420	1,200	20
ALLIGATOR CR	35,500	9,200	45,700	1,200	530	1,700	50
WOODMERE	12,300	3,500	15,900	320	230	590	10
FORKED CR	26,400	8,100	34,500	690	570	1,500	30
GODFREY CR	25,200	7,600	32,500	690	510	1,400	30
SINGER CR	32,700	11,300	44,000	230	460	1,900	20
COW PEN SL	135,400	39,900	150,500	1,400	2,000	7,700	100
MYAKKA	336,800	136,400	473,200	3,400	7,500	28,800	330
DEER PR	65,500	30,100	95,700	400	1,600	6,700	70
BIG SLOUGH	271,900	94,700	366,600	4,000	4,100	17,800	220
LITTLE SALT	17,800	5,200	25,000	530	390	920	20
BRADEN RIVER	17,600	5,200	22,800	410	370	1,300	40
CITY OF SARA	33,700	10,000	43,700	2,500	1,200	2,900	50
COUNTY NORTH	25,400	8,200	33,600	1,200	500	1,900	30
CITY OF VEN	27,800	5,900	33,700	3,000	500	2,100	40
COUNTY SOUTH	19,500	6,500	26,000	520	530	1,300	20
LONGBOAT	10,200	3,700	13,900	340	300	820	10
CITY ISL	9,700	4,100	13,800	390	370	1,100	10
SIESTA KEY	18,900	5,300	24,700	740	600	1,200	20
CASEY KEY	4,800	2,000	6,800	120	160	450	10
MANASOTA KEY	4,400	1,600	6,000	50	120	330	0
TOTAL	1,548,300	516,900	2,065,200	38,310	33,610	105,930	1,630



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construction
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Tel. 941 363-3596 Fax. 941 363-0089

July 7, 1999

Mr. John Ryan
Environmental Specialist III
Sarasota County Pollution Control
1301 Cattlemen Road, Building B
Sarasota, Florida 34232

Re: Seasonal Pollutant Loads

Dear John:

Enclosed, please find four copies of the draft NPDES Seasonal Loadings and EMC Estimates. This evaluation was prepared according to the scope of services provided to Mr. Kirk Bagley on May 3, 1999 and authorized by Sarasota County purchase order number P906660, received June 8, 1999. With County concurrence, we will provide 10 copies of the final report as specified in the scope.

We are in the process of preparing an installation CD which contains a copy of WMM 4.14 along with the data files used in the present evaluation. I will forward two copies early next week.

Please call if you have any questions regarding this evaluation.

Sincerely,

CAMP DRESSER & MCKEE INC.

Michael G. Heyl
Principal Scientist

Enclosures

Cc: Kirk Bagley, SC
Tom Walker, CDM

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**MS4-NPDES Permit FL00004
Sarasota County & Co-Applicants
Seasonal Loadings
and
EMC Estimates**

July 1999



MS4-NPDES Permit FL00004 Sarasota County & Co-Applicants Seasonal Loadings and EMC Estimates

Introduction

In accordance with 40 CFR 122.26(d)(2)(iii)(C) Sarasota County's Municipal Separate Storm Sewer (MS4) NPDES permit (FLS000004) requires the County to complete an estimate of seasonal pollutant load estimates and the event mean concentrations (EMC) for a representative storm. Specific requirements of the permit include the following from the Code of Federal Register.

(C) A proposed schedule to provide estimates for each major outfall identified in either paragraph (d)(2) (ii) or (d)(1)(iii)(B)(1) of this section of the seasonal pollutant load and of the event mean concentration of a representative storm for any constituent detected in any sample required under paragraph (d)(2)(iii)(A) of this section:

The permit was subsequently modified (Public Notice 95F10081) to report pollutant load and concentrations for each *major watershed* rather than each *major outfall*. This report describes the methodology used to estimate seasonal loads and EMCs and provides the requisite output in accordance with the County's permit.

Background

Estimates of annual pollutant loading were submitted to USEPA in 1993 with Part 2 of the NPDES application (CDM, 1993). These estimates were made based on 1990 land use information using a spreadsheet model developed by Camp Dresser & McKee Inc. (CDM) called Watershed Management Model (WMM). The model is based the observation that stormwater runoff characteristics vary with land use. In practice, the stormwater loading is calculated as the sum of loadings from various land-uses within a watershed. The land use specific loadings are the product of a land-use specific pollutant concentration and runoff. Details of the calculations can be found in the permit application. The model has been reviewed by EPA (USEPA, 1992) and placed in public domain with the Florida Department of Environmental Protection.

For the present evaluation, the current Windows based version (4.14) of the WMM was used. The Windows version was developed for USEPA's Rouge River Wet Weather Demonstration project and retains all of the functionality of the original DOS-based spreadsheet version. Unlike the previous version, the present WMM is available as an executable model requiring no additional software.

The present evaluation consisted of verifying the 1993 loading estimates using the new version of WMM, followed by estimating the seasonal loads and seasonal event loadings using updated land use and BMP coverage. EMCs were derived from the event loadings by dividing the loadings by the typical event runoff.

Validation of 1993 Estimates

The input data contained in the 1993 permit application was entered in WMM version 4.14 to establish a base model. Land use, EMCs, and hydrology (rainfall, baseflow and runoff coefficients) were taken from the Part 2 application (ibid.). The results are shown in Table 1 and match the 1993 NPDES permit application within rounding error. See Exhibit A for Table 10 of the 1993 NPDES permit application.

Updated Land Use

Over the past decade, the County has been conducting stormwater master plans for the basins. To date, 16 basins have been studied. As part of the master planning process, a water quality assessment using WMM has been conducted for each of the basins. The County provided master plans that were completed after the 1993 NPDES permit application. Those plans, which had updated land use information summarized¹ in tabular format, were used to update the land use for the present evaluation.

Land use changes were directly input in cases where the master plans used the same land use classifications as the 1993 NPDES permit application. Master plans for North Creek, Curry Creek, Hatchett Creek, and Matheny Creek were used as reported.

In other cases, the land use classifications in the master plans were different than those previously used. In several cases, low-density land use was grouped with medium density land use. In another example of consolidation, several of the master plans evaluated industrial and commercial land uses as a single classification. Single classifications were matched to the closest land use classification from the 1993 NPDES permit application. For cases where land uses were consolidated, it was assumed that the ratio of the two land uses within the master plan's grouping remained the same as existed in the previous loading estimate. Table 2 lists all of the land use changes and conversions incorporated into the present evaluation.

Updated BMP Coverage

The County is presently constructing a 392 acre regional extended dry detention facility known as the Celery Fields Regional Stormwater Facility (CFRSF). This facility serves as flood attenuation and water quality treatment for 3,598 acres in upper Phillippi Creek basin. The upstream land uses served by the CFRSF were taken directly from the facility's design report by Boyle Engineering and included with the existing BMPs in the County.

Impact of Land Use Changes

After incorporating the land use changes and the CFRSF in the model, the model was run with all other conditions that were used in the 1993 evaluation. The resultant pollutant loads are shown in Table 3. The total pollutant loads increased slightly despite the additional BMP coverage. This can be attributed to the 6,096 acre increase in watershed area reflected in the master plans and the increased urbanization. In the absence of the new BMP coverage, the loadings would be even greater.

¹ Some of the plans lacked summary tables and/or were too detailed to be useful for the present evaluation. For example, the Gottfried Master Plan listed 31 sub-basins averaging 0.4 mi² each.

