

# ANNUAL REPORT FORM FOR INDIVIDUAL NPDES PERMITS FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS (RULE 62-624.600(2), F.A.C.)

- This Annual Report Form must be completed and submitted to the Department to satisfy the annual reporting requirements established in Rule 62-621.600, F.A.C.
- Submit this fully completed and signed form and any REQUIRED attachments by mail to the address in the box at right.
- Refer to the Form Instructions for guidance on completing each section.
- Please print or type information in the appropriate areas below.

**Submit the form and attachments to:**  
Florida Department of Environmental  
Protection  
Mail Station 2500  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

## SECTION I. BACKGROUND INFORMATION

A.	Permittee Name: <b>Town of Mangonia Park</b>		
B.	Permit Name: <b>Palm Beach County Municipal Separate Storm Sewer System</b>		
C.	Permit Number: <b>FLS000018-003 (Cycle 3)</b>		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input checked="" type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 <input type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Other, specify Year:		
E.	Reporting Time Period (month/year): <b>09/ 2011</b> through <b>10 / 2012</b>		
F.	Name of the Responsible Authority: <b>Lee Leffingwell</b>		
	Title: <b>Town Manager</b>		
	Mailing Address: <b>1755 East Tiffany Drive</b>		
	City: <b>Mangonia Park</b>	Zip Code: <b>33407</b>	County: <b>Palm Beach</b>
	Telephone Number: <b>561-848-1235</b>		Fax Number: <b>561-848-6940</b>
G.	E-mail Address: <b>lleffingwell@townofmangoniapark.com</b>		
	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): <b>Same as above</b>		
	Title:		
	Department:		
	Mailing Address:		
	City:	Zip Code:	County:
	Telephone Number:		Fax Number:
	E-mail Address:		

## SECTION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable In Year 1)

A.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): <b>0</b> (Does this number include non-major outfalls? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable)
B.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): <b>0</b> (Does this number include non-major outfalls? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

### SECTION III. MONITORING PROGRAM

Provide a brief statement as to the status of monitoring plan implementation:

A. Reference Joint Report

Provide a brief discussion of the monitoring results to date:

B. Reference Joint Report

C. Attach a monitoring data summary, as required by the permit. Reference Joint Report

### SECTION IV. FISCAL ANALYSIS

Total expenditures for the NPDES stormwater management program for the current reporting year: \$65,933.

*DEP Note: If program resources have decreased from the previous year, See Attached Exhibit*

Total budget for the NPDES stormwater management program for the subsequent reporting year: \$1,360,000.

See Attached exhibit

### SECTION V. MATERIALS TO BE SUBMITTED WITH THIS ANNUAL REPORT FORM

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

Attached

N/A



Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below.



A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C. See Joint Annual Report



Year 1 ONLY: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM) in accordance with Rule 62-624.600(2)(a), F.A.C.



Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C.



Year 4 ONLY: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C.

#### DO NOT SUBMIT ANY OTHER MATERIALS

(such as records and logs of activities, monitoring raw data, public outreach materials, etc.)

### SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

The Responsible Authority listed in Section I.F above must sign the following certification statement, as per Rule 62-620.305, F.A.C:

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

Name of Responsible Authority (type or print): Lee Leffingwell

Title: Town Manager

Signature:

*Lee Leffingwell*

Date:

5/20/13

# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.		C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity		Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1	Structural Controls and Stormwater Collection Systems Operation					
	Maintain an up-to-date inventory of the structural controls and roadway stormwater collection structures operated by the permittee, including, at a minimum, all of the types of control structures listed in Table II.A.1.a of the permit. Report the current known inventory.					
	Report the number of inspection and maintenance activities conducted for each type of structure included in Table II.A.1.a, and the percentage of the total inventory of each type of structure inspected and maintained. If the minimum inspection frequencies set forth in Table II.A.1.a were not met, provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.					
Type of Structure	Number of Activities Performed				Entity Performing the Activity	Comments
	Total Number of Structures	Number of Inspections	Percentage Inspected	Number of Maintenance Activities	Percentage Maintained	
Dry retention systems	0	0	0	0	0	Have None
Exfiltration trench / French drains (linear feet)	1360	1	100	1	100	100% Complete
Grass treatment swales (LF)	4870	0	4	0	0	100% Done last year-Maintained
Dry detention systems	0					Have None
Wet detention systems	0					Have None
Pollution control boxes	0					Have None
Stormwater pump stations	0	0	0	0	0	Have None
Major stormwater outfalls	1	0	0	0	0	Will insp next yr
Weirs or other control structures	1	0	0	0	0	Will insp next yr
MS4 pipes / culverts (miles)	0					Only exfil sys
Inlets / catch basins / grates	12	0	0	1	100%	Done w/exfil clin
Ditches / conveyance swales (miles)	0					Have None

# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	ATTACH explanation if any of the minimum inspection frequencies in Table II.A.1.a were not met Year 1 ONLY: Attach a map of all known major outfalls as per Rule 62-624.600(2)(a), F.A.C.		Form DSIR-TA N/A	Town Eng. Plan Consult Administration	100% done last year 1 Done yr 1 also ref SOP
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Report the number of new development and significant redevelopment projects reviewed by the permittee for post-development stormwater considerations.				
	Number of new development / significant redevelopment projects reviewed	0	Site Plan Letters	Town Administration	No Dev. during rep per
	Provide in the Year 2 Annual Report the summary report of the review of local codes activity. Provide in the Year 4 Annual Report the follow-up report on plan implementation of modifying codes to allow low impact design BMPs.				
	Year 2 ONLY: Attach the summary report of the review activity Year 4 ONLY: Attach the follow-up report on plan implementation		LDR Summary report N/A	Administration N/A	See Attached N/A
Part III.A.3	Roadways				
	Annually review (and revise, as needed) and implement the permittee's written procedures for the litter control program(s) for public streets, roads, and highways, including rights-of-way, employed within the permittee's jurisdictional area and properly dispose of collected material. Implement the program on a monthly, or on an as needed, basis. Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected.				
	PERMITTEE Litter Control Program: Frequency of litter collection	Daily	Monthly Litter Report	Admin.	
	PERMITTEE Litter Control Program: Estimated amount of area maintained (linear feet)	2435	Monthly Litter Report	Admin.	
	PERMITTEE Litter Control Program: Estimated amount of litter collected (gallons)	693	Monthly Litter Report	Admin.	
	CONTRACTOR Litter Control Program: Frequency of litter collection	0			Do Not Contract
	CONTRACTOR Litter Control Program: Estimated amount of area maintained (linear feet)	0			Do Not Contract
	CONTRACTOR Litter Control Program: Estimated amount of litter collected (cubic yards)	0			Do Not Contract



# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	If an Adopt-A-Road or similar program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected.				
	Keep PBC Beautiful Trash Pick-up Events: Total miles cleaned	0			Do not have
	Keep PBC Beautiful Trash Pick-up Events: Estimated amount of litter collected (cubic yards)	0			Do not have
	Adopt-A-Road Program: Total miles cleaned	0			Do not have
	Adopt-A-Road Program: Estimated amount of litter collected (cubic yards)	0			Do not have
Report on the street sweeping program, including the frequency of the sweeping, total miles swept, an estimate of the quantity of sweepings collected, and the total nitrogen (TN) and total phosphorus (TP) loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in the Year 1 Annual Report.					
	Frequency of street sweeping	0			Do not have
	Total miles swept (per year)	0			Road w / C & G
	Estimated quantity of sweeping material collected (cubic yards)	0			in NPDES Area
	Total nitrogen loadings removed (pounds)	0			
	Total phosphorus loadings removed (pounds)	0			
	Year 1 ONLY: If have curbs and gutters, attach explanation of why no street sweeping program and the alternate BMPs used or planned	N/A			Do not have road w/curb and gutter
Annually review (and revise, as needed) and implement the permittee's written standard practices to reduce the pollutants in stormwater runoff from areas associated with road repair and maintenance, and from permittee-owned or operated equipment yards and maintenance shops that support road maintenance activities. Report the number of applicable facilities and the number of inspections conducted for each facility.					
		Number of Inspections			
	Name of facility: N/A	0	N/A	N/A	Have none
	Name of facility:				
	Name of facility:				
	Name of facility:				

# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.4	Flood Control Projects				
	Report the total number of flood control projects that were constructed by the permittee during the reporting period and the number of those projects that did NOT include stormwater treatment. The permittee shall provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not. Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.				
	Flood control projects completed during the reporting period	0			Had none
	Flood control projects completed during the reporting period that did not include stormwater treatment	0			
	ATTACH a list of the flood control projects that did not include stormwater treatment and an explanation for each of why it was not	0			
	Stormwater retrofit projects planned	1	Hill Ave Plans	Town Eng.	Started 12/12
	Stormwater retrofit projects under construction during the reporting period	0			Not started yet
	Stormwater retrofit projects completed during the reporting period	0			Not started yet
Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				
	Annually review (and revise, as needed) and implement the permittee's written procedures for inspections and the implementation of measures to control discharges from the following facilities that are not otherwise covered by an NPDES stormwater permit: <ul style="list-style-type: none"> <li>Operating municipal landfills;</li> <li>Municipal waste transfer stations;</li> <li>Municipal waste fleet maintenance facilities; and</li> <li>Any other municipal waste treatment, waste storage, and waste disposal facilities.</li> </ul>				
	Report the number of applicable facilities and the number of the inspections conducted for each facility.				

**SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE**

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
		Number of Inspections			
	Name of facility:	0			Have none
	Name of facility:				
	Name of facility:				
	Name of facility:				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Continue to require proper certification and licensing by the Florida Department of Agriculture and Consumer Services (FDACS) for all applicators contracted to apply pesticides, herbicides, or fertilizers on permittee-owned property, as well as any permittee personnel employed in the application of these products. Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed. Report the number of permittee personnel and contractors who have been trained through the Green Industry BMP Program, and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.				
	PERSONNEL: Florida Department of Agriculture and Consumer Services (FDACS) certified applicators of pesticides and herbicides CONTRACTORS: FDACS certified / licensed applicators of pesticides and herbicides  CONTRACTORS: FDACS certified / licensed applicators of fertilizer PERSONNEL: Green Industry BMP Program training completed CONTRACTORS: Green Industry BMP Program training completed  Pursuant to SB 2080 (2009), all local governments are encouraged to adopt a Florida-friendly Landscaping Ordinance similar to the one set forth in the document "Florida-friendly Guidance Models for Ordinances, Covenants and Restrictions." If the broader Florida-friendly ordinance described above is not adopted, then all local governments within the watershed of a nutrient-impaired water body shall adopt the Department's Model Ordinance for Florida-Friendly Fertilizer Use on Urban Landscapes pursuant to SB 494 (2009) or an ordinance that includes all of the requirements set forth in the Model Ordinance. The ordinance shall be adopted within 24 months of the date of permit issuance. Provide a copy of the adopted ordinance with the subsequent Year 1 or Year 2 Annual Report.	0			Contracted Service
		1	State License	Tomasello	
		0			
		0			
		0			
	Year 1 or Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance	1	Ordinance 2012-08	Town Admin. Council	See attached
	During Year 1 of the permit, develop and implement a written public education and outreach program plan to encourage citizens to reduce their use of pesticides, herbicides, and fertilizers. Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides, and fertilizers, including the type and number of activities conducted, the type and number of materials distributed, the percentage of the population reached by the activities in total, and the number of Web site visits (if applicable). Activities performed under the Florida Yards and Neighborhoods (FYN) program should only be reported if the permittee is contributing funding towards the FYN staff and program within its jurisdiction.				

## SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

[illegible]

# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.7.a	<p><b>Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures</b></p> <p>Where applicable, strengthen the legal authority to conduct inspections, conduct monitoring, control illicit discharges, illicit connections, illegal dumping and spills into the MS4 and to require compliance with conditions in ordinances, permits, contracts, and orders. Report amendments, as needed.</p>	0	Tw code sec 26-41 to 64	Town Council	See attached
Part III.A.7.c	<p><b>Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal</b></p> <p>During Year 1 of the permit, develop and implement a written proactive inspection program plan for identifying and eliminating sources of illicit discharges, illicit connections, or dumping to the MS4. Report on the proactive inspection program, including the number of inspections conducted, the number of illicit activities found, and the number and type of enforcement actions taken.</p>				
	<p>Proactive inspections for suspected illicit discharges / connections / dumping</p> <p>Illicit discharges / connections / dumping found during a proactive inspection</p> <p>Notices of Violation (NOVs) / warning letters / citations issued for illicit discharges / connections / dumping found during a proactive inspection</p> <p>Fines issued for illicit discharges / connections / dumping found during a proactive inspection</p>	0	Form PID-TA (2011)	Town Admin.	Done but no record kept
		0	Form PID-TA (2011)	Town Admin	
		0	Form PID-TA (2011)	Town Admin	
		0	Form PID-TA (2011)	Town Admin	

# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Annually review (and revise, as needed) and implement the permittee's written procedures to conduct reactive investigations to identify and eliminate the source(s) of illicit discharges, illicit connections or improper disposal to the MS4, based on reports received from permittee personnel, contractors, citizens, or other entities regarding suspected illicit activity. Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken.				
	<p>Reports of suspected illicit connections / discharges / dumping received</p> <p>Reactive investigations of reports of suspected illicit discharges / connections / dumping</p> <p>Illicit discharges / connections / dumping found during a reactive investigation</p> <p>Notices of Violation (NOVs) / warning letters / citations issued for illicit discharges / connections / dumping found during a reactive investigation</p> <p>Fines issued for illicit discharges / connections / dumping found during a reactive investigation</p> <p>During Year 1 of the permit, develop and implement a written plan for the training of all appropriate permittee personnel (including field crews, fleet maintenance staff, and inspectors) and contractors to identify and report conditions in the stormwater facilities that may indicate the presence of illicit discharges / connections / dumping to the MS4. Follow-up training shall be provided annually. Report the number and type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training).</p>	<p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p>	<p>Form PRI-TA (2011)</p> <p>Form PID-TA (2011)</p> <p>Form PID-TA (2011)</p> <p>Form PID-TA (2011)</p> <p>Form PID-TA (2011)</p>	<p>Administration</p> <p>Administration</p> <p>Administration</p> <p>Administration</p> <p>Administration</p>	<p>No report</p> <p>No report</p> <p>No report</p> <p>No report</p> <p>No report</p>
Part III.A.7.d	Illicit Discharges and Improper Disposal — Spill Prevention and Response				
	Annually review (and revise, as needed) and implement the permittee's written spill-prevention/spill-response plan and procedures to prevent, contain, and respond to spills that discharge into the MS4. Report on the spill prevention and response activities, including the number of spills addressed.				
	<p><i>DEP Note: The permittee may report the number of hazardous material spills separately from the number of non-hazardous material spills, or report one combined number, to more accurately reflect its tracking of these spills.</i></p> <p>Hazardous and non-hazardous material spills responded to</p>	0	Fire Dept. Record	WPBFD	Had None
	During Year 1 of the permit, develop and implement a written plan for the training of all appropriate permittee personnel (including field crews, firefighters, fleet maintenance staff and inspectors) and contractors on proper spill prevention, containment, and response techniques and procedures. Follow-up training shall be provided annually. Report the number and type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training).				

**SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE**

[illegible]

# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.7.f	<p><b>Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control</b></p> <p>During Year 1 of the permit, develop and implement a written public education and outreach program plan to encourage the proper use and disposal of used motor vehicle fluids, leftover hazardous household products, and lead acid batteries. Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the proper use and disposal of oils, toxics, and household hazardous waste, including the type and number of activities conducted, the type and number of materials distributed, the amount of waste collected / recycled / properly disposed, the percentage of the population reached by the activities in total, and the number of Web site visits (if applicable).</p>				
	<p><b>Public education and outreach program</b></p> <p>The public outreach and education plan is carried out as a joint effort by the Palm Beach County Co-permittees. Please see the Palm Beach County Joint Annual Report for the public education and outreach information.</p>				
	<p><b>Newspapers &amp; newsletters: Number of articles/notices published</b></p> <p><b>Newsletters: Number of newsletters distributed</b></p> <p><b>Public displays (e.g., kiosks, storyboards, posters, etc.)</b></p>	<p>2</p> <p>500</p> <p>1</p>	<p>Newsletter</p> <p>Newsletter</p> <p>Poster</p>	<p>Administration</p> <p>Administration</p> <p>Administration</p>	<p></p> <p>Poster at T Hall</p>
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage				



# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Annually review (and revise, as needed) and implement the permittee's written procedures to reduce or eliminate sanitary wastewater contamination into the MS4, including discharges to the MS4 from sanitary sewer overflows (SSOs) and from inflow / infiltration from collection / transmission systems and/or septic tank systems. Advise the appropriate utility owner of a violation if constituents common to wastewater contamination are discovered in the MS4. Report on the type and number of activities undertaken to reduce or eliminate SSOs and inflow/infiltration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction.				
	Activity to reduce/eliminate SSOs and inflow / infiltration: Repair / lining of sanitary sewer system	0			No repairs in MS4
	Activity to reduce/eliminate SSOs and inflow / infiltration: Septic systems removed	0	----	----	No septic in MS4
	Activity to reduce/eliminate SSOs and inflow / infiltration: Emergency generator added	1	Receipt	Utility	Gen. at mst. LS
	SSO incidents discovered	0			Had none
	SSO incidents resolved	0			
	Inflow / infiltration incidents discovered	0			
	Inflow / infiltration incidents resolved	0			
	Name of owner of the sanitary sewer system	0			
	Town of Mangonia Park				
Part III.A.8.a	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections				
	<p>Continue to maintain an up-to-date inventory of all existing high risk facilities discharging into the permittee's MS4. The inventory shall identify the outfall and surface water body into which each high risk facility discharges. For the purposes of this permit, high risk facilities include:</p> <ul style="list-style-type: none"> <li>• Operating municipal landfills;</li> <li>• Hazardous waste treatment, storage, disposal and recovery facilities;</li> <li>• Facilities that are subject to EPCRA Title III, Section 313 (also known as the Toxics Release Inventory (TRI) maintained by the U.S. EPA); and</li> <li>• Any other industrial or commercial discharge that the permittee determines is contributing a substantial pollutant loading to the permittee's MS4. This could include facilities identified through the proactive inspection program as per Part III.A.7.c of the permit.</li> </ul> <p>Report on the high risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year.</p>				

# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	During Year 1 of the permit, develop and implement a written plan for conducting inspections of high risk facilities to determine compliance with all appropriate aspects of the stormwater program. While the permittee may determine the order and frequency of the inspections, the permittee shall inspect each identified facility at least once during the permit term; however, facilities identified as high risk due to the findings of the proactive inspection program as per Part III.A.7.c of the permit shall be inspected annually. Report on the high risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.				
		For violations discovered during a high risk inspection			
		Number of Facilities	Number of Inspections	Fines issued	Notices of Violation (NOVs) / warning letters / citations issued
	Total high risk facilities	0			
	New high risk facilities added to the inventory during the current reporting period	0			None in MS4
	Operating municipal landfills	0			
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0			Do not have
	EPCRA Title III, Section 313 facilities (that are not landfills or HWTSDR facilities)	0			Do not have
	Facilities determined as high risk by the permittee through the proactive inspections as per Part III.A.7.c	0			Do not have
	Other facilities determined as high risk by the permittee (that are not facilities identified through the proactive inspections)	0			None found
					None found
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries				
	Sampling of the discharge to the stormwater system may be required on an as-needed basis in the event that inspections of high-risk facilities disclose suspected illicit discharges to the MS4. New high-risk industrial facilities as defined in 40 CFR 122.26(d)(2)(iv)(C) must be evaluated to determine if the new discharge is contributing a substantial pollutant load to the MS4. The evaluation may include site-specific monitoring. Report the number of high risk facilities sampled.				
		High risk facilities sampled		0	See above
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices				
	Continue to implement the local codes or land development regulations and the written pre-construction site plan review procedures that require the use and maintenance of appropriate structural and non-structural erosion and sedimentation controls during construction to reduce the discharge of pollutants to the MS4. Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.				

# SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<p>PERMITTEE SITES: Construction site plans reviewed</p> <p>PERMITTEE SITES: Construction site plans approved</p> <p>PRIVATE SITES: Construction site plans reviewed</p> <p>PRIVATE SITES: Construction site plans approved</p>	<p>0</p> <p>0</p> <p>0</p> <p>0</p>	<p></p> <p></p> <p>Approval letter</p> <p>Approval letter</p>	<p></p> <p></p> <p>Town Admin.</p> <p>Town Admin.</p>	
	Annually review (and revise, as needed) and implement the permittee's written procedures to notify all new development / redevelopment permit applicants of the need to obtain all required stormwater permits. Report the number of new development/redevelopment permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.				
	Notified of ERP stormwater permit requirements	0			None in MS4
	Confirmed ERP coverage	0			
	Notified of CGP stormwater permit requirements	0			
	Confirmed CGP coverage	0			
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement				
	As an attachment to the Year 1 Annual Report, the permittee shall submit a written plan that details the standard operating procedures for implementation of the stormwater, erosion and sedimentation inspection program for construction sites discharging stormwater to the MS4. The permittee shall implement the plan for inspecting construction sites immediately upon written approval by the Department. Prior to Department approval, the permittee shall continue to perform inspections in accordance with its previously developed construction site inspection procedures. Report on the inspection program for privately-operated and permittee-operated construction sites, including the number of active construction sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.				
	PERMITTEE SITES: Active construction sites	0			None in MS4
	PERMITTEE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs	0			None in MS4
	PERMITTEE SITES: Percentage of active construction sites inspected	0			None in MS4
	PRIVATE SITES: Active construction sites	0			None in MS4
	PRIVATE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs	0			None in MS4
	PRIVATE SITES: Percentage of active construction sites inspected	0			None in MS4
	Notices of Violation (NOVs) / warning letters / citations issued	0			None in MS4
	Stop Work Orders issued	0			None in MS4
	Fines issued	0			None in MS4
	Year 1 ONLY: Attach the written construction site inspection program plan				

## SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Year 1 ONLY: Attach the written construction site inspection program plan	0			
	0				
Part III.A.9.c	Construction Site Runoff — Site Operator Training				
	During Year 1 of the permit, develop and implement a written plan for stormwater training / outreach for construction site plan reviewers, site inspectors and site operators. Provide training for permittee personnel (employed by or under contract with the permittee) and private persons involved in the site plan review, inspection or construction of stormwater management, erosion, and sedimentation controls. All inspectors of construction sites shall be certified through the Florida Stormwater, Erosion, and Sedimentation Control Inspector Training program, or an equivalent program approved by the Department. Follow-up training shall be provided annually. Report the number and type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training), and the number of private persons trained by the permittee.				
	Permittee construction site inspectors	0	0		Schedule for year 3
	Permittee construction site plan reviewers	0	0		Schedule for year 3
	Permittee construction site operators	0	0		Have none
	Private persons	0	0		

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)

Permit Citation/ SWMP Element	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.
A.	N/A

**SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)**

Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit  
(Including the Rationale for the Change)

B.

Permit Citation/  
SWMP Element

N/A

# CHECKLIST A: ATTACHMENTS TO BE SUBMITTED WITH THE ANNUAL REPORTS

Below is a list of items required by the permit that may need to be attached to the annual report. Please check the appropriate box to indicate whether the item is attached or is not applicable for the current reporting period. Please provide the number and the title of the attachments in the blanks provided.

Attached	N/A	Rule / Permit Citation	Required Attachment	Attachment Number	Attachment Title
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part II.F	EACH ANNUAL REPORT: If program resources have decreased from the previous year, a discussion of the impacts on the implementation of the SWMP.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.1	EACH ANNUAL REPORT: An explanation of why the minimum inspection frequency in Table II.A.1.a was not met, if applicable.		Resource Allocation
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.4	EACH ANNUAL REPORT: A list of the flood control projects that did not include stormwater treatment and an explanation for each of why it did not, if applicable.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.7.a	EACH ANNUAL REPORT: A report on amendments / changes to the legal authority to control illicit discharges, connections, dumping, and spills, if applicable.		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part V.B.9	EACH ANNUAL REPORT: Reporting and assessment of monitoring results. [Also addressed in Section III of the Annual Report Form]		Joint annual report
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part VI.B.2	EACH ANNUAL REPORT: An evaluation of the effectiveness of the SWMP in reducing pollutant loads discharged from the MS4 that, at a minimum, must include responses to the questions listed in the permit.		Administration / MP-1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part VIII.B.3.e	EACH ANNUAL REPORT: A status report on the implementation of the requirements in this section of the permit and on the estimated load reductions that have occurred for the pollutant(s) of concern.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part VIII.B.4.f	EACH ANNUAL REPORT after approval of the BPCP: The status of the implementation of the Bacterial Pollution Control Plan (BPCP).		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rule 62-624.600(2)(a), FAC	YEAR 1: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM).		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.3	YEAR 1: If have curbs and gutters but no street sweeping program, an explanation of why no street sweeping program and the alternate BMPs used or planned.		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.6	YEAR 1 or YEAR 2: A copy of the adopted Florida-friendly Ordinance, if		Ordinance 2012-08
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.7.c	YEAR 1: A proactive illicit discharge / connection / dumping inspection program		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.9.b	YEAR 1: A construction site inspection program plan. [For approval by DEP]		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part II.A	YEAR 2: Stormwater Management Program (SWMP)		Ref. Sop's / NPDES website for interlocals and stormwater ordinances on disc
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.2	YEAR 2: A summary report of a review of codes and regulations to reduce the stormwater impact from new development / redevelopment.		LDR Summary Report
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part V.A.2	YEAR 3: Estimates of annual pollutant loadings and EMCs, and a table comparing the current calculated loadings with those from the previous two Year 3 ARs.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.2	YEAR 4: A follow-up report on plan implementation of changes to codes and regulations to reduce the stormwater impact from new development /		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part V.A.3	YEAR 4: If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part V.B.3	YEAR 4: The monitoring plan (with revisions, if applicable).		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part VII.C	YEAR 4: An application to renew the permit.		

## CHECKLIST B: THE REQUIRED ANNUAL REVIEWS OF WRITTEN STANDARD OPERATING PROCEDURES (SOPs) & PLANS

The permit requires annual review, and revision if needed, of written Standard Operating Procedures (SOPs) and plans (e.g., public education and outreach, training, inspections). Please indicate your review status below. If you have made revisions that need DEP approval, you must complete Section VIII.A of the annual report.

Did not complete review of existing SOP / Plan	Developed new written SOP / Plan	Reviewed & no revision needed to existing SOP / Plan	Reviewed & revised existing SOP / Plan	Permit Citation	Description of Required SOPs / Plans
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.1	SOP and/or schedule of inspections and maintenance activities of the structural controls and roadway stormwater collection system.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.2	SOP for development project review and permitting procedures and/or local codes and regulations for new development / areas of significant development.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.3	SOP for the litter control program.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.3	SOP for the street sweeping program.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.3	SOP for inspections of equipment yards and maintenance shops that support road maintenance activities.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.5	SOP for inspections of waste treatment, storage, and disposal facilities not covered by an NPDES stormwater permit.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.6	Plan for public education and outreach on reducing the use of pesticides, herbicides and fertilizer.
N/A	N/A	N/A	N/A	Part III.A.6	Plan for pesticide, herbicide and fertilizer application training <i>DEP Note: A plan is not necessary since the FDACS certification / licensing program adequately fulfills the permit requirement.</i>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.6	SOP for reducing the use of pesticides, herbicides and fertilizer, and for the proper application, storage and mixing of these products.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.7.c	Plan for proactive illicit discharge / connections / dumping inspections.*
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.7.c	SOP for reactive illicit discharge / connections / dumping investigations.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.7.c	Plan for illicit discharge training.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.7.d	SOP for spill prevention and response efforts.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.7.d	Plan for spill prevention and response training.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.7.e	Plan for public education and outreach on how to identify and report the illicit discharges and improper disposal to the MS4.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.7.f	Plan for public education and outreach on the proper use and disposal of oils, toxics and household hazardous waste.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.7.g	SOP to reduce / eliminate sanitary wastewater contamination of the MS4.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.8	SOP for inspections of high risk industrial facilities.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.9.a	SOP for construction site plan review for stormwater, erosion and sedimentation controls, and ERP and CGP coverage.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Part III.A.9.b	Plan for inspections of construction sites.*
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Part III.A.9.c	Plan for stormwater, erosion and sedimentation BMPs training.