Table 1
Total Pollutant Load Estimates from Stormwater and Baseflow
Using WMM v 4.14 and Input from the 1993 NPDES Permit Application

Basin Name	BOD (lbs/yr)	Cd (lbs/yr)	COD (lbs/yr)	Cu (lbs/yr)	DP (lbs/yr)	NO23 (lbs/yr)	Pb (lbs/yr)	TDS (lbs/yr)	TKN (lbs/yr)	TP (lbs/yr)	TSS (lbs/yr)	Zn (lbs/yr)
Direct to Bay	21,680	7	120,000	237	973	3,225	64	1,100,000	4,341	1,411	560,000	944
Whitaker Bay	300,000	58	2,100,000	1,208	4,512	8,714	3,313	4,700,000	40,921	9,112	3,600,000	2,451
Hudson Bay	67,299	13	470,000	284	1,013	1,969	713	950,000	9,229	2,130	770,000	503
Phillips Cr.	1,650,000	276	10,000,000	5,527	26,194	56,583	7,029	31,000,000	220,000	55,190	21,000,000	10,253
Matheney Cr.	99,987	19	700,000	407	1,548	3,079	935	1,500,000	13,819	3,231	1,200,000	731
Clowers Cr.	48,820	8	320,000	180	699	1,401	343	860,000	6,635	1,478	580,000	337
Calfish Cr.	130,000	20	810,000	371	2,347	5,109	884	3,200,000	18,980	4,458	2,100,000	1,102
North Cr.	56,804	7	350,000	109	1,111	2,493	116	1,700,000	8,886	2,176	1,100,000	376
South Cr.	280,000	36	1,700,000	659	6,169	14,945	534	9,300,000	44,778	11,346	5,800,000	2,656
Shakett Cr.	190,000	30	1,200,000	580	3,895	8,990	628	5,300,000	29,692	7,544	3,400,000	1,573
Curry Cr.	160,000	28	1,000,000	523	2,912	6,526	610	3,800,000	22,999	5,744	2,400,000	1,193
Hatchett Cr.	120,000	21	800,000	438	2,182	4,787	948	2,700,000	17,684	4,171	1,800,000	1,146
Alligator Cr.	240,000	42	1,700,000	879	4,208	9,217	1,234	4,900,000	36,527	9,046	3,400,000	1,668
Woodmore	81,551	14	560,000	293	1,585	3,577	324	1,800,000	12,346	3,187	1,300,000	584
Forked Cr.	170,000	28	1,200,000	578	3,502	8,070	707	4,500,000	26,415	6,726	3,100,000	1,458
Godfrey Cr.	160,000	26	1,100,000	521	3,309	7,641	699	4,300,000	25,222	6,374	2,900,000	1,388
Ainger Cr.	200,000	25	1,200,000	454	4,661	11,292	284	7,000,000	32,715	8,417	4,500,000	1,898
Cow Pen Sl.	710,000	103	4,200,000	1,943	16,115	39,904	1,451	24,000,000	110,000	28,603	15,000,000	7,556
Myakka	2,100,000	329	12,000,000	7,191	51,977	140,000	3,557	73,000,000	340,000	90,139	44,000,000	28,255
Deer Pt.	380,000	61	2,200,000	1,443	10,935	30,097	430	16,000,000	65,605	17,997	9,400,000	6,569
Big Sough	1,700,000	216	10,000,000	3,955	38,877	94,709	4,182	60,000,000	270,000	68,660	38,000,000	17,531
Little Salt	120,000	19	810,000	406	2,317	5,208	543	2,800,000	17,822	4,517	2,000,000	915
Braden River	190,000	37	760,000	378	2,363	5,221	408	4,700,000	17,570	4,057	1,900,000	1,281
City of Sara	240,000	50	1,700,000	1,203	4,363	10,032	2,586	4,300,000	33,714	8,158	3,200,000	2,867
County N	170,000	34	1,200,000	816	3,378	8,191	948	3,400,000	25,423	6,686	2,400,000	1,806
City of Ven.	210,000	42	1,700,000	942	3,124	5,870	3,070	3,200,000	27,782	5,861	2,800,000	2,079
County S.	120,000	25	870,000	599	2,660	6,528	526	2,800,000	19,552	5,275	1,900,000	1,284
Longboat	66,873	13	450,000	308	1,496	3,699	349	1,700,000	10,216	2,712	1,100,000	810
City Island	61,153	14	410,000	366	1,513	4,122	401	1,600,000	9,710	2,630	1,000,000	1,096
Siesta Key	135,000	26	930,000	626	2,486	5,769	760	2,300,000	18,855	4,976	1,800,000	1,155
Casey Key	28,932	6	190,000	161	732	1,972	104	800,000	4,779	1,337	510,000	446
Manasota Key	26,787	5	180,000	125	638	1,612	87	730,000	4,389	1,202	470,000	323
TOTAL (1999)	10,179,886	1,638	62,930,000	33,690	213,795	520,552	39,367	289,940,000	1,546,588	394,549	184,990,000	104,234
TOTAL (1993)	10,128,500	1,630	63,644,500	33,610	213,510	516,900	38,310	288,945,600	1,548,300	394,600	184,546,500	105,930

Table 2
Basins within Sarasota County with Reported Land Use Changes
Since the 1993 NPDES Permit Application

Basin:	Curry Creek (acres)		Hatchett Cr. (acres)		Matheny Cr. (acres)		North Cr. (acres)		Cow Pen Sl. (acres)		Ainger Cr. (acres)	
Land Use	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹
Forest/Open	1,221	1,907	1,424	1,485	245	163	1,649	644	9,697	7,730	6,255	3,861
Pasture/Range Land	1,340	1,575	115	70	-	-	100	151	12,299	3,924	1,147	-
Agriculture/Cropland	-	-	-	-	-	-	-	-	-	17,018	-	-
LDSF Residential	554	696	241	118	84	70	174	704	2,239	2,230	604	697
MDSF Residential/Instit.	610	227	408	14	913	966	179	230	143	245	65	-
HDSF/MF Residential	361	768	387	743	164	206	29	125	122	121	7	-
Commercial/CBD	7	59	192	233	200	143	-	20	-	-	-	-
Light Industrial	43	46	85	95	95	129	27	97	154	-	27	188
Water	557	867	539	544	31	8	200	337	6,914	9,075	1,654	562
Major Highway	63	260	14	73	-	38	-	24	54	115	-	-
Extractive	79	-	-	-	-	-	-	-	197	13	-	-
TOTAL	4,665	6,405	3,405	3,375	1,732	1,723	2,358	2,332	31,819	40,471	9,759	5,308

Basin	Godfrey Cr. (acres)		Forked Cr. (acres)		South Cr. (acres)		Hudson Bay (acres)		Woodmere Cr. (acres)		TOTAL (acres)		
Land Use	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	1990	Present ¹	Change
Forest/Open	3,266	4,347	2,483	3,490	5,815	9,008	37	104	1,071	167	33,163	32,906	-257
Pasture/Range Land	160	-	891	-	3,464	-	-	-	101	-	19,417	5,720	-13,697
Agriculture/Cropland	-	-	-	-	-	-	-	-	-	-	-	17,018	17,018
LDSF Residential	338	286	813	487	223	122	-	-	119	105	5,389	5,515	126
MDSF Residential/Instit.	926	762	556	333	905	495	741	608	619	546	6,065	4,446	-1,619
HDSF/MF Residential	30	228	147	336	42	104	53	70	174	187	1,516	2,686	1,372
Commercial/CBD	131	275	42	175	30	210	197	227	13	30	812	1,372	560
Light Industrial	20	42	-	-	31	217	9	10	12	10	503	834	331
Water	832	1,295	873	1,035	2,262	2,550	1	2	266	148	14,139	16,423	2,284
Major Highway	-	-	83	-	18	-	-	-	-	-	252	510	258
Extractive	-	-	17	-	-	-	-	-	-	-	293	13	-280
TOTAL	5,703	7,255	5,905	5,856	12,790	12,706	1,038	1,021	2,375	1,193	61,549	67,645	6,096

¹Present is defined as the land uses according to the most recent basin master plan

Table 3
WMM 4.14 Loading Estimates (Stormwater and Baseflow)
Using 1993 NPDES Part II Permit Application Data with Updated Land Use and the CFRSF

Basin Name	BOD (lbs/yr)	Cd (lbs/yr)	COD (lbs/yr)	Cu (lbs/yr)	DP (lbs/yr)	NO23 (lbs/yr)	Pb (lbs/yr)	TDS (lbs/yr)	TKN (lbs/yr)	TP (lbs/yr)	TSS (lbs/yr)	Zn (lbs/yr)
Direct to Bay	21,680	7	125,000	237	973	3,225	64	1,100,000	4,341	1,411	560,000	944
Whitaker Bay	300,000	58	2,153,000	1,208	4,512	8,714	3,313	4,700,000	40,921	9,112	3,600,000	2,451
Hudson Bay	67,299	13	470,000	284	1,013	1,969	713	950,000	9,229	2,130	770,000	503
Philippi Cr.	1,500,000	263	10,000,000	5,282	26,194	56,583	6,969	31,000,000	220,000	54,204	19,000,000	9,893
Matheny Cr.	100,000	20	750,000	435	1,600	3,154	991	1,500,000	14,362	3,354	1,300,000	752
Clowers Cr.	48,820	8	320,000	160	699	1,401	343	860,000	6,535	1,478	580,000	337
Catfish Cr.	130,000	20	810,000	371	2,347	5,109	884	3,200,000	18,980	4,458	2,100,000	1,102
North Cr.	83,943	15	570,000	313	1,528	3,412	478	1,900,000	12,573	3,091	1,200,000	716
South Cr.	280,000	36	1,700,000	659	6,169	14,946	534	9,300,000	44,778	11,346	5,800,000	2,656
Shakett Cr.	190,000	30	1,200,000	580	3,895	8,990	628	5,300,000	29,692	7,544	3,400,000	1,573
Curry Cr.	210,000	33	1,400,000	662	3,808	8,593	928	5,000,000	30,252	7,363	3,400,000	1,701
Hatchell Cr.	130,000	23	890,000	493	2,293	4,905	1,231	2,700,000	18,045	4,166	2,000,000	1,281
Alligator Cr.	240,000	42	1,700,000	879	4,208	9,217	1,234	4,900,000	36,527	9,046	3,400,000	1,668
Woodmere	81,551	14	560,000	293	1,586	3,577	324	1,800,000	12,346	3,187	1,300,000	584
Forked Cr.	170,000	28	1,200,000	578	3,502	8,070	707	4,500,000	26,415	6,726	3,100,000	1,458
Godfrey Cr.	160,000	26	1,100,000	521	3,309	7,641	699	4,300,000	25,222	6,374	2,900,000	1,388
Ainger Cr.	200,000	25	1,200,000	454	4,661	11,292	284	7,000,000	32,715	8,417	4,500,000	1,898
Cow Pen Sl.	830,000	115	5,000,000	2,294	32,833	69,903	1,407	30,000,000	210,000	69,795	19,000,000	9,400
Myakka	2,100,000	329	12,000,000	7,191	51,977	140,000	3,557	73,000,000	340,000	90,139	44,000,000	28,266
Deer Pr.	380,000	61	2,200,000	1,443	10,935	30,097	430	16,000,000	65,605	17,997	9,400,000	6,569
Big Sough	1,700,000	216	10,000,000	3,955	38,877	94,709	4,182	60,000,000	270,000	68,660	38,000,000	17,531
Little Salt	120,000	19	810,000	406	2,317	5,208	543	2,800,000	17,822	4,517	2,000,000	915
Braden River	190,000	37	760,000	378	2,363	5,221	408	4,700,000	17,570	4,057	1,900,000	1,281
City of Sara.	240,000	50	1,700,000	1,203	4,363	10,032	2,586	4,300,000	33,714	8,156	3,200,000	2,867
County N	170,000	34	1,200,000	816	3,378	8,191	948	3,400,000	25,423	6,686	2,400,000	1,806
City of Ven	210,000	42	1,700,000	942	3,124	5,670	3,070	3,200,000	27,782	5,861	2,800,000	2,079
County S.	120,000	25	870,000	599	2,660	6,528	526	2,800,000	19,552	5,275	1,900,000	1,284
Longboat	66,873	13	450,000	308	1,496	3,699	349	1,700,000	10,216	2,712	1,100,000	810
City Island	51,153	14	410,000	366	1,513	4,122	401	1,600,000	9,710	2,630	1,000,000	1,096
Siesta Key	130,000	26	930,000	626	2,486	5,769	760	2,300,000	18,855	4,976	1,800,000	1,155
Casey Key	28,932	6	190,000	161	732	1,972	104	800,000	4,779	1,337	510,000	446
Manasota Key	26,787	5	180,000	125	638	1,612	87	730,000	4,389	1,202	470,000	323
TOTAL (1999)	10,287,038	1,653	64,490,000	34,222	231,989	553,730	39,682	297,340,000	1,658,450	437,407	188,390,000	106,722
TOTAL (1993)	10,128,500	1,630	63,644,500	33,610	213,510	516,800	38,310	288,945,600	1,548,300	394,600	184,546,500	105,930

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Seasonal Loads

In order to evaluate seasonal loads, four gages with long-term (ca. >30 years) rainfall records were identified. Daily rainfall data from 01/01/68 to 12/31/97 was obtained from SWFWMD for the following stations: Bradenton ESE, Myakka River State Park, Sarasota-Bradenton International Airport (no 1968 data), and Venice NWS. The number of days with usable data within the evaluation period was totaled for each month and each station. Each station's total was then divided by the number of days in the time frame to obtain the percentage of record completeness. Inspection of the records indicated fair to good completeness as shown in Table 4. The total number of rain events for each station is listed in Table 4, as well as the calculated average number of events per month.

The data was then tabulated into annual totals and monthly averages for each station. Initially, it was planned to area weight the results (e.g. Theisson polygons), but the results among the stations were within 10 percent of the average and weighting was considered unnecessary. Also, despite the fair data completeness, the Venice station data was retained due to the similarity with the other stations in all subsequent calculations. Given the close similarities, the station averages were combined to yield average rainfall totals for each month. Based on the results, the "wet" season was defined as June through September (31.7 inches), while the "dry" season consists of the remaining 8 months which produce 21.6 inches of rainfall on average. Table 5 displays the annual, seasonal and monthly average rainfall for the four stations and the 30-year period of record.

The total annual baseflow was assumed to remain the same (5.8 inches per year) as reported in 1993. This total was proportioned between the dry and wet seasons by multiplying the total yearly baseflow by the ratio of average seasonal rainfall to average yearly rainfall. This resulted in a wet season baseflow of 3.5 inches and a dry season baseflow of 2.3 inches.

Using the seasonal rainfall as previously described, baseflow, updated land use and updated BMP coverage, the seasonal loads were estimated. The estimated dry season pollutant loads are given in Table 6, while Table 7 illustrates the corresponding wet season loads. As only the rainfall and baseflow varies, the loadings are proportional to the seasonal rainfall totals with approximately 60 percent of the annual loading being produced during the four month wet season.

Seasonal Event Loads and EMCs

In order to estimate "representative" storm loadings and EMCs, the number of storm events must be determined. The total number of days with rain was taken as a surrogate for a rain "event". Results for each station and month were previously developed in Table 4. The average number of events per month was determined for each station by dividing the total number of events per month, by the total number of days with data per month, and multiplying by the number of days in that month as shown below.