\* Revisions to these plans require DEP approval -- please complete Section VIII.A of the annual report.

REMINDER LIST OF THE TMDL / BMAP REPORTS TO BE SUBMITTED SEPARATELY FROM AN ANNUAL REPORT		
Rule / Permit Citation	Report Title	Due Date
Part VIII.B.3.a	6 MONTHS from effective date of permit: TMDL Prioritization Report.	9/2/11
Part VIII.B.3.b	12 MONTHS from effective date of permit: TMDL Monitoring and Assessment Plan.	3/2/12
Part VIII.B.3.c	6 MONTHS from receiving analyses from the lab: TMDL Monitoring Report.	TBD
Part VIII.B.4	30 MONTHS from effective date of permit: A Bacterial Pollution Control Plan (BPCP).	9/2/13

END OF REVISED TAILORED MS4 AR FORM  
CYCLE 3 PERMIT



**Resource Allocation Explanation  
Town of Mangonia Park  
9/11 to 10/12**

**The reason that the dollar figures differ from the previous report is that at that time it was anticipated that our road and drainage project would be underway. This did not occur and construction started in 12/12. Thus this report reflects \$ 60,000 spent during the report period, and the \$ 1,360,000.00 includes expenditures for the road/drainage construction plus the normal NPDES operating expenses**

## ADMIN/MP-1

### **SWMP Effectiveness Town of Mangonia Park**

Year 2011 to 2012 Report

In accordance with Part VI.B.2.:

- The ANNUAL REPORT shall include as an attachment an evaluation of the effectiveness of the permittee's SWMP in reducing pollutant loads discharged from the MS4. At a minimum, the permittee shall attach to the ANNUAL REPORT an explanation of how its SWMP is addressing each of the following:

1. Have stormwater pollutant loadings discharged from the MS4 decreased? Why or why not?

*The Town believes that the loads has decreased due to more diligent monitoring of businesses discharging to MS4, particularly as it relates to the Tarmac facility in the Town. The Town worked with Tarmac in the past to improve their on-site water quality systems, which they have now installed.*

2. Which components of the SWMP are working well and are effective in reducing stormwater pollutant loadings? Why are they effective?

*It is believed at this time, that the Town's most effective system is the exfiltration trench which was installed many years ago (and maintained approx.. yearly). The detention/retention of stormwater, particularly in smaller events, serves to capture pollutants particularly TSS.*

3. Which components of the SWMP are not working well and need to be revised to make them more effective in reducing stormwater pollutant loadings?

*The swale areas in Town's MS4 need to be re-graded to more effectively detain initial storm runoff.*

4. Which components of the SWMP do not contribute to reducing stormwater pollutant loads and could be revised or eliminated, and why?

*At this time, due to the small size of the MS4, there are no elements currently that could be eliminated. Revisions are also somewhat limited by the small size, and minimal components required/needed, at this time.*

5. Is the monitoring program providing data that can be used to assess the effectiveness of the SWMP in reducing stormwater pollutant loadings, assess the effectiveness of specific BMPs, and determine where stormwater retrofitting projects should be prioritized for implementation?

*The group monitoring program is on a watershed basis and is useful, however, due the small size of the Town and its small contribution to the overall watershed, direct correlation of a specific BMP in Town is not/may not be immediately noticeable in the test data results. The Town will continue to require installation of BMPs on all municipal projects, and all private projects that discharge storm water from their sites, thus a presumptive effectiveness is in place.*

The evaluation is expected to be subjective and is intended to lead the permittee to consider which programs deserve more or less attention.

**ORDINANCE NO. 2012-08**

AN ORDINANCE OF THE TOWN OF MANGONIA PARK, FLORIDA, AMENDING CHAPTER 13.5. LANDSCAPING. ARTICLE III. STANDARDS AND REQUIREMENTS. BY RE-ORGANIZING THIS ARTICLE INCLUDE TWO ENTIRELY NEW DIVISIONS TO BE ENTITLED "DIVISION 1. GENERALLY." WHICH SHALL BE COMPRISED OF THE EXISTING CODE IN THIS ARTICLE, AND "DIVISION 2. FERTILIZER USE." TO PROVIDE FOR NEW FERTILIZER USE AND APPLICATION REGULATIONS IN THE TOWN LANDSCAPING CODE AS REQUIRED BY STATE AND FEDERAL LAW; PROVIDING THAT EACH AND EVERY OTHER SECTION AND SUBSECTION OF CHAPTER 13.5, LANDSCAPING, SHALL REMAIN IN FULL FORCE AND EFFECT AS PREVIOUSLY ADOPTED; PROVIDING A CONFLICTS CLAUSE; A SEVERABILITY CLAUSE, AND AUTHORITY TO CODIFY; PROVIDING AN EFFECTIVE DATE; AND FOR OTHER PURPOSES.

**WHEREAS**, pursuant to Section 303(d) of the federal Clean Water Act and the resulting Florida Impaired Waters Rule (Chapter 62-303, Florida Administrative Code), the Florida Department of Environmental Protection (FDEP) has classified specific water bodies in Palm Beach County as "impaired" as a result of the presence of excessive nutrients; and

**WHEREAS**, Florida Statute, Section 403.9337 requires local governments located within the watershed of a water body or water segment that is listed as impaired by nutrients pursuant to Florida Statute, Section 403.067, adopt an ordinance for Florida-Friendly™ fertilizer use on urban landscapes; and

**WHEREAS**, the FDEP on the 2<sup>nd</sup> day of March 2011, issued its Palm Beach County Municipal Separate Storm Sewer System Permit No. FLS 000018-003 (hereinafter referred to as the "MS4 Permit") to forty-one (41) governmental entities including the Town of Mangonia Park; and

**WHEREAS**, the MS4 permit requires local governments within the watershed of a nutrient impaired water body to adopt FDEP's Model Ordinance for Florida Friendly™ Fertilizer Use on Urban Landscapes or an Ordinance that includes all the requirements set forth in the Model Ordinance; and

**WHEREAS**, Mangonia Park is located within the watershed of a nutrient impaired water body; and

**WHEREAS**, this Ordinance is part of a regulatory program to address nonpoint sources of nutrient pollution which is scientifically based, and economically and technically feasible; and

**WHEREAS**, this ordinance has been prepared based on information and input from the Department of Environmental Protection, the Department of Agriculture and Consumer Services, and the University of Florida Institute of Food and Agricultural Sciences; and

**WHEREAS**, the Town Council of the Town of Mangonia Park deems approval of this Ordinance to be in the best interests of the health, safety, and welfare of the residents and citizens of the Town of Mangonia Park and the public at large.

**NOW, THEREFORE, BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF MANGONIA PARK, FLORIDA, THAT:**

**Section 1:** Chapter 13.5. Landscaping. of the Code of Ordinances of the Town of Mangonia Park is hereby amended at Article III. Standards and Requirements. by re-organizing this Article to contain two new divisions to be entitled "Division 1. Generally." and "Division 2. Fertilizer Use"; providing that Article III. shall hereafter read as follows:

**Article III. Standards and Requirements.**

**Division I. Generally.**

[Secs. 13.5-31. — 13.5-39. Shall remain the same as previously adopted.]

**Secs. 13.5-40. — 13.5-49. Reserved.**

**Division 2. Fertilizer Use.**

**Sec. 13.5-50. Title**

**This Division shall be known as the "Fertilizer-Friendly Use Ordinance" which is required to be adopted by Section 403.9337, Florida Statutes, for any municipality located within the watershed of a water body or water segment that is listed as impaired**

by nutrients pursuant to Section 403.067, Florida Statutes. Other related regulations concerning water quality and discharge adopted in furtherance of the Town's NPDES MS4 permit are set forth at Chapter 26, Utilities, Article IV, Wastewater Utilities, of the Town Code of Ordinances.

**Sec. 13.5-51. Definitions.**

For this Division, the following terms shall have the meanings set forth in this section unless the context clearly indicates otherwise.

"Application" or "apply" means the actual physical deposition of fertilizer to turf or landscape plants.

"Applicator" means any person who applies fertilizer on turf and/or landscape plants in Town of Mangonia Park.

"Approved test" means a soil test from the University of Florida, government, or other commercial licensed laboratory that regularly performs soil testing and recommendations.

"Best management practices (BMP's)" means turf and landscape practices, or combination of practices, based on research, field-testing, and expert review, determined to be the most effective and practical site-specific means, including economic and technological considerations, for improving water quality, conserving water supplies and protecting natural resources.

"Code enforcement officer", "official", or "inspector" means any designated employee or agent of Town of Mangonia Park whose duty it is to enforce codes and ordinances enacted by the Town of Mangonia Park.

"Commercial fertilizer applicator" except as provided in Section 482.1562(9), Florida Statutes, means any person who applies fertilizer for payment or other consideration to property not owned by the person or firm applying the fertilizer or the employer of the applicators.

"Fertilizing", or "fertilization" means the act of applying fertilizer to turf, specialized turf, or landscape plants.

"Fertilizer" means any substance or mixture of substances that contains one or more recognized plant nutrients and promotes plant growth, or controls soil acidity or alkalinity, or provides other soil enrichment, or provides other corrective measures to the soil.

"Institutional applicator" means any person, other than a private, non-commercial or a commercial applicator (unless such definitions also apply under the circumstances), that applies fertilizer for the purpose of maintaining turf and/or landscape plants. Institutional applicators shall include, but shall not be limited to, owners, managers, or employees of public lands, schools, parks, religious institutions, utilities, industrial or business sites and any residential properties maintained in condominium and/or common ownership.

"Landscape plant" means any native or non-native tree, shrub, or groundcover (excluding turf).

"Pasture" means land managed for livestock grazing.

"Person" means any natural person, business, corporation, limited liability company, partnership, limited partnership, association, club, organization, and/or any group of people acting as an organized entity.

"Prohibited application period" means the time period during which a Flood Watch or Warning, a Tropical Storm Watch or Warning, or a Hurricane Watch or Warning is in effect for any portion of Town of Mangonia Park, issued by the National Weather Service, or if heavy rain (2 inches or more within a twenty-four (24) hour period) is likely.

"Saturated soil" means a soil in which the voids are filled with water. Saturation does not require flow. For the purposes of this Division, soils shall be considered saturated if standing water is present or the pressure of a person standing on the soil causes the release of free water.

"Slow-release", "controlled release", "timed release", "slowly-available", or "water insoluble nitrogen" means nitrogen in a form which delays its availability for vegetative uptake and use after application, or which extends its availability to the vegetation longer than a reference rapid or quick release product.

"Turf", "sod", or "lawn" means an area of grass-covered soil held together by the roots of the grass.

"Urban landscape" means pervious areas on residential, commercial, industrial, institutional, highway rights-of-way, or other nonagricultural lands that are planted with turf or landscape plants. For the purposes of this section, agriculture has the same meaning as provided in Section 570.02, Florida Statutes.

#### Sec. 13.5-52. Findings.

As a result of the Florida Department of Environmental Protection's determination that certain water bodies within Palm Beach County are impaired for excessive nutrient levels, the Town Council of the Town of Mangonia Park finds that the best management practices contained in the most recent edition of the "Florida-Friendly Best Management Practices for Protection of Water Resources by the Green Industries", are required and are necessary to implement within the Town as set forth in this Division.

#### Sec. 13.5-53. Purpose and intent.

This Division regulates the proper use of fertilizers by any applicator; requires proper training of commercial and institutional fertilizer applicators; establishes training and licensing requirements; establishes a prohibited application period; and specifies allowable fertilizer application rates and methods, fertilizer-free zones, and exemptions. This Division requires the use of best management practices to minimize negative environmental effects associated with excessive nutrients in our water bodies. These environmental effects have been observed in and on Palm Beach County's natural and constructed stormwater conveyances, rivers, creeks, canals, lakes, estuaries and other water bodies. Collectively, these water bodies are an asset important to the environmental, recreational, cultural and economic well-being of Palm Beach County residents and the health of the public. Overgrowth of algae and vegetation hinder the effectiveness of flood attenuation provided by natural and constructed stormwater conveyances. Regulation of nutrients, including both phosphorus and nitrogen contained in fertilizer, is anticipated to help improve and maintain water and habitat quality.



**Sec. 13.5-54. Applicability.**

This Division shall be applicable to and shall regulate any and all applicators of fertilizer and areas of application of fertilizer to urban landscapes within the area of the Town of Mangonia Park unless such application is specifically exempted by Sec. 13.5-60. of this Division. The regulations in this Division shall be prospective only, and shall not impair any existing contracts.

**Sec. 13.5-55. Timing of fertilizer applications.**

(a) No applicator shall apply fertilizers containing nitrogen and/or phosphorus to turf and/or landscape plants during the prohibited application period or to saturated soils.

(b) Fertilizer containing nitrogen and/or phosphorus shall not be applied before seeding or sodding a site, and shall not be applied for the first thirty (30) days after seeding or sodding, except when hydro-seeding for temporary or permanent erosion control in an emergency situation (wildfire, etc), or in accordance with the stormwater pollution prevent plan for that site.

**Sec. 13.5-56. Fertilizer free zones.**

Fertilizer shall not be applied within ten (10) feet, or three (3) feet if a deflector shield or drop spreader is used, of any pond, stream, water body, lake, canal, or wetland as defined by the Florida Department of Environmental Protection at Chapter 62-340, Florida Administrative Code, or from the top of a seawall or lake bulkhead. Newly planted turf or landscape plants may be fertilized in this zone only for a sixty (60) day period beginning thirty (30) days after planting if needed to allow the vegetation to become well established. Caution shall be used to prevent direct deposition of fertilizer into the water.

**Sec. 13.5-57. Fertilizer content and application rates.**

(a) Fertilizers applied to turf within the Town of Mangonia Park shall be applied in accordance with requirements and directions provided by Rule 5E-1.003(2), Florida Administrative Code, Labeling Requirements For Urban Turf Fertilizers. Under

Rule 5E-1.003(2), Florida Administrative Code, required application rate and frequency maximums, which vary by plant and turf types, are found on the labeled fertilizer bag or container.

(b) Nitrogen or phosphorus fertilizer shall not be applied to turf or landscape plants except as provided in section (1) above for turf, or in UF/IFAS recommendations for landscape plants, vegetable gardens, and fruit trees and shrubs, unless a soil or tissue deficiency has been verified by an approved test.

(c) Fertilizer used for sports turf at golf courses shall be applied in accordance with the recommendations in "Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses", published by the Florida Department of Environmental Protection, dated January 2007, as may be amended. Fertilizer used at Park or athletic fields shall be applied in accordance with Rule 5E-1.003(2), Florida Administrative Code.

**Sec. 13.5-58. Fertilizer application practices.**

(a) As provided in Sec. 13.5-56, of this Division, spreader deflector shields shall be used when fertilizing via rotary (broadcast) spreaders. Deflectors must be positioned such that fertilizer granules are deflected away from all impervious surfaces, fertilizer-free zones and water bodies, including wetlands. Any fertilizer applied, spilled, or deposited, either intentionally or accidentally, on any impervious surface shall be immediately and completely removed to the greatest extent practicable.

(b) Fertilizer released on an impervious surface must be immediately contained and either legally applied to turf or any other legal site, or returned to the original or other appropriate container.

(c) In no case shall fertilizer be washed, swept, or blown off impervious surfaces into stormwater drains, ditches, conveyances, or water bodies.

(d) Property owners and managers are encouraged to use an Integrated Pest Management (IPM) strategy as currently recommended by the University of Florida Cooperative Extension Service publications.

**Sec. 13.5-59. Management of grass clippings and vegetative matter.**

In no case shall grass clippings, vegetative material, and/or vegetative debris intentionally be washed, swept, or blown on to or into stormwater drains, ditches, conveyances, water bodies, wetlands, sidewalks or roadways. Any material that is accidentally so deposited shall be immediately removed to the maximum extent practicable.

**Sec. 13.5-60. Exemptions.**

The provisions set forth above in this Division shall not apply to the following:

(a) bona fide farm operations as defined in the Florida Right-to-Farm Act, Section 823.14, Florida Statutes;

(b) other properties not subject to or covered under the Florida Right-to-Farm Act that have pastures used for grazing livestock; and

(c) any lands used for bona fide scientific research, including, but not limited to, research on the effects of fertilizer use on urban stormwater, water quality, agronomics, or horticulture.

**Sec. 13.5-61. Training.**

(a) All commercial and institutional applicators of fertilizer within Palm Beach County shall abide by and successfully complete the six-hour training program in the "Florida-Friendly Best Management Practices for Protection of Water Resources by the Green Industries" offered by the Florida Department of Environmental Protection through the University of Florida/Palm Beach County Cooperative Extension Service "Florida-Friendly Landscapes" program or an approved equivalent program.

(b) Non-commercial and non-institutional applicators not otherwise required to be certified, such as private citizens on their own residential property, are encouraged to follow the recommendations of the University of Florida/IFAS "Florida-Friendly Landscape Program" and label instructions when applying fertilizers.

**Sec. 13.5-62. Licensing of commercial applicators.**

(a) All businesses applying fertilizer to turf or landscape plants (including, but not limited to, residential lawns, golf courses, commercial properties, and multi-family

and condominium properties) must ensure that the business owner or his/her designee holds the appropriate "Florida-Friendly Best Management Practices for Protection of Water Resources by the Green Industries" training certificate prior to the business owner obtaining a Local Business Tax Certificate. Owners for any category of occupation which may apply any fertilizer to Turf and/or Landscape Plants shall provide proof of completion of the program to the Town of Mangonia Park. It is the responsibility of the business owner to maintain the "Florida-Friendly Best Management Practices for Protection of Water Resources by the Green Industries" certificate to receive their Business Tax Receipt annually.

(b) After December 31, 2013, all commercial applicators of fertilizer within the Town of Mangonia Park shall have and carry in their possession at all times when applying fertilizer, evidence of certification by the Florida Department of Agriculture and Consumer Services as a Commercial Fertilizer Applicator per Rule 5E-14.117(18), Florida Administrative Code.

(c) All businesses applying fertilizer to turf and/or landscape plants (including, but not limited to, residential lawns, golf courses, commercial properties and multi-family and condominium properties) must ensure that at least one (1) employee has an appropriate "Florida-Friendly Best Management Practices for Protection of Water Resources by the Green Industries" training certificate prior to the business owner obtaining a Local Business Tax Certificate. Standard Business Tax Receipt (BTR) and transaction fees shall apply.

**Sec. 13.5-63. Enforcement; penalties; appeal.**

(a) Enforcement. The provisions of this Division shall be enforced by (1) the Town of Mangonia Park Special Magistrate pursuant to the authority granted by Section 162.01 et. seq., Florida Statutes, as may be amended, and Chapter 8 of the Town Code of Ordinances; or (2) the Town of Mangonia Park through its authority to enjoin and restrain any person violating the Town Code of Ordinances. The Town of Mangonia Park may pursue these or any other enforcement remedies available under the law.

(b) Penalties. Failure to comply with the requirement of this Division shall constitute an irreparable and irreversible violation of this Division and each new day the

violation exists it is considered a separate incident. Fines shall be determined by considering the factors set forth at Section 162.09, Florida Statutes, and shall not exceed the amounts listed in this section of the state law.

(c) Disposition of Penalty Funds. Funds generated by penalties imposed under this Division shall be used by the Town of Mangonia Park for the administration and enforcement of Section 403.9337, Florida Statutes, and the corresponding sections of this Division, and to further water conservation and nonpoint pollution prevention activities.

(d) Appeals. Appeals of administrative orders of the Special Magistrate shall be as provided under state law, which process is also set forth at Sec. 8-11. of the Town Code of Ordinances.

Secs. 13.5-64.— 13.5-70. Reserved.

**Section 2:** Each and every other section and subsection of Chapter 13.5. Landscaping, shall remain in full force and effect as previously enacted.

**Section 3:** All Ordinances or parts of Ordinances in conflict herewith be and the same are hereby repealed.

**Section 4:** Should any Section or provision of this Ordinance or any portion thereof, any paragraph, sentence or word be declared by a court of competent jurisdiction to be invalid, such decision shall not affect the validity of the remainder of this Ordinance.

**Section 5:** Specific authority is hereby granted to codify and incorporate this Ordinance into the existing Code of Ordinances of the Town of Mangonia Park.

**Section 6:** This Ordinance shall take effect immediately upon adoption.

**FIRST READING** this 16<sup>th</sup> day of October, 2012.

**SECOND AND FINAL READING** this 20<sup>th</sup> day of November, 2012.

**TOWN OF MANGONIA PARK**

**COUNCIL MEMBERS:**

**VOTE:**

**AYE**

**NAY**

Mayor William H. Albury, III

✓

\_\_\_\_\_

Vice Mayor Clarence R. McConnell

✓

\_\_\_\_\_

Addie L. Greene

✓

\_\_\_\_\_

Sarita C. Johnson

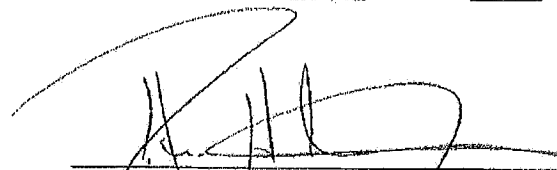
✓

\_\_\_\_\_

Mark K. Trueblood

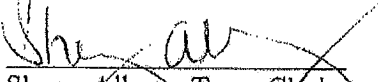
✓

\_\_\_\_\_

  
\_\_\_\_\_  
WILLIAM H. ALBURY, III, MAYOR

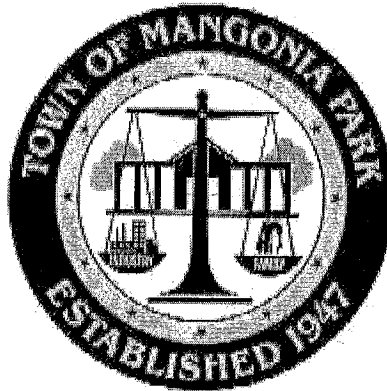
(SEAL)

ATTEST:

  
\_\_\_\_\_  
Sherry Albury, Town Clerk

**NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM  
(NPDES)**

**MUNICIPAL SEPARATE STORMWATER SEWER SYSTEM  
(MS4)**



**MANUAL OF STANDARD OPERATING PROCEDURES  
(SOP)**

PREPARED FOR  
TOWN OF MANGONIA PARK, FLORIDA

BY  
SOUTHERN DESIGN GROUP, INC.  
TOWN ENGINEER

## UPDATES

ORIGINAL: NOVEMBER 2011  
PREPARED BY: SOUTHERN DESIGN GROUP, INC.  
CIVIL ENGINEERS  
609 NORTH HEPBURN AVENUE, STE 204  
JUPITER, FLORIDA 33458  
561-743-0501  
sdginc@sdgcivil.com  
EB# 5142

### REVISIONS:

DATE:	SECTION	BY:
2/12/13	3 Street Sweeping	L. Van Cott, P.E.
4/5/12	10 Pro.&Reactive Illicit Inspects.	L. Van Cott, P.E.
4/5/12	15 Const. Site Inspec Form	L. Van Cott, P.E.



# TABLE OF CONTENTS

## WRITTEN PROCEDURES, PRACTICES, OR PLANS

(Note: If Reporting Forms are Required the Forms are at the End of that Specific Section or Procedure)

- i Title Page
- ii Update Page
- iii -iv Key to Permit Sections

### 1. SOP'S FOR STRUCTURAL CONTROL INSPECTIONS INSPECTIONS/MAINTENANCE

<u>System Plan Number</u>	<u>Description</u>
1	Dry Detention/Retention Systems
2	Exfiltration Trench Systems
3	Swale Systems
4	Wet Detention Systems
5	Pollution Control Devices
6	Storm Water Pump Stations
7	Outfall(s) from MS4
8	Conveyance Systems
9	Control Structure(s)
10	Pipes and Inlet Systems (Drainage Structures)

### 2. LITTER CONTROL PROGRAM

### 3. STREET SWEEPING PROGRAM

### 4. ROADWAY MAINTENANCE PRACTICES TO REDUCE POLLUTANTS

### 5. MAINTENANCE / EQUIPMENT YARD PRACTICES & INSPECTIONS

### 6. MUNICIPAL WASTE TSD FACILITY PROCEDURES

### 7. JOINT PUBLIC EDUCATION PROGRAM

### 8. PESTICIDE, HERBICIDE & FERTILIZER MINIMIZATION PROCEDURES

9. ILLICITS PROACTIVE INSPECTION PROGRAM
10. REACTIVE INSPECTION PROGRAM
11. SPILL PREVENTION & RESPONSE PROCEDURES
12. PLAN TO ELIMINATE WASTEWATER CONTAMINATION  
IN STORMWATER
13. HIGH RISK FACILITIES INSPECTION PROGRAM
14. SITE PLAN REVIEW PROCEDURES
15. CONSTRUCTION SITE INSPECTIONS AND INSPECTION  
FORM
16. JOINT TRAINING PROGRAM
17. APPENDICES

**KEY TO PERMIT SECTIONS**  
**Written Procedures, Practices, or Plans**  
**(2011-2016 NPDES PERMIT)**

The third term MS4 NPDES permit includes requirements for a number of written procedures, practices and/or plans. Below is a list with the associated permit program number noted in parentheses.

- SOPs for **Structural Control Inspections/Maintenance** (*Program 1*)
  - Dry Detention/Retention Systems
  - Exfiltration Trench
  - Swales
  - Conveyance Ditches/Canals
  - Wet Detention Systems
  - Pollution Control Devices
  - Stormwater Pump Stations
  - Major Stormwater Outfalls
  - Control Structures
  - Pipes/Culverts and Inlets/Manholes
- Program for **Litter Control** (for public streets, roads & highways) (*Program 3*)
- Program for **Street Sweeping** (*Program 3*)
- Practices for **reducing pollutants from areas associated with road repair & maintenance** (*Program 3*)
- Practices for minimizing pollutants from **MS4-owned or operated equipment yards and maintenance shops** (*Program 3*)
- Procedures for **inspections of and pollution control measures used at:** (*Program 5*)
  - Operating municipal landfills
  - Municipal waste transfer stations
  - Municipal waste fleet maintenance facilities
  - Any other municipal waste TSD facilities
- Program(s) for **public education** (*Programs 6, 7e, 7f*)
  - Reducing use of PHFs
  - Promote reporting of suspected illicit discharges and improper disposal (to the MS4)
  - Encourage proper use and disposal of HHHW

- Procedures for **minimizing the use of PHFs** on public property & **how the materials are applied, stored and mixed.** *(Program 6)*
- Procedures for **proactive inspection program for identifying/eliminating illicit discharges, connection, or dumping** (to MS4) *(Program 7c)*
- Procedures for **reactive investigations for identifying/eliminating illicit discharges, connection, or dumping** (to MS4) *(Program 7c)*
- Plan for training on **identifying and reporting conditions that may indicate illicit discharge/connection/ dumping** to MS4 (appropriate personnel and contractors) *(Program 7c)*
- Procedures for **spill prevention/response** *(Program 7c)*
- Plan for **training on spill prevention/response** *(Program 7c)*
- Procedures to **reduce or eliminate sanitary wastewater contamination** into the MS4 *(Program 7g)*
- Procedures for **proactive high risk facility inspections** in commercial and industrial areas discharging to the MS4 *(Program 8a)*
- Procedures for **pre-construction site plan reviews, notifying all new development/redevelopment applicants** of need to obtain all required stormwater permits, and for **verifying that ERP and CGP have been obtained** before issuing any local grading or clearing permits/approvals *(Program 9a)*
- Procedure for **inspection of construction sites** (both MS4 and private) discharging to the MS4 *(Program 9b)*
- Plan for training on **stormwater management, erosion and sedimentation controls** (construction site plan reviewers, site inspectors and site operators) *(Program 9c)*

DRAINAGE STRUCTURE INSPECTION REPORT (DSIR)		
FORM DSIR-=TA		
ID # / DS #	DATE	INSPECTORS

CATCH BASIN OR MANHOLE? CB or MH

GRATE CLEAN *	YES	NO
---------------	-----	----

CB CLEAN	YES	NO
----------	-----	----

OIL SLICKS	YES	NO
------------	-----	----

STRUCTURE CRACKS	YES	NO
------------------	-----	----

INLET/OUTLET PIPES LEAKS	YES	NO
--------------------------	-----	----

SEDIMENT IN BOTTOM	YES	NO
--------------------	-----	----

POLL. CONT. DEVICE PRESENT	YES	NO
----------------------------	-----	----

VEGETATION PRESENT	YES	NO
--------------------	-----	----

DESCRIBE:		
-----------	--	--

ODOR PRESENT	YES	NO
--------------	-----	----

DESCRIBE:		
-----------	--	--

FLOATABLES	YES	NO
------------	-----	----

PHOTO TAKEN	YES	NO
-------------	-----	----

\* N/A for MH with rim & lid

Recommendations:

---



---



---



---



---

---

---

---

## **SOP SECTION 1-STRUCTURAL CONTROLS**

### **System Plan 1**

#### **Dry Detention and/or Retention System – Structural Control Inspection Standard Operational/Maintenance/Documentation Protocol**

**(THE TOWN CURRENTLY DOES NOT HAVE THESE FACILITIES-SECTION INLCUED ONLY FOR FUTURE SHOULD FACILITY  
BE INSTALLED)**

There are \_\_0\_\_ dry detention systems and \_\_0\_\_ dry retention systems that are part of Town's MS4; they are located as shown on the following map (add to Appendices if needed).