Calculation of the average number of events at the Bradenton station for January.

$$\text{Avg \# Jan events} = \frac{197 \text{ events in Jan}}{930 \text{ days w/ data in Jan}} * 31 \text{ days in Jan} = 6.6 \text{ events/January}$$

Table 4
Total Number of Days with Usable Rainfall Data, Rain Events,
and Average Number of Rain Events Per Month

Month	Station												Average Avg. # of Events
	Bradenton			Myakka			SaraBrad			Venice			
	Data	Events	Avg. # of Events	Data	Events	Avg. # of Events	Data	Events	Avg. # of Events	Data	Events	Avg. # of Events	
Jan	930	197	6.6	930	161	5.4	899	178	6.1	720	163	7.0	6.3
Feb	822	169	5.8	847	153	5.1	819	167	5.8	684	144	5.9	5.7
Mar	930	182	6.1	929	164	5.5	899	182	6.3	690	144	6.5	6.1
Apr	900	139	4.6	870	114	3.9	870	117	4.0	668	101	4.5	4.3
May	930	185	6.2	899	165	5.7	899	157	5.4	689	152	6.8	6.0
Jun	900	367	12.2	885	385	13.1	870	298	10.3	637	244	11.5	11.8
Jul	930	450	15.0	930	472	15.7	899	377	13.0	660	294	13.8	14.4
Aug	930	480	16.0	928	471	15.7	899	423	14.6	689	334	15.0	15.3
Sep	900	385	12.8	900	363	12.1	870	356	12.3	667	306	13.8	12.8
Oct	930	204	6.8	929	194	6.5	837	170	6.3	720	189	8.1	6.9
Nov	900	170	5.7	900	136	4.5	870	146	5.0	668	134	6.0	5.3
Dec	930	174	5.8	929	129	4.3	806	155	6.0	720	128	5.5	5.4
Total Days of Usable Data	10,932	3,102	104	10,876	2,907	97	10,437	2,728	95	8,212	2,333	104.6	100.2
Days of Operation	10,959	-	-	10,959	-	-	10,593	-	-	10,959	-	-	-
% Complete	99.75%	-	-	99.24%	-	-	95.24%	-	-	74.93%	-	-	-
Dry Season	-	-	47.5	-	-	40.9	-	-	44.9	-	-	50.5	45.9
Wet Season	-	-	56.1	-	-	56.6	-	-	50.2	-	-	54.1	54.2

Table 5
Average Rainfall in Inches Per Month From 01/01/68 to 12/31/97
Wet Season Defined as June Through September
Dry Season Defined as October Through May

Month	Station				Average
	Bradenton	Myakka	SaraBrad	Venice	
Jan	2.7	2.9	2.6	2.5	2.7
Feb	2.6	2.6	2.6	2.3	2.5
Mar	3.6	3.5	3.6	3.5	3.6
Apr	1.8	2.1	2.2	1.9	2.0
May	3.2	3.5	2.4	2.5	2.9
Jun	8.0	9.3	6.1	6.6	7.5
Jul	8.8	9.6	6.8	6.8	8.0
Aug	9.3	9.3	7.9	8.4	8.7
Sep	7.1	7.9	7.6	7.2	7.5
Oct	3.2	3.2	2.8	3.5	3.2
Nov	2.3	2.2	2.2	2.1	2.2
Dec	2.5	2.4	2.9	2.3	2.5
TOTAL	55.1	58.6	49.7	49.6	53.2
Wet - Avg	33.2	36.1	28.3	29.0	31.7
Dry - Avg	21.8	22.5	21.3	20.7	21.6

Table 6
Estimated Total Dry Season (Oct - May)
Pollutant Loads from Stormwater and Baseflow with Updated Land Use and BMPs Included

Basin Name	BOD (lbs/season)	Cd (lbs/season)	COD (lbs/season)	Cu (lbs/season)	DP (lbs/season)	NO23 (lbs/season)	Pb (lbs/season)	TDS (lbs/season)	TKN (lbs/season)	TP (lbs/season)	TSS (lbs/season)	Zn (lbs/season)
Direct to Bay	8,143	3	45,910	88	369	1,212	24	410,000	1,649	535	210,000	353
Whitaker Bay	110,000	22	790,000	450	1,703	3,280	1,235	1,800,000	15,358	3,428	1,400,000	919
Hudson Bay	24,441	5	170,000	100	363	686	285	350,000	3,303	741	280,000	193
Phillippi Cr.	570,000	99	3,800,000	1,970	9,946	21,364	2,600	12,000,000	82,901	20,477	7,100,000	3,733
Matheney Cr.	39,006	8	280,000	162	603	1,186	369	590,000	5,387	1,261	470,000	282
Clowers Cr.	18,240	3	120,000	60	265	529	178	330,000	2,495	557	220,000	127
Catfish Cr.	48,346	8	300,000	138	897	1,938	330	1,200,000	7,188	1,696	800,000	417
North Cr.	31,406	6	210,000	117	581	1,289	179	710,000	4,745	1,170	450,000	270
South Cr.	110,000	18	650,000	290	2,437	5,802	478	3,600,000	17,298	4,295	2,200,000	1,196
Shakell Cr.	71,815	11	460,000	216	1,491	3,410	235	2,000,000	11,263	2,870	1,300,000	596
Curry Cr.	77,440	12	520,000	247	1,463	3,253	346	1,900,000	11,443	2,794	1,300,000	642
Hatchett Cr.	49,306	9	330,000	184	870	1,852	459	1,000,000	6,806	1,577	740,000	481
Alligator Cr.	91,089	16	620,000	328	1,598	3,480	460	1,900,000	13,764	3,417	1,300,000	629
Woodmere	21,508	4	150,000	95	395	874	114	380,000	3,179	822	290,000	158
Forked Cr.	60,722	10	390,000	191	1,271	2,976	213	1,700,000	9,392	2,380	1,100,000	563
Godfrey Cr.	76,751	12	480,000	240	1,556	3,597	401	2,100,000	11,772	2,905	1,300,000	747
Anger Cr.	48,936	7	300,000	112	1,015	2,264	177	1,500,000	7,658	1,892	940,000	387
Cow Pen Sl	270,000	39	1,600,000	725	6,189	15,347	544	9,200,000	42,064	10,935	5,400,000	2,862
Myakka	770,000	126	4,600,000	2,583	19,924	51,662	1,334	28,000,000	130,000	34,424	17,000,000	10,669
Deer Pr	140,000	23	820,000	538	4,195	11,397	162	6,000,000	25,050	6,887	3,500,000	2,478
Big Sough	640,000	83	3,900,000	1,476	14,965	36,012	1,566	23,000,000	100,000	26,303	14,000,000	6,653
Little Sah	44,750	7	300,000	151	883	1,970	203	1,100,000	6,740	1,713	750,000	346
Braden River	71,495	14	280,000	141	905	1,982	163	1,800,000	6,668	1,548	720,000	483
City of Sara.	88,825	19	620,000	448	1,646	3,768	964	1,600,000	12,663	3,069	1,200,000	1,074
County N	62,058	13	430,000	304	1,278	3,081	353	1,300,000	9,570	2,520	880,000	678
City of Ven.	79,884	16	630,000	351	1,177	2,207	1,145	1,200,000	10,420	2,204	1,100,000	778
County S	46,422	9	330,000	223	1,009	2,458	196	1,100,000	7,372	1,992	710,000	483
Longboat	25,035	5	170,000	115	568	1,395	130	650,000	3,862	1,027	430,000	305
City Island	22,888	5	150,000	137	573	1,550	150	630,000	3,665	994	380,000	411
Siesta Key	47,783	10	350,000	233	939	2,168	283	880,000	7,088	1,873	670,000	433
Casey Key	10,834	2	72,507	60	278	743	39	310,000	1,806	508	190,000	167
Manasota Key	10,035	2	67,382	47	243	608	33	280,000	1,661	456	170,000	122
TOTAL	3,787,156	624	23,935,799	12,620	81,585	195,140	16,288	110,520,000	584,230	149,268	68,500,000	39,636