#### **Inspections:**

Established dry detention/retention systems are inspected once every three years, using the following Structural Control Inspection Form. In addition, they are observed for problems that may impact their functionality whenever they are mowed.

New dry detention/retention systems are inspected annually for the first two years of operation.

If chronic problems are identified with a dry detention/retention system, it is inspected annually until the problem is resolved (two consecutive annual inspections without an issue).

Inspections are conducted close to the storage recovery time of that dry detention/retention system (generally 72 hours after a significant rainfall event) to verify that the system still functions as intended.

The anticipated inspection schedule follows.

To be defined if facilities are installed

#### **Maintenance:**

There are several maintenance activities that may be associated with a dry detention/retention system. The appropriate activity is chosen to correspond to the reported condition. The following activities may be required:

1. Mow grass.
2. Remove trash and debris from system and dispose of properly.
3. Remove accumulated sediment from the inflow pipe and dispose of properly.
4. Eliminate any mosquito breeding habitats.
5. Repair any undercutting or piping around inflow structure.

6. Repair and re-establish any eroded areas on the bottom, side slopes, and/or near inflow structure.
7. Scrape, disc, or otherwise aerate the bottom of the detention/retention area to restore the infiltration capacity. Include soil testing, as needed, to verify that the infiltration capacity has been restored. Re-established the surface to its final condition (seed, sod, etc...)

**Documentation:**

The documentation for the inspection and maintenance activities related to the dry detention/retention systems is inspection form at end of this section.



**Dry Detention/Retention System – Structural Control Inspection**  
**Mangonia Park-Town Administration**  
**Form DDRS-TA (2011)**

Facility ID: \_\_\_\_\_

Date: \_\_\_\_\_

Inspector(s) \_\_\_\_\_

Inspection conducted \_\_\_\_\_ days/hours after significant rainfall event.

**FUNCTION:**

Wet bottom?      YES      NO

Dead or dying vegetation on bottom?      YES      NO

Any signs of accumulated sediment?      YES      NO

If YES, report to supervisor for further investigation or schedule for maintenance.

---

**EROSION:**

Vegetation on bottom and side slopes failing?      YES      NO

Any signs of erosion?      YES      NO

If YES, describe and schedule for maintenance: \_\_\_\_\_

---

**INFLOW STRUCTURE:**

Any signs of erosion?      YES      NO

Any signs of structure settling?      YES      NO

Any signs of physical damage?      YES      NO

Any signs of accumulated sediment?      YES      NO

If YES to any of the above, schedule the structure for maintenance.

Any debris present?      YES      NO

If YES, remove debris or schedule for maintenance.

---

**OUTFLOW STRUCTURE (for Dry Detention systems only):**

Any signs of erosion?      YES      NO

Any signs of structure settling?      YES      NO

Any signs of physical damage?      YES      NO

Any signs of accumulated sediment?      YES      NO

If YES to any of the above, schedule the structure for maintenance.

Any debris present?      YES      NO

If YES, remove debris or schedule for maintenance.

---

**Dry Detention/Retention System – Structural Control Inspection**  
**Mangonia Park-Town Administration**  
**Form DDRS-TA (2011)**

**GENERAL:**

Any signs of "excessive petroleum hydrocarbon contamination"?      YES      NO

Any indications of illicit discharge or illegal dumping?      YES      NO

If YES, address issue as required.

Follow up

notes/Commentary: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Actions

Taken: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SOP SECTION 1-STRUCTURAL CONTROLS**  
**System Plan 2**  
**Exfiltration Trench – Structural Control Inspection**  
**Standard Operational/Maintenance/Documentation Protocol**

There are 1360 linear feet of exfiltration trench that are part of our MS4; the systems are located as shown on the following map.

**Inspections:**

Established exfiltration trench is inspected once every three years, using the following Structural Control Inspection Form or detailed documentation report from Contractor.

New exfiltration trench is inspected annually for the first two years of operation.

If chronic problems are identified with a run of exfiltration trench, it is inspected annually until the problem is resolved (two consecutive annual inspections without an issue).

The inspection to check for proper function is conducted close to the recovery time of that exfiltration trench system (generally 72 hours after a significant rainfall event) to verify that the system still functions as intended. The inspection for sediment accumulation in the system is conducted in dry weather.

The anticipated inspection schedule follows:

- 1) Exfiltration system in NW Industrial area has been in existence for many years and will be inspected every three (3) years as noted above. The system shall be inspected and cleaned if any flooding for a period of time greater than 6 hours occurs. These system outfalls through control structure MPG 001.

**Maintenance:**

There are several maintenance activities that may be associated with exfiltration trench. The appropriate activity is chosen to correspond to the reported condition. The following activities may be required and shall be documented if needed:

1. Remove sediment in pipe(s) and/or upstream and downstream structures. This may be done by flushing or vacuuming.
2. Remove trash and debris from the system and dispose of properly.
3. Total rehabilitation (removal and replacement) of the exfiltration trench system may be required when the system fails to function at the design capacity.

**Documentation:**

The documentation for the inspection and maintenance activities related to exfiltration trench will be either form at end of this section or Contractor's report along with receipt.

**Exfiltration Trench – Structural Control Inspection**  
**Mangonia Park-Town Administration**  
**FORM EXF-TA (2011)**

Facility/Segment ID: \_\_\_\_\_

Date: \_\_\_\_\_

Inspectors: \_\_\_\_\_

Inspection conducted \_\_\_\_\_ days/hours after significant rainfall event.

**FUNCTION:**

Standing water in observation well, inspection port, or inlet?      YES      NO

Standing water above inlet grates greater than 6 hours?      YES      NO

If YES, report to supervisor for further investigation or schedule for maintenance.

---

**GENERAL:**

Sediment amount less than one foot below pipe invert in up or downstream structure?      YES      NO

Sediment visible in pipe?      YES      NO

If YES, describe and schedule for maintenance:

---

Any indications of illicit discharge or illegal dumping?      YES      NO

If YES, perform proactive Illicit discharge inspection in area in accordance with Section 9 and describe and report to supervisor for proper response:

---

Actions Taken/Commentary:

---

**SOP SECTION 1-STRUCTURAL CONTROLS**  
**System Plan 3**  
**Swale System – Structural Control Inspection**  
**Standard Operational/Maintenance/Documentation Protocol**

There are 4800 linear feet of swales that are part of Town's MS4; the swale segments are located as shown on the map (Reference Appendices).

**Inspections:**

Established swales are inspected once every three years, using the following Form at end of this section. In addition, they are observed for problems that may impact their functionality whenever they are mowed/maintained.

New swales are inspected annually for the first two years of operation.

If chronic problems are identified with a swale, it is inspected annually until the problem is resolved (two consecutive annual inspections without an issue).

Inspections are conducted close to the recovery time of that swale (generally 72 hours after a significant rainfall event) to verify that the system still functions as intended.

**Maintenance:**

There are several maintenance activities that may be associated with swales. The appropriate activity is chosen to correspond to the reported condition. The following activities may be required:

1. Mow grass.
2. Remove trash and debris from system and dispose of properly.
3. Remove accumulated sediment from the inflow and/or outflow pipe and dispose of properly.
4. Eliminate any mosquito breeding habitats.
5. Repair any undercutting or piping around inflow and/or outflow structure.
6. Repair and re-establish any eroded areas on the bottom, side slopes, and/or near any structure.
7. Scrape, disc, or otherwise aerate the bottom of the swale to restore the infiltration capacity. Include soil testing, if needed, to verify that the infiltration capacity has been restored. Re-establish the surface to its final condition (seed, sod, etc...)

**Documentation:**

The documentation for the inspection and maintenance activities related to swales is outlined on form at end of this section.

**Grass Swale – Structural Control Inspection**  
**Mangonia Park Administration**  
**FORM SW-TA (2011)**

Facility/Segment ID: \_\_\_\_\_

Date: \_\_\_\_\_

Inspector(s) \_\_\_\_\_

Inspection conducted \_\_\_\_\_ days/hours after significant rainfall event.

**FUNCTION:**

Wet bottom?                      YES      NO

Aquatic vegetation present?      YES      NO

Dead or dying grass on bottom?      YES      NO

Sediment accumulation?      YES      NO

Grading issue?                      YES      NO

If YES, report to supervisor for further investigation or schedule for maintenance.

---

**EROSION:**

Vegetation on bottom or side slopes failing?      YES      NO

Any signs of erosion?                      YES      NO

If YES, describe and schedule for maintenance: \_\_\_\_\_

---

**GENERAL:**

Any signs of damage from parking in swale?      YES      NO

Any fences or other objects that could obstruct flow into/through the swale?      YES      NO

If YES, schedule for maintenance.

Any indications of illicit discharge or illegal dumping?      YES      NO

If YES, describe and report to supervisor for proper response: \_\_\_\_\_

---

Follow Up/Commentary:

---

---

**SOP SECTION 1-STRUCTURAL CONTROLS**  
**System plan 4**  
**Wet Detention System – Structural Control Inspection**  
**Standard Operational/Maintenance/Documentation Protocol**

**(THE TOWN CURRENTLY DOES NOT HAVE THESE FACILITIES-SECTION INLCUDED ONLY FOR FUTURE  
SHOULD FACILITY BE INSTALLED)**

There are 0 wet detention systems that are part of our MS4; they are located as shown on the following map.

**Inspections:**

Established wet detention systems are inspected once every three years, using the following Structural Control Inspection Form. In addition, they are observed for problems that may impact their functionality whenever the side slopes are maintained (mowed, trimmed, etc.)

New wet detention systems are inspected annually for the first two years of operation.

If chronic problems are identified with a wet detention system, it is inspected annually until the problem is resolved (two consecutive annual inspections without an issue).

Inspections are conducted close to the storage recovery time of that wet detention system (generally 72 hours after a significant rainfall event) to verify that the system still functions as intended.

**Maintenance:**

There are several maintenance activities that may be associated with a wet detention system. The appropriate activity will be chosen to correspond to the reported condition. The following activities may be required:

1. Maintain and re-establish any eroded areas on side slopes.
2. Repair any undercutting or piping around inflow and/or outflow structure(s).
3. Remove trash and debris from system and dispose of properly.
4. Remove accumulated sediment from the inflow and/or outflow pipe and dispose of properly.
5. Remove any trees or shrubs that may have become established near the discharge structure/pipe.
6. Remove exotic vegetation from the littoral zone (if applicable) and replant as needed.
7. Remove accumulated sediment from basin to restore design storage volume.

**Documentation:**

The documentation for the inspection and maintenance activities related to the wet detention systems is on form at end of this section.



**Wet Detention System – Structural Control Inspection**  
**Mangonia Park-Town Administration**  
**Form WDS-TA (2011)**

Facility ID: \_\_\_\_\_

Date: \_\_\_\_\_

Inspector(s) \_\_\_\_\_

Inspection conducted \_\_\_\_\_ days/hours after significant rainfall event.

**FUNCTION:**

Pond/Lake level above control elevation longer than recovery time (see facility inventory)?      YES      NO

If YES, report to supervisor for further investigation or schedule for maintenance.

---

**EROSION:**

Vegetation on side slopes failing?      YES      NO

Any signs of erosion?      YES      NO

If YES, describe and schedule for maintenance: \_\_\_\_\_

---

**INFLOW STRUCTURE:**

Any signs of erosion?      YES      NO

Any signs of structure settling?      YES      NO

Any signs of physical damage?      YES      NO

Any signs of accumulated sediment?      YES      NO

If YES to any of the above, schedule the structure for maintenance.

Any debris present?      YES      NO

If YES, remove debris or schedule for maintenance.

---

**OUTFLOW STRUCTURE:**

Any signs of erosion?      YES      NO

Any signs of structure settling?      YES      NO

Any signs of physical damage?      YES      NO

Any signs of accumulated sediment?      YES      NO

If YES to any of the above, schedule the structure for maintenance.

Any debris present?      YES      NO

If YES, remove debris or schedule for maintenance.

---

**GENERAL:**

Any indications of illicit discharge or illegal dumping?      YES      NO

If YES, describe and report to supervisor for proper response: \_\_\_\_\_

Follow Up/ Commentary:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**SOP SECTION 1-STRUCTURAL CONTROLS**  
**System Plan 5**  
**Pollution Control Device – Structural Control Inspection**  
**Standard Operational/Maintenance/Documentation Protocol**

**(THE TOWN CURRENTLY DOES NOT HAVE THESE FACILITIES-SECTION INLCUED ONLY FOR FUTURE SHOULD FACILITY  
BE INSTALLED)**

There are 0 pollution control devices (PCDs) that are part of our MS4; they are located as shown on the following map.

The purpose of PCDs is the removal of debris, sediment, oils, and/or other materials from the storm water stream before it discharges into a receiving water body. Thus, the more material removed by these devices, the better. Frequent inspection and maintenance is the key to the proper function of these units.

**Inspections:**

PCDs are inspected quarterly, unless historic operations indicate that a less or more frequent inspection schedule is needed for particular PCDs. Inspections are conducted in accordance with the PCD manufacturer's recommendations. In general, inspections will include the items listed on the following Structural Control Inspection Form.

List of PCDs and schedule will be developed at later if PCDs are installed in MS4.

**Maintenance:**

There are several maintenance activities that may be associated with PCDs. The appropriate activity is chosen to correspond to the reported condition. The following activities may be required:

1. Remove trash and debris from system and dispose of properly.
2. Remove accumulated vegetative matter and dispose of properly.
3. Remove accumulated sediment and dispose of properly.
4. Replace absorbent materials as required.
5. Repair damage to structure, inflow or outflow pipes.

**Documentation:**

The documentation for the inspection and maintenance activities related to pollution control devices in draft form is at end of this section.

**PCD – Structural Control Inspection  
Mangonia Park-Town Administration  
Form PCD-TA (2011)**

Facility ID: \_\_\_\_\_

Date: \_\_\_\_\_

Inspector(s): \_\_\_\_\_

**FUNCTION:**

Sediment accumulation?                      YES      NO

Debris accumulation?                        YES      NO

Absorbent materials need replacement?   YES      NO

If YES, report to supervisor for further investigation or schedule for maintenance.

---

**GENERAL:**

Any indications of illicit discharge or illegal dumping?                      YES      NO

If YES, describe and report to supervisor for proper response: \_\_\_\_\_

Inlets/Outlets damaged or obstructed?      YES      NO

If YES, schedule for maintenance.

Follow Up/Commentary:

---

---

---

---

**SOP SECTION 1 –STRUCTURAL CONTROLS**  
**System Plan 6**  
**Storm Water Pump Station – Structural Control Inspection**  
**Standard Operational/Maintenance/Documentation Protocol**

**(THE TOWN CURRENTLY DOES NOT HAVE THESE FACILITIES-SECTION INLCUDED ONLY FOR FUTURE SHOULD FACILITY  
BE INSTALLED)**

There are 0 storm water pump stations (SWPSs) that are part of our MS4; they are located as shown on the following map.

**Inspections:**

SWPSs are inspected semi-annually, or more frequently if historic operations indicate that it is needed for a particular SWPS. Because these structures are each unique, their inspection protocol is specific to each structure.

At such time as a pump station is, installed protocols and schedules will be developed.

**Maintenance:**

There are several maintenance activities that may be associated with SWPSs. The appropriate activity is chosen to correspond to the reported condition. The following activities may be required:

1. Remove trash and debris and dispose of properly.
2. Remove accumulated vegetative matter and dispose of properly.
3. Remove accumulated sediment and dispose of properly.
4. Maintain pump in accordance with pump manufacturer's recommendations.

**Documentation:**

The documentation for the inspection and maintenance activities related to storm water pump stations will be developed if a pump station is installed in MS4.

**Storm Water Pump Station # \_\_\_\_\_**  
**Inspection Procedure/Checklist/Form**  
**Mangonia Park-Town Administration**  
**Form SWPS-TA (2011)**

Facility ID: \_\_\_\_\_

Date: \_\_\_\_\_

Inspector(s): \_\_\_\_\_

**FUNCTION:**

**Develop one for each unique pump station]**

**YES**

**NO**

---

**GENERAL:**

Any indications of illicit discharge or illegal dumping?

*YES*

*NO*

If *YES*, describe and report to supervisor for proper response: \_\_\_\_\_

Debris accumulation upstream or downstream of structure?

*YES*

*NO*

Sediment accumulation upstream or downstream of structure?

*YES*

*NO*

Headwall in need of repair/replacement? *YES* *NO*

If *YES*, schedule for maintenance.

**Major Stormwater Outfalls – Structural Control Inspection  
Standard Operational/Maintenance/Documentation Protocol  
System Plan 7**

There is 1 major storm water outfall (MSWOs) that are part of the Town's MS4. A MSWO is defined as:

- an outfall pipe larger than 36-inch inside diameter (or its equivalent), OR
- discharge from a single conveyance other than a pipe that serves a drainage area of 50 acres or more, OR
- an outfall pipe larger than 12-inches inside diameter (or its equivalent) that serves a drainage area containing industrial land uses, OR
- discharge from a single conveyance other than a pipe that serves a drainage area of 2 acres or more than include industrial land uses.

The MSOWs within our MS4 are located on the map 5 in the appendices.

**Inspections:**

MSWOs are inspected annually, or more frequently if historic operations indicate that it is needed for a particular MSWO. Inspections are conducted in accordance with the following Structural Control Inspection Form.

The anticipated inspection schedule will be yearly or as needed.

**Maintenance:**

There are several maintenance activities that may be associated with MSWOs. The appropriate activity is chosen to correspond to the reported condition. The following activities may be required:

1. Remove trash and debris and dispose of properly.
2. Remove accumulated vegetative matter and dispose of properly.
3. Remove accumulated sediment and dispose of properly.
4. Maintain earthen bank adjacent to the discharge pipe or headwall.
5. Maintain the headwall at the outfall, if applicable.
6. Repair/replace pipe if needed.

**Documentation:**

The documentation for the inspection and maintenance activities related to major storm water outfalls is the form at the end of this section.

**Major Storm Water Outfalls – Structural Control Inspection**  
**Mangonia Park-Town Administration**  
**Form MSW-TA (2011)**

Facility ID: \_\_\_\_\_

Date: \_\_\_\_\_

Inspector(s): \_\_\_\_\_

**FUNCTION:**

Debris or sediment accumulation in pipe?                      YES      NO

Barnacle accumulation in pipe?                                      YES      NO

Sediment accumulation in receiving water?                      YES      NO

Pipe in need of repair/replacement ?                              YES      NO

If YES, report to supervisor for further investigation or schedule for maintenance.

---

**GENERAL:**

Any indications of illicit discharge or illegal dumping?                      YES      NO

If YES, describe and report to supervisor for proper response: \_\_\_\_\_

Signs of erosion on bank near outfall?                              YES      NO

Rip-rap in need of maintenance?                                      YES      NO

Headwall in need of repair/replacement?                              YES      NO

If YES, schedule for maintenance.

Follow Up/Commentary:

---

---

---

---

---

---



**SOP SECTION 1**  
**System Plan 8**  
**Conveyance (Ditch & Canal) System – Structural Control Inspection**  
**Standard Operational/Maintenance/Documentation Protocol**

There are no conveyance facilities within the MS4 and due to the complete build out of the Town with respect to ditches or canals, none are anticipated in the future.

This section will be fully developed if, in the future, an MS4, canal, ditch, etc. is installed

Balance of this section intentionally left Blank

**SOP SECTION 1-STRUCTURAL CONTROLS**  
**System Plan 9**  
**Control Structures – Structural Control Inspection**  
**Standard Operational/Maintenance/Documentation Protocol**

Control structures (weirs, orifices, gates, etc.) that are associated with other structural controls, such as wet and dry retention and detention areas, exfiltration trench, and swales, are inspected along with the structural control system of which they are a part.

Control structures that associated with pipe networks and/or canals (weirs, operable gates, etc.) are inspected as stand-alone facilities. There is 1 stand-alone control structures that in Town's MS4. They are located on the map in the appendices

**Inspections:**

Stand-alone control structures are inspected annually along with the outfall inspection (System Plan 7) or more frequently if historic operations indicate that it is needed for a particular control structure. Because these structures are each unique, their inspection protocol is specific to each structure.

The anticipated inspection schedule is as noted above.

**Maintenance:**

There are several maintenance activities that may be associated with control structures. Because these structures are each unique, their maintenance needs are specific to each structure. The appropriate activity is chosen to correspond to the reported condition or required action. The following activities may be required:

1. Remove trash and debris and dispose of properly.
2. Remove accumulated vegetative matter and dispose of properly.
3. Remove accumulated sediment and dispose of properly.
4. Remove barnacles and/or other marine life and dispose of properly.
5. Repair/replace the mechanical parts, if applicable.
6. Repair/replace structure, if needed.

**Documentation:**

The documentation for the inspection and maintenance activities related to control structures is the form at the end of this section.



Control Structure # \_\_\_\_\_  
Inspection Procedure/Checklist/Form  
Mangonia Park Administration  
Form CS-TA (2011)

**Blank form to be used as format if additional control structures are added to MS4**

Facility ID: \_\_\_\_\_

Date: \_\_\_\_\_

Inspector(s): \_\_\_\_\_

**FUNCTION:**

Controlling (area description) _____	YES	NO	
--------------------------------------	-----	----	--

---

**GENERAL:**

Any indications of illicit discharge or illegal dumping?	YES	NO	
--	-----	----	--

If YES, describe and report to supervisor for proper response: \_\_\_\_\_

Debris accumulation upstream or downstream of structure?	YES	NO	
--	-----	----	--

Sediment accumulation upstream or downstream of structure?	YES	NO	
--	-----	----	--

Weir structurally sound	YES	NO	
-------------------------	-----	----	--

If YES, schedule for maintenance.

Follow Up/Commentary:

---

---

---

---

**OP SECTION 1**  
**Plan System 10**  
**Pipes/Culverts and Inlets/Manholes – Structural Control Inspection**  
**Standard Operational/Maintenance/Documentation Protocol**

There are 0 linear feet of pipes/culvert that are part of Towns MS4 at this time. All piping is exfiltration trench or outfall, which is covered under other Section 1 areas. The locations are shown on the as-built map in the appendices. This value and the locations on the map do NOT include exfiltration trench, which is catalogued separately. Each pipe segment (between two structures or between a structure and an outfall) has a unique identification. This information is stored on hardcopy maps of the system.

There are 12 inlets/catch basins/manholes that are part of our MS4. Their locations are also shown on the asbuilt map in the appendices. Each structure has a unique identification. This information is stored on hardcopy maps of the system.

**Inspections:**

At least 10% of the total number of linear feet of pipe/culvert is inspected each year. The inlets, catch basins, and manholes associated with a pipe/culvert system are inspected concurrently. Visual inspections are conducted in accordance with the checklist/procedure that follows. Inspection forms are not used. The GIS or hard copy maps are coded to identify the last inspection date for each facility. If warranted, as a result of the visual inspection, a work order for maintenance, repair, or a more detailed pipe or structure investigation is generated. A more detailed investigation may include televising the pipe, or using mirrors or other devices, as appropriate, to determine the condition of the pipe/culvert. As a result of the more detailed investigation, a work order for maintenance or repair may be generated.

**Maintenance:**

There are several maintenance activities that may be associated with storm water networks . The appropriate activity is chosen to correspond to the reported condition. The following activities may be required and are specifically related to drainage structures:

1. Remove trash and debris and dispose of properly.
2. Remove accumulated vegetative matter and dispose of properly.
3. Remove accumulated sediment and dispose of properly.
4. Remove barnacles and/or other marine life and dispose of properly.
5. Repair/replace pipe or structure, or grate/lid if needed.

**Documentation:**

The documentation form for the inspection and maintenance activities related to the pipes/culverts and inlets/manholes are at end of this section.

<b>DRAINAGE STRUCTURE INSPECTION REPORT</b>		
<b>FORM DSIR-TA</b>		
<b>ID # / DS #</b>	<b>DATE</b>	<b>INSPECTORS</b>

**CATCH BASIN OR MANHOLE? CB or MH**

<b>GRATE CLEAN *</b>	<b>YES</b>	<b>NO</b>
----------------------	------------	-----------

<b>CB CLEAN</b>	<b>YES</b>	<b>NO</b>
-----------------	------------	-----------

<b>OIL SLICKS</b>	<b>YES</b>	<b>NO</b>
-------------------	------------	-----------

<b>STRUCTURE CRACKS</b>	<b>YES</b>	<b>NO</b>
-------------------------	------------	-----------

<b>INLET/OUTLET PIPES LEAKS</b>	<b>YES</b>	<b>NO</b>
---------------------------------	------------	-----------

<b>SEDIMENT IN BOTTOM</b>	<b>YES</b>	<b>NO</b>
---------------------------	------------	-----------

<b>POLL. CONT. DEVICE PRESENT</b>	<b>YES</b>	<b>NO</b>
-----------------------------------	------------	-----------

<b>VEGETATION PRESENT</b>	<b>YES</b>	<b>NO</b>
---------------------------	------------	-----------

<b>DESCRIBE:</b>
------------------

<b>ODOR PRESENT</b>	<b>YES</b>	<b>NO</b>
---------------------	------------	-----------

<b>DESCRIBE:</b>
------------------

<b>FLOATABLES</b>	<b>YES</b>	<b>NO</b>
-------------------	------------	-----------

<b>PHOTO TAKEN</b>	<b>YES</b>	<b>NO</b>
--------------------	------------	-----------

**\* N/A for MH with rim & lid**

<b>Recommendations:</b>

## **SOP SECTION 2 LITTER CONTROL PROGRAM**

The Litter Control Program for Town of Mangonia Park TMP) consists of: 2400 LF of litter collection along public streets, roadways, and rights-of-way within our jurisdiction. A map of litter collection areas maintained by TMP is attached in the Appendices (Reference Swale Map).

The frequency of collection is:

Daily or weekly as needed in MS4 and is performed by Town Personnel of the Public Works Department.

Documentation of volume of litter collected is kept in a log book by date and is summarized for reporting each year and the form (Log) is at the end of this section.

All collected litter is properly disposed of at Town Hall dumpsters or other Town dumpsters and picked up by the contracted waste hauler for the Town.

At this time there is not an "Adopt-a-Road" program in place, however in future should program be developed the Town shall develop a form or use the form for this section and clearly note the Adopt -A Road Program.

TMP Code Enforcement Dept. will issue notices of violation to property owners who do not comply with the code on their private property that is adjacent to any Public roadway.

[illegible]



**SOP SECTION 3**  
**Street Sweeping Program**

A map of the street sweeping routes is not attached. 0 LF of public roadway are in the program because there are no with curb in gutter in the MS4.

The frequency of sweeping is N/A at the time of the development of the SOPs. If in the future, curbed roadways are in the MS4 the following will be adhered to.

Frequency: Bi-monthly or earlier if needed

Map to be developed in future.

Sweeping will be performed by a contractor to the Town.

Documentation of volume of street sweeping collection will be requested from contractor and included in SOP records manual.

An estimate of the total phosphorus and total nitrogen collected by the street sweeping is performed based on the Florida Storm water Association's determinations of street sweeping removal rates project which follows in this section. For this calculation, the land use of the area swept and the amount of material collected is needed. The log below is used for recording this information based on data supplied by the contractor Below is an example. At the end of this section is a multiple entry form.