Table 7
Estimated Total Wet Season (June - Sept)
Pollutant Loads from Stormwater and Baseflow with Updated Land Use and BMPs Included

	BOD	Cd	COD	Cu	DP	NO23	Pb	TDS	TKN	TP	TSS	Zn
Basin Name	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)	(lbs/season)
Direct to Bay	12,007	4	67,490	130	547	1,787	35	620,000	2,448	794	310,000	520
Whitaker Bay	170,000	32	1,200,000	661	2,518	4,841	1,813	2,700,000	22,633	5,059	2,000,000	1,353
Hudson Bay	35,903	7	250,000	147	535	1,012	418	530,000	4,865	1,093	410,000	284
Phillippi Cr.	830,000	145	5,500,000	2,891	14,761	31,600	3,819	18,000,000	120,000	30,299	10,000,000	5,520
Malheney Cr	57,307	11	410,000	238	891	1,749	542	870,000	7,937	1,859	680,000	415
Clowers Cr	26,809	5	170,000	87	393	782	188	490,000	3,681	824	320,000	187
Catfish Cr	71,156	11	440,000	203	1,337	2,875	485	1,900,000	10,651	2,519	1,200,000	616
North Cr	46,197	8	310,000	172	864	1,908	262	1,100,000	7,017	1,732	660,000	398
South Cr	160,000	23	950,000	425	3,642	8,612	702	5,500,000	25,709	6,401	3,200,000	1,772
Shakett Cr.	110,000	17	680,000	318	2,223	5,057	345	3,100,000	16,706	4,266	1,900,000	884
Curry Cr.	110,000	18	770,000	363	2,162	4,819	509	2,900,000	16,943	4,146	1,800,000	950
Hatchett Cr	72,505	13	490,000	270	1,292	2,740	674	1,600,000	10,060	2,336	1,100,000	710
Alligator Cr	130,000	24	910,000	481	2,372	5,148	676	2,800,000	20,335	5,055	1,800,000	930
Woodmere	31,613	6	230,000	139	584	1,290	168	570,000	4,690	1,214	420,000	234
Forked Cr	89,403	14	570,000	281	1,894	4,410	313	2,600,000	13,927	3,535	1,600,000	834
Godfrey Cr	110,000	18	700,000	352	2,318	5,332	588	3,200,000	17,453	4,317	2,000,000	1,105
Anger Cr	72,092	10	440,000	165	1,517	3,363	260	2,300,000	11,376	2,818	1,400,000	574
Cow Pen St.	390,000	58	2,300,000	1,065	9,247	22,476	800	14,000,000	62,554	16,294	8,000,000	4,241
Myakka	1,100,000	187	6,700,000	3,940	29,737	76,563	1,966	43,000,000	190,000	51,265	24,000,000	15,782
Deer Pt	210,000	35	1,200,000	791	6,265	16,888	239	9,100,000	37,302	10,269	5,100,000	3,664
Big Sough	950,000	124	5,700,000	2,169	22,390	53,493	2,305	35,000,000	150,000	39,243	21,000,000	9,871
Little Salt	65,850	11	440,000	222	1,313	2,918	298	1,600,000	9,980	2,540	1,100,000	512
Braden River	110,000	20	420,000	207	1,349	2,941	224	2,700,000	9,894	2,304	1,100,000	715
City of Sara	130,000	28	920,000	658	2,433	5,557	1,415	2,400,000	18,672	4,531	1,700,000	1,580
County N.	91,244	19	640,000	446	1,892	4,547	519	2,000,000	14,128	3,724	1,300,000	999
City of Ven	120,000	23	920,000	515	1,738	3,257	1,680	1,800,000	15,350	3,252	1,500,000	1,145
County S	68,281	14	480,000	328	1,495	3,631	288	1,600,000	10,896	2,946	1,000,000	713
Longboat	38,839	7	250,000	169	844	2,062	191	970,000	5,717	1,522	630,000	450
City Island	33,670	8	220,000	201	850	2,287	220	940,000	5,420	1,471	560,000	605
Siesta Key	70,234	14	510,000	343	1,388	3,198	416	1,300,000	10,456	2,765	980,000	639
Casey Key	15,946	3	110,000	88	412	1,097	57	460,000	2,674	749	280,000	247
Manasota Key	14,773	3	98,990	68	361	900	48	420,000	2,461	675	260,000	180
TOTAL	5,541,829	921	34,996,470	18,534	121,565	289,140	22,463	168,070,000	861,935	221,817	99,310,000	58,629

From Table 4 it is apparent that the June through September wet season has more rain events, which corresponds to the higher total rainfall previously reported in Table 5. The wet season average for all four stations was 54.2 events, totaling 31.7 inches of rain per season, while the dry season (October through May) average was 45.9 events, totaling 21.6 inches of rain per season.

The seasonal event pollutant loads are the pollutant loads attributed to a typical seasonal "event". These were calculated by dividing the seasonal loads (Table 6 or 7) by the average number of events per corresponding season (Table 4). Table 8 contains the flows and pollutant loads per event for the dry season and Table 9 is the corresponding table for the wet season. The results indicate that the typical wet season event contributes approximately 20 percent more pollutants than the typical dry season event. This can be attributed to the roughly 20 percent greater rainfall per event in the wet season.

In turn, the EMCs were determined by dividing the seasonal loads by the seasonal flows (Table 8 or 9). The results can be seen in Table 10 for the dry season and Table 11 for the wet season. An EMC calculation for wet season BOD is illustrated below.

Example calculation for the Direct to Bay BOD EMC for the wet season.

$$\frac{222 \text{ lb BOD/event}}{33 * 10^6 \text{ L/event}} * \frac{10^6 \text{ mg}}{2.204 \text{ lb}} = 3.0 \text{ mg/L BOD}$$

As expected, a comparison of the dry and wet season results indicates that the EMC is approximately the same in both seasons. More sophisticated models capable of simulating individual events are required to further resolve individual EMC differences. However, it should be noted that one of the conclusions of the Nationwide Urban Runoff Program (USEPA, 1983) was that there is no significant relationship between EMCs and runoff volume. Within the context of those findings, the WMM results are reasonable for seasonal estimates.

Summary

In accordance with permit requirements, the seasonal load and EMC of a typical storm event have been estimated for each basin in Sarasota County. The results indicate that for every basin the wet season produces a higher seasonal pollutant load than the dry season. This can largely be attributed to the wet season's larger number of events and its greater rainfall per event.

Table 8
Estimated Dry Season (Oct. - May)
Event Pollutant Loads from Stormwater and Baseflow with Updated Land Uses and BMPs Included