Street Sweeping Collection Log		
Date	Amount Collected (cf or lbs)	Land Use of Area Swept

All street sweeping collection is properly disposed of in accordance with DEP's "Guidance For The Management Of Street Sweepings, Catch Basin Sediments and Storm water System Sediments."

## Florida Storm water Association Street Sweeping Nutrient Removal Rates

Based on the May 31, 2011 Final Report "Quantifying Nutrient Loads Associated with Urban Particulate Matter (PM), and Biogenic/Litter Recovery Through Current MS4 Source Control and Maintenance Practices" (Table 8 in the report - Page 41). The following information is extracted:

Median Value of Nutrient Removal Per Unit of Material Collected	
Total Phosphorus	Total Nitrogen
0.000361	0.000563

### Example Calculations:

In fiscal year 2010, Palm Beach County collected 1,915 cubic yards of material with the street sweeping program. Assuming the average density of the street sweeping material is 750 pounds per cubic yard,\* then 1,436,250 pounds were collected. Using the table above, the total phosphorus removed would be estimated at  $(1,436,250)(0.000361) = 518$  pounds. The total nitrogen removed would be estimated at  $(1,436,250)(0.000563) = 809$  pounds.

Last year the Town of Jupiter collected 35.8 dry tons (71,600 pounds) of street sweeping material from residential areas. The estimated nutrient removal rates for total phosphorous and total nitrogen would be  $(71,600 \text{ pounds})(0.000361) = 26$  pounds, and  $(71,600)(0.000563) = 40$  pounds, respectively.

Alternatively, the State has provided a spreadsheet tool, wherein the user has only to enter the cubic feet OR wet or dry pounds of street sweepings collected, in order to determine the pounds of TP and TN removed by the activity. This spreadsheet is available on the Palm Beach County MS4 NPDES website.

\* *This assumption is based on a study done by the City of Tampa.*

**Street Sweeping Data**  
**Form SS-TA (2011)**

<b>Street Sweeping Collection Log</b>		
<b>Date</b>	<b>Amount Collected (cf or lbs)</b>	<b>Land Use of Area Swept</b>

<b>Street Sweeping Collection Log</b>		
<b>Date</b>	<b>Amount Collected (cf or lbs)</b>	<b>Land Use of Area Swept</b>

<b>Street Sweeping Collection Log</b>		
<b>Date</b>	<b>Amount Collected (cf or lbs)</b>	<b>Land Use of Area Swept</b>

<b>Street Sweeping Collection Log</b>		
<b>Date</b>	<b>Amount Collected (cf or lbs)</b>	<b>Land Use of Area Swept</b>

<b>Street Sweeping Collection Log</b>		
<b>Date</b>	<b>Amount Collected (cf or lbs)</b>	<b>Land Use of Area Swept</b>

Revised 2/13/12

**SOP SECTION 4**  
**Roadway Maintenance Practices**  
**To Reduce Pollutants**

Roadway repairs and maintenance may take place anywhere throughout the Town's jurisdictional area, and is conducted on an as-needed basis.

Major repair work is typically done as a construction project by a contractor. These projects most often required a Notice of Intent under the State's Generic Construction Permit, which requires a storm water Pollution Protection Plan. Routine inspections are done as part of the construction site inspection program.

Minor repairs, completed by municipal staff, are performed using the following practices:

- Painting, striping, marking, and asphalt and concrete cutting or repair activities are done in dry weather.
- Nearby storm drain inlets are protected by covers, straw bales, sand bags, filter fabric or plastic to reduce the possible entry of wastes, dusts, overspray and/or slurry.
- All waste and debris remaining after the work is swept up and removed.
- Water use is minimized when saw cutting concrete. The waste slurry is allowed to dry and then swept up or a wet vacuum is used to pick up the waste slurry during or immediately after cutting.
- Maintenance supplies (e.g., cement bags, sealants and tars) are stored under cover and away from drainage areas.
- Waste, scraps, rust and paint from any sandblasting or painting projects is collected and disposed of properly.

If any of the above are observed to be in violation or non-complying a report shall be developed by Code Enforcement or duly authorized inspector and filed in this reporting section.

**SOP SECTION 5**  
**Maintenance/Equipment Yard Practices**  
**And Inspections**

There are no, nor have there ever been, Town maintenance and equipment yards and none are anticipated for the future. The Town is 1 square mile and is basically built out. Services that, in other municipalities that require yards, are performed by Town contractors with their own maintenance yards. Town equipment is maintained by off-site contractors.

**SOP SECTION 6**  
**Municipal Waste Treatment Facilities**

The Town does not have and will not have at any time in the future Wastewater facilities within the Town. Waste water is sent to Riviera Beach for treatment.

**SOP SECTION 7**  
**Joint Public Education Program**

The three public education elements in the permit are conducted as a joint program supported by all permittees. Please reference the program description in the Joint Annual Report and/or on the website ([www.pbco-npdes.org](http://www.pbco-npdes.org)).

The Town, as an active member of the NPDES Group is a contributor and participant in distribution of materials and information at Town Hall.

**SOP SECTION 8**  
**Pesticide, Herbicide & Fertilizer Minimization Procedures**

In accordance with our MS4 permit, Mangonia Park continues to endeavor to minimize its use of pesticides, herbicides, and fertilizers on public property. The procedures used to achieve this are as follows:

**All applications of these materials are performed by Contractors and the Town shall confirm, prior to hiring, that Contractor provide written documentation regarding their licensing and training. Only Contractors that meet the requirements as noted below and as may occur in the future will be retained for these services.**

**Pesticides & Herbicides**

Only personnel and contractors who have proof of certification and licensing by the Florida Department of Agriculture and Consumer Services (FDACS) for the application of pesticides and herbicides, are allowed to apply these products.

**Fertilizers**

(By January 1, 2014), All personnel and contractors who apply fertilizers must demonstrate proof of training through the Green Industry BMP Program. In addition, contracted applicators are required to prove certification for "urban landscape commercial fertilizer application."

Until January 1, 2014, personnel will continue to receive annual training on the proper application practices for fertilizers.

Annually, or more often, training on the proper storage and handling of these products is provided to all relevant personnel. Typically, relevant personnel are required to attend the Palm Beach County joint training event where EXCAL employee training videos on storm water pollution prevention are shown.

A list is maintained of all personnel and contractors who have received training, licensing, certification, and annual refresher training.



## SOP SECTION 9

### Proactive Inspection Program Overview

Section III.A.7.c – Illicit Discharges and Improper Disposal – Inspection and Investigation of Suspected Illicit Discharges and/or Improper Disposal

This permit element requires a written **proactive inspection program** for identifying and eliminating sources of illicit discharges, illicit connection or illegal dumping, to your MS4.

- You must inspect portions of your MS4 that have a reasonable potential of containing illicit discharges/connections/dumping. The FDEP has indicated that this should be considered to be the commercial and industrial zoned areas/properties within your MS4 contributing area.
- FDEP allows these inspections to be combined with other inspection programs, but the inspections must include specific inspection for potential stormwater contamination.

#### **Proactive Inspections Written Program Components**

1. Procedure and Criteria for identifying priority areas/facilities
2. List of identified priority areas/facilities
3. Annual schedule for inspections
4. Procedure for conducting site inspections (include checking for MSGP)
5. Procedure for tracing source of discovered or suspected illicit discharge
6. Procedure for eliminating the discharge
7. Procedure for documenting the inspections and enforcement activities  
(See form)
8. Procedures for enforcement actions (or referrals to appropriate jurisdictional authority)
9. Identification of staff /department/outside entity responsible for inspections and for enforcement
10. Description of resources allocated to implement this permit element

## **Proactive Inspection Program (Written Procedures)**

### **1. Procedure and Criteria for identifying priority areas/facilities within MS4:**

According to the MS4 NPDES permit, priority areas for inspection should include:

- Areas with older infrastructure
- Industrial, commercial, or mixed use areas
- Areas with history of past illicit discharges and/or illegal dumping
- Areas with on-site sewage disposal systems
- Areas upstream of sensitive or impaired water bodies

The attached map (NPDES Business Map in Town Dated 10/11 No Revisions Noted) depicts the extent of Town's MS4 contributing area; areas zoned as industrial, commercial or mixed use; areas with on-site septic systems. Facilities that have been identified as the source of illicit discharges in the past are also noted on the map-(none noted as of map development).

### **2. List of identified priority areas/facilities**

Reference Map in SOP Appendix for the priority proactive inspection area/facilities in MS4.

Priority facilities shall be checked against the list of facility types associated with the FDEP MSGP Sectors (see attached list-for current data reference FDEP data base at end of Section 9) to determine their need to be covered by a MSGP.

### **3. Annual schedule for inspections**

All areas/facilities will be inspected at least once within the current permit term. If a facility or area is discovered to have illicit discharges/connections/dumping after enforcement actions taken and issues addressed, it will be placed on the schedule for re-inspection the following year. The schedule for inspecting the priority areas/facilities is annual nominally between September 30 of previous year and October 1 of current year unless otherwise defined by Town's MS4 permit.

### **4. Procedure for conducting site inspections (include checking for MSGP)**

Priority Facility inspections: For proactive facility inspections, the trained inspector conducts an unannounced visit to the facility. A standardized inspection form is used (see form at end of this section).

Priority Area inspections: For general areas that have been designated to have a reasonable potential of containing illicit discharges/connections/dumping, a drive-around procedure is followed. The trained inspector(s) patrols the prioritized area searching for indications of illicit discharges/connections/dumping. If any are identified, the inspector either stops to do a Facility Inspection, a reactive investigation to issues noted in field, or completes a work order form for the appropriate personnel to complete the investigation (if chosen Code Enforcement Dept. to be notified formally by copy of form at end of section).

### **5. Procedure for tracing source of discovered illicit discharge**

Based on items observed, if discharge has obviously entered system, primarily drainage system, each drainage structure will be inspected and followed to outfall point. The reverse will be done if discharge is noted at outfall-drainage structures will be inspected back to source. If needed

laboratory tests will be performed (by lab Contractor) to determine nature of materials and at each drainage structure to attempt to identify source.

**6. Procedure for eliminating the discharge**

Property Owner to be put on notice with time frame and enforcement shall be in accordance with Code Enforcement procedures, including fines allowed by Law, until discharge is eliminated. In some cases if contamination cleanup is severe, the Town may seek funds from designated offender. Should discharge be determined to be immediately detrimental to Public Health and Safety (i.e. large fuel spill) WPB Fire Haz-mat and Sheriff's Dept. may need to be notified. Town to coordinate all agencies involved in an incident and obtain and record under this section any and all reports generated by outside agencies.

**7. Procedure for documenting the inspections and enforcement activities**

Reference form at end of section. Form PID-TA. The initial form and inspections shall be processed through Town Administration.

**8. Procedures for enforcement actions:**

Shall be in accordance with Codified Code Enforcement procedures as revised from time to time. In the case where outside agency may have jurisdiction that jurisdiction shall be notified in writing with form PID-TA and a written cover letter or memo explaining the violation being observed. For example, 45<sup>th</sup> Street and Australian Avenue are under control of Palm Beach County Engineering. If discharge is noted going to one of these systems Town shall immediately take action to abate/eliminate cause from Town Resident/Business and notify County of situation. Town will then cooperate and aid County in their efforts to address their MS4 systems.

**9. Identification of staff /department/outside entity responsible for inspections and for enforcement:**

The departments within the Town that may be involved in this effort:

- 1) Town Administration
- 2) Building Dept.
- 3) Code Enforcement
- 4) Consulting Engineers

Outside Agencies that have potential involvement:

- 1) Palm Beach County
- 2) City of West Palm Beach
- 3) City of Riviera Beach
- 4) Palm Beach County Health Department
- 5) West Palm Beach Fire Rescue-Hazmat Division
- 6) Palm Beach County Sheriff's Dept.

**10. Description of resources allocated to implement this permit element:**

Town budget and special assessments, if needed, of violators. The Town's budget should cover all personnel and contractors initially involved.

**Proactive Illicit Discharge/Illegal Connection Inspection Form**  
**Mangonia Park-Town Administration**  
**Form PID-TA (2011)**

Date of Inspection: \_\_\_\_\_ Inspector(s) \_\_\_\_\_  
Address of Facility or General Description of Area Inspected: \_\_\_\_\_  
\_\_\_\_\_

Identification of MS4 component that could receive discharge from this site/area: \_\_\_\_\_  
\_\_\_\_\_

If Facility inspection, does type of business require an MSGP? Yes\_\_\_ No\_\_\_  
If yes, does this facility have one? Yes\_\_\_ No\_\_\_

**Findings:**

Evidence of illicit connections to storm sewer?	Yes___ No___
Evidence of dumping/spills to storm sewer?	Yes___ No___
Evidence of wash water going to storm sewer?	Yes___ No___
Storage tanks leaking or improperly contained?	Yes___ No___
Stockpiles/debris piles uncontained?	Yes___ No___

If "yes," to any above, describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Type of Enforcement Action Taken:

\_\_\_\_\_  
\_\_\_\_\_

Date to verify elimination: \_\_\_\_\_

Date of Referral to FDEP of facility that may require MSGP: \_\_\_\_\_ (attaché copy of referral)

Follow Up/Additional

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SOP SECTION 10**  
**Proactive and Reactive Inspection Programs**

This permit element requires a written **reactive investigation program** for suspected illicit discharges that are reported by others.

**Reactive Inspection Program (Written Procedures):**

Anytime a complaint is received by Town, Town personnel contacted shall take pertinent information regarding location, source, type of discharge to MS4, and shall initiate a site inspection through Town Administration.

**Proactive Inspection Program (Written Procedure):** Anytime an inspector is in the field observing other inspection items, the inspector shall identify potential sources of illicit discharges at commercial and industrial sites and take pertinent information regarding location, source, type of discharge to MS4, and shall initiate a site inspection through Town Administration.

**Procedure for tracing source of discovered illicit discharge:**

If needed, laboratory testing will follow visual observation if observation cannot specifically identify source and discharge.

**Procedure for eliminating the discharge:**

Town shall notify business through Code Enforcement procedures and will be given direction for elimination of problem along with timing and information regarding fines.