Basin Name	Flow (ac-ft/event)	BOD (lbs/event)	Cd (lbs/event)	COD (lbs/event)	Cu (lbs/event)	DP (lbs/event)	NO23 (lbs/event)	Pb (lbs/event)	TDS (lbs/event)	TKN (lbs/event)	TP (lbs/event)	TSS (lbs/event)	Zn (lbs/event)
Direct to Bay	1,000	177	0.07	1,000	1.9	8	26	0.5	8,932	35	12	4,575	7.7
Whitaker Bay	4,841	2,397	0.48	17,211	9.8	37	71	26.9	39,216	335	75	30,501	20.0
Hudson Bay	1,001	532	0.11	3,704	2.2	8	15	6.2	7,625	72	16	6,100	4.2
Phillippi Cr.	26,824	12,418	2.16	82,789	42.9	217	465	56.6	261,438	1,806	446	154,684	81.3
Matheney Cr.	1,589	850	0.17	6,100	3.5	13	26	9.0	12,854	117	27	10,240	6.1
Clowers Cr.	850	397	0.07	2,614	1.3	6	12	2.8	7,190	54	12	4,793	2.8
Catfish Cr.	2,717	1,053	0.17	6,536	3.0	20	42	7.2	26,144	157	37	17,428	9.1
North Cr.	1,649	684	0.13	4,575	2.5	13	28	3.9	15,468	103	25	9,804	5.9
South Cr.	7,221	2,397	0.35	14,161	6.3	53	126	10.4	78,431	377	94	47,930	25.1
Shakell Cr.	4,208	1,565	0.24	10,022	4.7	32	74	5.1	43,573	245	63	28,322	13.0
Curry Cr.	4,308	1,687	0.26	11,329	5.4	32	71	7.5	41,394	249	61	28,322	14.0
Hatchett Cr.	2,536	1,074	0.20	7,193	4.0	19	40	10.0	21,786	148	34	16,122	10.5
Alligator Cr.	4,417	1,985	0.35	13,508	7.1	35	70	10.0	41,394	300	74	28,322	13.7
Woodmere	1,567	469	0.09	3,268	2.1	9	19	2.5	8,279	69	18	6,318	3.4
Forked Cr.	3,672	1,323	0.22	8,497	4.2	28	65	4.6	37,037	205	52	23,965	12.3
Godfrey Cr.	3,538	1,672	0.26	10,458	5.2	34	78	8.7	45,752	256	63	28,322	16.3
Anger Cr.	5,316	1,066	0.15	6,536	2.4	22	49	3.9	32,680	167	41	20,479	8.4
Cow Pen St.	22,719	5,882	0.85	34,858	15.8	135	330	11.9	200,436	916	238	117,647	62.4
Myakka	57,738	16,776	2.75	100,218	58.5	434	1,126	29.1	610,022	2,832	750	370,370	232.4
Deer Pt.	12,327	3,050	0.50	17,865	11.7	91	248	3.5	130,719	546	150	78,253	54.0
Big Sough	45,583	13,943	1.81	84,967	32.2	326	785	34.1	501,089	2,179	573	305,011	144.9
Little Salt	2,391	975	0.15	6,536	3.3	19	43	4.4	23,965	147	37	16,340	7.5
Braden River	2,729	1,558	0.31	6,100	3.1	20	43	3.3	39,216	145	34	15,686	10.5
City of Sara.	4,388	1,935	0.41	13,508	9.8	36	82	21.0	34,858	276	67	26,144	23.4
County N.	3,271	1,352	0.28	9,358	6.6	28	67	7.7	28,322	208	55	19,172	14.8
City of Ven.	3,417	1,740	0.35	13,725	7.6	26	48	24.9	26,144	227	48	23,965	16.9
County S.	2,600	1,011	0.20	7,190	4.9	22	54	4.3	23,965	161	43	15,468	10.5
Longboat	1,492	545	0.11	3,704	2.5	12	30	2.8	14,161	84	22	9,368	6.6
City Island	1,546	499	0.11	3,268	3.0	12	34	3.3	13,725	80	22	8,279	9.0
Siesta Key	2,240	1,041	0.22	7,625	5.1	20	47	6.2	19,172	154	41	14,597	9.4
Casey Key	718	236	0.04	1,580	1.3	6	16	0.8	6,754	39	11	4,139	3.6
Manasota Key	621	219	0.04	1,468	1.0	5	13	0.7	6,100	36	10	3,704	2.7
TOTAL	240,940	82,509	13.59	521,477	274.9	1,777	4,251	333.1	2,407,843	12,728	3,252	1,492,375	863.5

Event Pollutant Loads from Stormwater and Baseflow with Updated Land Uses and BMPs Included

	Flow	BOD	Cd	COD	Cu	OP	NO23	Pb	PDS	TKN	TP	TSS	Zn
Rasin Name	(ac-ft/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)	(lbs/event)
Direct to Bay	1,487	222	0.07	1,245	2.4	18	33	0.6	11,439	45	15	5,720	9.6
Whitaker Bay	7,149	3,137	0.59	22,140	12.2	46	89	33.5	48,815	418	93	36,900	25.0
Hudson Bay	1,453	682	0.13	4,613	2.7	18	19	7.7	9,779	90	20	7,565	5.2
Philippi Cr	39,669	15,314	2.69	101,476	53.3	272	583	70.5	332,103	2,214	559	184,502	101.8
Matheney Cr.	2,344	1,057	0.20	7,565	4.4	16	32	10.0	16,052	146	34	12,546	7.7
Crowers Cr.	1,255	495	0.09	3,137	1.6	7	14	3.5	9,041	68	15	5,904	3.5
Catfish Cr	4,026	1,313	0.20	8,118	3.7	25	53	8.9	35,055	197	46	22,140	11.4
North Cr	2,439	852	0.15	5,720	3.2	16	35	4.8	20,295	129	32	12,177	7.3
South Cr.	11,059	2,952	0.42	17,528	7.9	67	159	13.0	101,476	474	118	59,041	32.7
Shakell Cr	6,240	2,030	0.31	12,546	5.9	41	93	6.4	57,196	308	79	35,055	16.3
Curry Cr.	6,378	2,030	0.33	14,207	6.7	40	89	9.4	53,606	313	76	33,210	17.5
Hatchett Cr	3,749	1,338	0.24	9,041	5.0	24	51	12.4	29,520	186	43	20,295	13.1
Alligator Cr.	6,532	2,399	0.44	16,790	8.9	44	95	12.5	51,661	375	93	33,210	17.2
Woodmere	1,423	583	0.11	4,244	2.6	11	24	3.1	10,517	87	22	7,749	4.3
Furked Cr	5,438	1,650	0.25	10,517	5.2	35	81	5.8	47,970	257	65	29,520	15.4
Godfrey Cr	6,837	2,030	0.33	12,915	6.5	43	98	10.8	59,041	322	80	36,900	20.4
Anger Cr	4,471	1,330	0.18	8,118	3.0	28	62	4.8	42,435	210	52	25,830	10.6
Cow Pen Sl	26,850	7,196	1.07	42,435	19.6	171	415	14.8	258,303	1,154	301	147,681	78.2
Myakka	85,648	20,295	3.45	123,616	72.7	549	1,413	36.3	793,358	3,506	946	442,804	291.2
Deer Pr	18,288	3,875	0.65	22,140	14.6	116	312	4.4	167,897	888	189	94,096	67.6
Big Sough	67,684	17,528	2.29	105,166	40.0	413	987	42.5	645,756	2,768	724	387,454	182.1
Little Salt	3,541	1,215	0.20	8,118	4.1	24	54	5.5	29,520	184	47	20,295	9.4
Braden River	4,045	2,030	0.37	7,749	3.8	25	54	4.1	49,815	183	43	20,295	13.2
City of Sara.	6,472	2,399	0.52	16,974	12.1	45	103	26.1	44,280	345	84	31,365	29.2
County N.	4,831	1,683	0.35	11,808	8.2	35	84	9.6	36,900	261	69	23,985	18.4
City of Ven.	5,036	2,214	0.42	16,974	9.5	32	60	31.0	33,210	283	60	27,675	21.1
County S	3,697	1,260	0.26	8,856	6.1	28	67	5.3	29,520	201	54	18,450	13.2
Longboat	2,207	680	0.13	4,613	3.1	16	38	3.5	17,897	105	28	11,624	8.3
City Island	2,285	621	0.15	4,059	3.7	16	42	4.1	17,343	100	27	10,332	11.2
Siesta Key	3,308	1,295	0.26	9,410	6.3	26	59	7.7	23,985	193	51	18,881	11.6

Table 10
Estimated Dry Season (Oct. - May)
EMCs Due to Stormwater and Baseflow with Updated Land Uses and BMPs Included

Table 10 - Estimated dry season (Oct. - May) EMCs due to stormwater and baseflow with updated land uses and BMPs included.

Basin Name	BOD (mg/L)	Cd (mg/L)	COD (mg/L)	Cu (mg/L)	DP (mg/L)	NO23 (mg/L)	Pb (mg/L)	TDS (mg/L)	TKN (mg/L)	TP (mg/L)	TSS (mg/L)	Zn (mg/L)
Direct to Bay	3.0	0.001	17	0.03	0.13	0.44	0.01	150	0.60	0.20	77	0.13
Whitaker Bay	8.4	0.002	60	0.03	0.13	0.25	0.09	137	1.17	0.26	106	0.07
Hudson Bay	9.1	0.002	63	0.04	0.14	0.26	0.11	131	1.23	0.28	104	0.07
Phillippi Cr	7.8	0.001	52	0.03	0.14	0.29	0.04	164	1.14	0.28	97	0.05
Matheney Cr.	9.0	0.002	65	0.04	0.14	0.27	0.09	137	1.25	0.29	109	0.07
Clowers Cr	7.9	0.001	52	0.03	0.11	0.23	0.06	143	1.08	0.24	95	0.06
Callish Cr.	6.5	0.001	41	0.02	0.12	0.26	0.04	162	0.97	0.23	108	0.06
North Cr	7.0	0.001	47	0.03	0.13	0.29	0.04	158	1.06	0.26	100	0.06
South Cr.	5.4	0.001	32	0.01	0.12	0.29	0.02	178	0.85	0.21	109	0.06
Shakett Cr.	6.3	0.001	40	0.02	0.13	0.30	0.02	175	0.98	0.25	114	0.05
Curry Cr	6.6	0.001	44	0.02	0.12	0.28	0.03	162	0.98	0.24	111	0.05
Hatchett Cr	7.1	0.001	48	0.03	0.13	0.27	0.07	145	0.99	0.23	107	0.07
Alligator Cr.	7.6	0.001	52	0.03	0.13	0.29	0.04	158	1.15	0.28	108	0.05
Woodmere	8.2	0.002	57	0.04	0.15	0.33	0.04	145	1.21	0.31	111	0.06
Forked Cr.	6.1	0.001	39	0.02	0.13	0.30	0.02	170	0.94	0.24	110	0.06
Godfrey Cr	6.1	0.001	38	0.02	0.12	0.29	0.03	167	0.94	0.23	104	0.06
Ainger Cr.	6.0	0.001	37	0.01	0.12	0.28	0.02	183	0.93	0.23	115	0.05
Cow Pen Sl	5.5	0.001	33	0.01	0.13	0.31	0.01	187	0.85	0.22	110	0.06
Myakka	4.9	0.001	29	0.02	0.13	0.33	0.01	178	0.83	0.22	108	0.07
Deer Pr.	4.2	0.001	24	0.02	0.13	0.34	0.00	179	0.75	0.21	104	0.07
Big Sough	5.2	0.001	31	0.01	0.12	0.29	0.01	186	0.81	0.21	113	0.05
Little Salt	6.9	0.001	46	0.02	0.14	0.30	0.03	169	1.04	0.26	115	0.05
Braden River	9.6	0.002	38	0.02	0.12	0.27	0.02	243	0.90	0.21	97	0.07
City of Sara.	7.4	0.002	52	0.04	0.14	0.32	0.08	134	1.06	0.26	101	0.09
County N	7.0	0.001	48	0.03	0.14	0.35	0.04	146	1.08	0.28	99	0.08
City of Ven.	8.6	0.002	68	0.04	0.13	0.24	0.12	129	1.12	0.24	118	0.08
County S.	6.8	0.001	49	0.03	0.15	0.36	0.03	162	1.08	0.29	104	0.07
Longboat	6.2	0.001	42	0.03	0.14	0.34	0.03	160	0.95	0.25	106	0.08
City Island	5.4	0.001	36	0.03	0.14	0.37	0.04	150	0.87	0.24	90	0.10
Siesta Key	7.8	0.002	57	0.04	0.15	0.36	0.05	144	1.16	0.31	110	0.07
Casey Key	5.5	0.001	37	0.03	0.14	0.38	0.02	159	0.92	0.26	97	0.09
Manasota Key	5.9	0.001	40	0.03	0.14	0.36	0.02	166	0.98	0.27	101	0.07
AVERAGE	6.7	0.001	44	0.03	0.13	0.31	0.04	161	1.00	0.26	105	0.07

Table 11
Estimated Wet Season (June - Sept)
EMCs Due to Stormwater and Baseflow with Updated Land Uses and BMPs Included

Basin Name	BOD (mg/L)	Cd (mg/L)	COD (mg/L)	Cu (mg/L)	DP (mg/L)	NO23 (mg/L)	Pb (mg/L)	TDS (mg/L)	TKN (mg/L)	TP (mg/L)	TSS (mg/L)	Zn (mg/L)
Direct to Bay	3.0	0.001	17	0.03	0.14	0.44	0.01	153	0.51	0.20	77	0.13
Whitaker Bay	8.8	0.002	62	0.03	0.13	0.25	0.09	139	1.17	0.26	103	0.07
Hudson Bay	9.1	0.002	63	0.04	0.14	0.26	0.11	134	1.23	0.28	104	0.07
Philippi Cr.	7.7	0.001	51	0.03	0.14	0.29	0.04	167	1.11	0.28	93	0.05
Matheney Cr.	9.0	0.002	64	0.04	0.14	0.27	0.09	136	1.24	0.29	107	0.07
Clowers Cr.	7.9	0.001	50	0.03	0.12	0.23	0.06	144	1.08	0.24	94	0.05
Catfish Cr.	6.5	0.001	40	0.02	0.12	0.26	0.04	174	0.97	0.23	110	0.06
North Cr.	7.0	0.001	47	0.03	0.13	0.29	0.04	166	1.05	0.26	99	0.06
South Cr.	5.3	0.001	32	0.01	0.12	0.29	0.02	183	0.85	0.21	106	0.06
Shakett Cr.	6.5	0.001	40	0.02	0.13	0.30	0.02	183	0.98	0.25	112	0.05
Curry Cr.	6.3	0.001	44	0.02	0.12	0.28	0.03	167	0.98	0.24	104	0.05
Hatchett Cr.	7.1	0.001	48	0.03	0.13	0.27	0.07	157	0.99	0.23	108	0.07
Alligator Cr.	7.3	0.001	51	0.03	0.13	0.29	0.04	158	1.14	0.28	101	0.05
Woodmere	8.2	0.002	59	0.04	0.15	0.33	0.04	147	1.21	0.31	109	0.06
Forked Cr.	6.0	0.001	39	0.02	0.13	0.30	0.02	176	0.94	0.24	108	0.06
Godfrey Cr.	5.9	0.001	38	0.02	0.12	0.29	0.03	172	0.94	0.23	109	0.06
Anger Cr.	5.9	0.001	36	0.01	0.12	0.28	0.02	189	0.94	0.23	115	0.05
Cow Pen Sl.	5.3	0.001	31	0.01	0.13	0.31	0.01	192	0.86	0.22	110	0.06
Myakka	4.7	0.001	29	0.02	0.13	0.33	0.01	185	0.82	0.22	103	0.07
Deer Pr.	4.2	0.001	24	0.02	0.13	0.34	0.00	183	0.75	0.21	103	0.07
Sig Sough	5.2	0.001	31	0.01	0.12	0.29	0.01	190	0.81	0.21	114	0.05
Little Salt	6.8	0.001	46	0.02	0.14	0.30	0.03	166	1.04	0.26	114	0.05
Braden River	10.0	0.002	38	0.02	0.12	0.27	0.02	245	0.90	0.21	100	0.06
City of Sara.	7.4	0.002	52	0.04	0.14	0.32	0.08	136	1.06	0.26	97	0.09
County N	6.9	0.001	49	0.03	0.14	0.35	0.04	152	1.08	0.28	99	0.08
City of Ven.	8.8	0.002	67	0.04	0.13	0.24	0.12	131	1.12	0.24	110	0.08
County S.	6.8	0.001	48	0.03	0.15	0.36	0.03	159	1.08	0.29	99	0.07
Longboat	6.1	0.001	42	0.03	0.14	0.34	0.03	162	0.95	0.25	105	0.07
City Island	5.4	0.001	35	0.03	0.14	0.37	0.04	151	0.87	0.24	90	0.10
Siesta Key	7.8	0.002	57	0.04	0.15	0.36	0.05	144	1.16	0.31	108	0.07
Casey Key	5.5	0.001	38	0.03	0.14	0.38	0.02	159	0.92	0.26	97	0.09
Manasota Key	5.9	0.001	40	0.03	0.14	0.36	0.02	168	0.98	0.27	104	0.07
AVERAGE	6.7	0.001	44	0.03	0.13	0.31	0.04	165	1.00	0.25	103	0.07

Literature Cited

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Exhibit A

40 CFR 122.26(d)(2)(iii)(B)
SARASOTA COUNTY MS4
NPDES PERMIT APPLICATION PART 2

TABLE 10
EXISTING ANNUAL LOADING (lbs/yr)
FROM STORMWATER AND BASEFLOW

	BOD	COD	TSS	TDS	Total-P	Dissolved-P
	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)
DIRECT TO BAY	21,500	123,000	555,900	1,078,600	1,400	970
WHTAKER BAY	305,000	2,119,100	3,526,700	4,694,100	9,100	4,500
HUDSON BAY	67,400	473,900	770,600	945,100	2,100	1,000
PHILLIPPI CR.	1,552,100	10,381,900	20,773,900	30,576,100	55,200	26,000
MATHENEY CR.	100,100	699,000	1,198,300	1,523,800	3,200	1,500
CLOWERS CR.	48,900	318,500	583,500	860,800	1,500	690
CATFISH CR.	129,200	810,400	2,132,900	3,237,800	4,500	2,300
NORTH CR.	56,800	345,100	1,078,900	1,716,800	2,250	1,100
SOUTH CR.	279,300	1,670,400	5,822,200	9,335,500	11,300	6,200
SHAKETT CR.	191,500	1,341,000	3,386,200	5,284,000	7,600	3,900
CURRY CR.	163,800	1,041,900	2,442,000	3,804,000	5,700	2,900
HATCHETT CR.	123,500	803,700	1,828,100	2,728,000	4,200	2,200
ALLIGATOR CR.	243,600	1,655,200	3,362,700	4,874,100	9,000	4,200
WOODMERE	81,500	561,100	1,322,900	1,835,600	3,200	1,600
FORKED CR.	173,900	1,166,100	3,051,100	4,504,200	6,700	3,500
GODFREY CR.	163,900	1,063,800	2,899,700	4,305,500	6,400	3,300
KAINGER CR.	202,100	1,207,700	4,450,500	7,036,200	8,400	4,700
COW PEN SL.	707,900	4,144,600	14,584,200	23,769,100	25,600	16,100
MYAKKA	2,061,600	13,165,700	44,223,200	73,323,600	90,100	52,000
DEER PR.	582,300	2,186,500	9,347,500	15,600,000	18,000	11,000
BIG SLOUGH	1,707,500	10,335,600	37,934,800	59,547,800	65,700	38,900
LITTLE SALT	119,600	808,900	2,006,300	2,821,600	4,500	2,300
BRADEN RIVER	191,100	757,500	1,939,500	4,723,800	4,100	2,400
CITY OF SARA	238,100	1,679,700	3,187,700	4,275,600	8,200	4,300
COUNTY NORTH	166,000	1,163,900	2,368,900	3,420,000	6,700	3,400
CITY OF VEN.	214,200	1,681,300	2,830,700	3,205,500	5,900	3,100
COUNTY SOUTH	124,100	875,300	1,910,500	2,761,100	5,300	2,600
LONGBOAT	66,800	452,100	1,143,600	1,687,700	2,700	1,500
CITY ISL.	61,100	406,400	1,021,400	1,633,800	2,600	1,500
SIESTA KEY	128,000	930,000	1,788,200	2,296,900	5,000	2,500
CASEY KEY	28,900	194,300	508,100	801,500	1,300	720
MANASOTA KEY	26,800	180,900	465,800	733,400	1,200	630
TOTAL	10,128,500	63,644,500	184,546,500	288,945,600	394,600	213,510

40 CFR 122.26(d)(2)(iii)-B)
 SARASOTA COUNTY MS4
 NPDES PERMIT APPLICATION PART 2

TABLE 10 (Cont.)
 EXISTING ANNUAL LOADING (lbs/yr)
 FROM STORMWATER AND BASEFLOW

	TKN (lbs/yr)	NO ₂ &NO ₃ (lbs/yr)	TN	Lead (lbs/yr)	Copper (lbs/yr)	Zinc (lbs/yr)	Cadmium (lbs/yr)
DIRECT TO BAY	4,300	3,200	7,500	50	250	970	10
WHITAKER BAY	40,900	8,700	49,600	3,200	1,100	2,500	50
HUDSON BAY	9,200	2,000	11,200	700	360	500	10
PHILLIPPI CR.	222,800	56,600	279,400	7,500	5,200	10,300	280
MATHENEY CR.	13,800	3,100	16,900	910	380	730	20
CLOWERS CR.	6,600	1,400	8,000	330	150	340	10
CATFISH CR	19,000	5,100	24,100	860	350	1,100	20
NORTH CR	8,900	2,500	11,400	120	100	380	0
SOUTH CR	44,500	14,900	59,700	520	650	2,700	40
SHAKETT CR	28,700	9,000	38,700	510	570	1,600	30
CURRY CR.	23,000	6,500	29,500	600	510	1,200	30
HATCHETT CR.	17,200	4,500	22,500	920	420	1,200	20
ALLIGATOR CR	36,500	9,200	45,700	1,200	830	1,700	50
WOODMERE	12,300	3,500	15,900	320	230	590	10
FORKED CR.	26,400	8,100	34,500	590	570	1,500	30
GODFREY CR	25,200	7,600	32,800	690	510	1,400	30
RINGER CR	32,700	11,300	44,000	280	460	1,900	20
COW PEN SL	110,400	39,900	150,300	1,400	2,000	7,700	100
MYAKKA	336,500	136,400	473,200	3,400	7,500	28,800	330
DEER PR	65,600	30,100	95,700	400	1,600	6,700	70
BIG SLOUGH	271,900	94,700	366,600	4,000	4,100	17,800	220
LITTLE SALT	17,800	5,200	23,000	530	390	920	20
BRADEN RIVER	17,600	5,200	22,800	410	370	1,300	40
CITY OF SARA	33,700	10,000	43,700	2,500	1,200	2,900	50
COUNTY NORTH	25,400	8,200	33,600	1,000	500	1,900	30
CITY OF VEN	27,800	5,900	33,700	3,000	500	2,100	40
COUNTY SOUTH	19,500	6,500	26,000	520	580	1,300	20
LONGBOAT	10,200	3,700	13,900	340	300	820	10
CITY ISL	9,700	4,100	13,800	390	370	1,100	10
SIESTA KEY	18,900	5,800	24,700	740	600	1,200	20
CASEY KEY	4,800	2,000	6,800	100	160	450	10
MANASOTA KEY	4,400	1,600	6,000	80	120	330	0
TOTAL	1,548,300	516,900	2,065,200	35,310	33,610	105,930	1,530