**Procedure for documenting the inspections and enforcement activities**

See form at end of this section

**Procedures for enforcement actions (or referrals to appropriate jurisdictional authority):**

Enforcement actions shall be taken in accordance with Town Code Enforcement procedures. Should an outside Agency or CO-permittee be involved, written notification shall be forwarded to applicable agency and Town will follow up with Agency and obtain for Town files any report and documentation outside Agency develops.

**Identification of staff /department/outside entity responsible for inspections and for enforcement:**

All complaints shall be brought to Town Administration, which will determine and assign responsibility for inspection actions and enforcement procedures. Administration shall be contact and coordinator if any outside Agencies are involved.

**Description of resources allocated to implement this permit element:**

Town budget. The cost of problem resolution shall be the Owner of the site producing the contamination. Cost recovery shall be subject to applicable laws and statutes and if needed, Town shall pursue cost recovery through the Court system if needed.

Proactive and Reactive Investigation of Reported Illicit Discharge/Illegal Connection/Illegal Dumping  
Mangonia Park Administration  
FORM PRI-TA (2011)

Town Personnel Receiving Complaint or Initiating Insp.: \_\_\_\_\_

Date: \_\_\_\_\_

Site Location (Address) and

Business \_\_\_\_\_

Date suspected illicit was reported or observed: \_\_\_\_\_

Date of investigation: \_\_\_\_\_

MS4 Receiving system: \_\_\_\_\_

If not within MS4, date and to whom referral made (reactive):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Verification of problem:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Type of discharge/connection/dumping: \_\_\_\_\_

Determined Source: \_\_\_\_\_

Type of enforcement action taken: \_\_\_\_\_

Date to verify elimination: \_\_\_\_\_

Party Responsible for Cost of Cleanup: \_\_\_\_\_

Notes/Commentary on Resolution:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SOP SECTION 11**  
**Spill Prevention & Response Procedures**  
**and**  
**Training Procedures**

Following is the Town's procedures for responding to spills within our jurisdictional area.

The Town is contracted with West Palm Beach Fire Rescue for all Spill Response issues.

Town personnel shall be trained in the required procedures to contact with WPBFR by WPBFR.

If traffic control for a roadway spill is necessary, Town Personnel shall immediately contact PB County Sheriff's Dept. branch located at Town Hall.

Town personnel shall also follow up with WPBFR and obtain and keep copies of all incident reports by WPBFR, copies of which shall be filed in this section of reports.



**SOP SECTION 12**  
**Plan to Eliminate Illicit Wastewater Contamination in MS4**

The Town only operates the wastewater collection and transmission system within Town jurisdiction. Treatment is Provided by Riviera Beach

There are no septic systems in the MS4. All MS4 in areas zoned Industrial and septic systems are prohibited in this zoning.

If so,

Should a wastewater spill or illegal connection be proactively or actively determined, the situation shall be reported to Town Administration, at which time TA shall contact the Town's Utility Dept. (MPUD) for resolution. Involved Town personnel shall follow up with and obtain any and all reports generated by MPUD and/or PB County Health Department.

Identified indications of wastewater contamination are documented in the report section of the operating procedures. Follow-up with the Utility Department is conducted so that documentation of the response and resolution can also be made in the log. In addition, the Utility Department provides information on other reported wastewater spills for inclusion in the log.

**SOP SECTION 13**  
**High Risk Facilities Inspection Program**

High Risk facilities have been defined as:

- Operating municipal landfills **(N/A for Town)**
- Hazardous waste treatment, storage, disposal and recovery facilities **(N/A for Town)**
- Facilities that are subject to EPCRS Title III, Section 313 (Toxic Release Inventory)  
**(Research Data Bases-see 9-General Comments below)**
- Any other industrial or commercial discharge that the permittee determines is contributing a substantial pollutant loading to the Town's MS4. This could include facilities identified through the proactive inspection program as per SOP Section 9.

High Risk Facility Written Program Components Summary

1. An up-to-date inventory that includes the outfall location of each high risk facility and the surface water body into which the facility discharges
2. Procedure for prioritizing the inventory for inspection
3. Procedure for conducting site inspections (include checking for MSGP)
4. Procedure for addressing non-compliant discharges
5. Procedure for documenting the inspections and enforcement activities  
(See form)
6. Identification of staff /department/outside entity responsible for inspections and for enforcement
7. Schedule for the training of inspectors
8. Description of resources allocated to implement this permit element

## High Risk Facility Inventory and Inspection Program (Written Procedures)

### 1. An up-to-date inventory

The inventory is updated as follows:

- Municipal landfills are located using the Palm Beach County Solid Waste Authority website ([www.swa.org](http://www.swa.org)). (N/A)
- Hazardous Waste TSDR facilities are located using the EPA's envirofacts website ([www.epa.gov/enviro/](http://www.epa.gov/enviro/)). (N/A)
- Facilities subject to EPCRA Title III, Section 313 are located using EPA's Toxic Release Inventory ([www.epa.gov/tri](http://www.epa.gov/tri)).
- Additional facilities are added as deemed appropriate during the proactive inspections for illicit discharges.

Summarization of inventory includes the following information about each facility:

Name  
Address  
Source of listing  
Type ( TRI sites, other)  
Priority

**The inventory will be updated annually.**

### 2. Procedure Prioritizing Facilities

Facilities that have had recent reported releases or that were added to the high risk facility inventory as a result of a pro-active inspection for illicit discharges are given top priority (Priority = 1). All other facilities that are in the MS4 watershed will be given secondary priority (Priority = 2).

### 3. Procedure for conducting site inspections (include checking for MSGP)

All High Risk facilities are inspected **once** within the Permit Term. Facilities that have been given a Priority 1 ranking are inspected annually. The High Risk facility Inspections are conducted one time per year. Inspection forms (at end of this section) are generated for the facilities to be inspected. Information available ahead of time is filled in before going into the field. At this time the facilities to be inspected are compared to the list of business types that require an MSGP. If a facility appears to be required to have coverage under an MSGP, it is noted on the inspection form and will be checked at the facility at the time of the inspection.

The inspector conducts an unannounced visit to the facility. A standardized inspection form is used to determine any storm water non-compliance issue.

4. **Procedures for enforcement actions (or referrals to appropriate jurisdictional authority)**  
Town Administration will determine personnel and and/or Departments that will be involved with inspections and enforcement.

5. **Procedure for documenting the inspections and enforcement activities**  
Reference Inspection Form at end of this section.

6. **Identification of staff /department/outside entity responsible for inspections and for enforcement:**  
To be assigned on a case by case basis by Town Administration.

The following Departments members may responsible for the high risk facility inspections and enforcement activity as determined by Town Administration:

- 1) Town Administration
- 2) Town Engineer
- 3) Code Enforcement
- 4) Building Department
- 5) Utility Department

7. **Schedule for Training Inspectors**

Training is provided for individuals whose job responsibility it is to conduct high risk facility inspections. The training is concurrent with the training for the Pro-active illicit discharge inspection program.

8. **Description of resources allocated to implement this permit element**

Annually, approximately \$ 3,000.00 is estimated to be budgeted for this permit program and primarily is made up of portions of salaries and supporting funds for involved Departments. Following in this section is database for businesses located in Town MS4 as of 2010. This database will be generated yearly and checked yearly for high-risk facilities. Map sketch precedes data base-gray shaded area MS 4.

9. **General Comments on Inventory Research.**

**2011-EPA Data Base Researched-There are no listed High Risk Facilities Within EPA TRI 2010 Inventory**

**2012** \_\_\_\_\_

**2013** \_\_\_\_\_

**2014** \_\_\_\_\_

**2015** \_\_\_\_\_

High Risk Facility Inspection Form  
Form HRI-TA (2011)

Date of Inspection: \_\_\_\_\_ Inspector: \_\_\_\_\_

Name of Business or Owner: \_\_\_\_\_

Address of Business Owner if Different from Facility \_\_\_\_\_

Address of HR Facility: \_\_\_\_\_

Identification of MS4 component that could receive discharge from this site: \_\_\_\_\_

Does type of business require an MSGP? Yes\_\_\_ No\_\_\_

If yes, does this facility have one? Yes\_\_\_ No\_\_\_

Findings:

Evidence of illicit connections to storm sewer? Yes\_\_\_ No\_\_\_

Evidence of dumping/spills to storm sewer? Yes\_\_\_ No\_\_\_

Evidence of wash water going to storm sewer? Yes\_\_\_ No\_\_\_

Storage tanks leaking or improperly contained? Yes\_\_\_ No\_\_\_

Stockpiles/debris piles uncontained? Yes\_\_\_ No\_\_\_

If "yes," to any above, describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Type of Enforcement Action Taken: \_\_\_\_\_

Date to verify elimination: \_\_\_\_\_

Date of Referral to FDEP of facility that may require MSGP: \_\_\_\_\_

**SOP SECTION 14**  
**Site Plan Review Procedures**

Site Plan Reviews are required for all projects that propose new construction and/or alterations to an existing site that involves parking and/or building expansion.

Application packages for building/construction/grading permits include notification presenting the need for obtaining an *Environmental Resource Permit* (ERP) and/or coverage under the *NPDES Generic Permit for Storm water Discharge from Large and Small Construction Activities* (CGP).

Site Plan Reviews are typically conducted by the Town during the final site plan procedures (review and approval of construction documents. Personnel in Administration will assign the review, as applicable, to the Town Engineer or applicable sub-department.

Current Town criteria are used as the guideline for review of the temporary and permanent storm water treatment practices that are being proposed by the site plan and notification to the applicant that the applicant is responsible to obtain any and all other permits required under Local, State and/or Federal Laws and that copy of said permit(s) shall be submitted for the Town's files prior to final approval of the construction documents by the Town.

Applicants for a building/construction/grading permit are advised that coverage under the Construction Generic Permit may be required. Applicants are further advised that permission/a permit/authorization to perform clearing, grading or construction activities will not be granted until proof of a SFWMD or FDEP ERP and/or coverage under the CGP is provided, if required.

The following checklist is used when performing site plan reviews:

YES	NO	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proposed work requires coverage under CGP.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proposed work appears to require an ERP.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proposed temporary storm water sedimentation & erosion control BMPs appear to be appropriate for the project.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proposed permanent storm water BMPs meet local requirements.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Copy of confirmed coverage under CGP provided.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Copy of ERP or other applicable permit is provided.

**SOP SECTION 15**  
**Construction Site Inspection Plan and Inspection Form**

Construction site inspections are conducted for land-disturbing projects which have the potential to discharge storm water runoff into our MS4.

**Timing**

Construction site inspections are conducted:

- Before the start of construction, after the placement of temporary BMPs
- During construction (one or more inspections, based on the project's potential for discharge to our MS4)
- At the end of the construction

**Site Priority**

All construction sites are inspected if they have the potential to discharge into Town's MS4 (Note all construction sites in Town are subject to review (Sec 14) and inspections regardless of their location in Town). Sites will be inspected with a frequency deemed appropriate during the site plan review process and with consideration to rainfall events. In addition, any sites where compliance is a concern, will be inspected more frequently.

**Inspection Procedure**

Assignment of inspections is the responsibility of Town Administration and will be conducted using the attached construction site inspection form or similar report format. The intent of the inspection is to verify that BMPs are in place performing and to document the inspections. All completed inspection forms are kept in the records section of Towns MS4.

**Enforcement**

Instances of non-compliance will be handled with successively more rigorous enforcement measures through Town Administration and Code Enforcement Dept..

1. Notice of Violation
2. Stop work order
3. Fines

The construction site inspector will issue notices of violation or stop work orders as deemed necessary. Fines will be issued in accordance with Town Law.

# Construction Site Inspection Form

## Mangonia Park Administration

### CSI-TA (2011)

Site: \_\_\_\_\_

Date of Inspection: \_\_\_\_\_

Inspector: \_\_\_\_\_

Address: \_\_\_\_\_

Lat/Long of discharge point: \_\_\_\_\_ Receiving water body: \_\_\_\_\_

Project owner: ☐ Private ☐ Other \_\_\_\_\_

**YES NO N/A**

- |                          |                          |                          |  |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Erosion & Sedimentation Controls are installed as shown on plan. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Erosion is being controlled on site.                             |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sedimentation is being contained on site.                        |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No indication of sedimentation leaving the site.                 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | SWPP & completed inspection forms are on site & available.       |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Prior non-compliance issues have been addressed.                 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | All other sources of pollution are being controlled.             |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Copy of SFWMD or FDEP Permit (if applicable) is on-site.         |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Coverage under the GCP has been obtained.                        |

**Comments (Note details of any enforcement actions and resolution-attach add. Sheets if necessary):**

---

---

---

---

---

---



SOP SECTION 16  
Joint Training Program

There are a number of permittee training requirements in the permit that are conducted jointly by the Steering Committee. These include the topics:

- Identifying and reporting conditions that may indicate illicit discharge/connection/dumping to the MS4 (for permittee personnel & contractors)
- Spill prevention, containment and response techniques (for permittee personnel & contractors)
- Storm water management, erosion and sedimentation controls (for permittee personnel or contractors)

The first two topics are presented as refresher training once a year. The training is open to all permittee personnel. EXCAL videos are used to present the material. Attendance is documented using sign in sheets.

The last topic is presented at an annual FDEP Erosion and Sedimentation Control Inspector Training, sponsored by the Palm Beach County MS4 permittee group, and presented by Cheryl Moore, a state certified trainer.

Details about the program are provided in the joint annual report and on the website ([pbco-npdes.org](http://pbco-npdes.org)).

**APPENDICES**  
**NPDES STANDARD OPERATION PROCEDURES**

- 1) MAP # 1 – STRUCTURAL CONTROLS (CAD FORMAT AVAILABLE)
- 2) MAP # 2 - DRAINAGE BASINS AND OUTFALL IN TOWN
- 3) MAP # 3 - BUSINESSES IN MS4 PDF (CAD FORMAT AVILABLE)
- 4) MAP # 4 – SFWMD PERMITS IN TOWN
- 5) MAP # 5 - MS-4 – ORIGINAL AS-BUILTS OF MS4 DRAINAGE SYSTEM  
(Note: structure designations, etc. do not correspond to MS4 structure assignments)
- 6) LIST OF BUSINESSES IN MS-4
- 7) LIST OF HIGH RISK FACILITIES (W/ NOTES ABOUT MGSP)







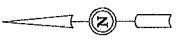
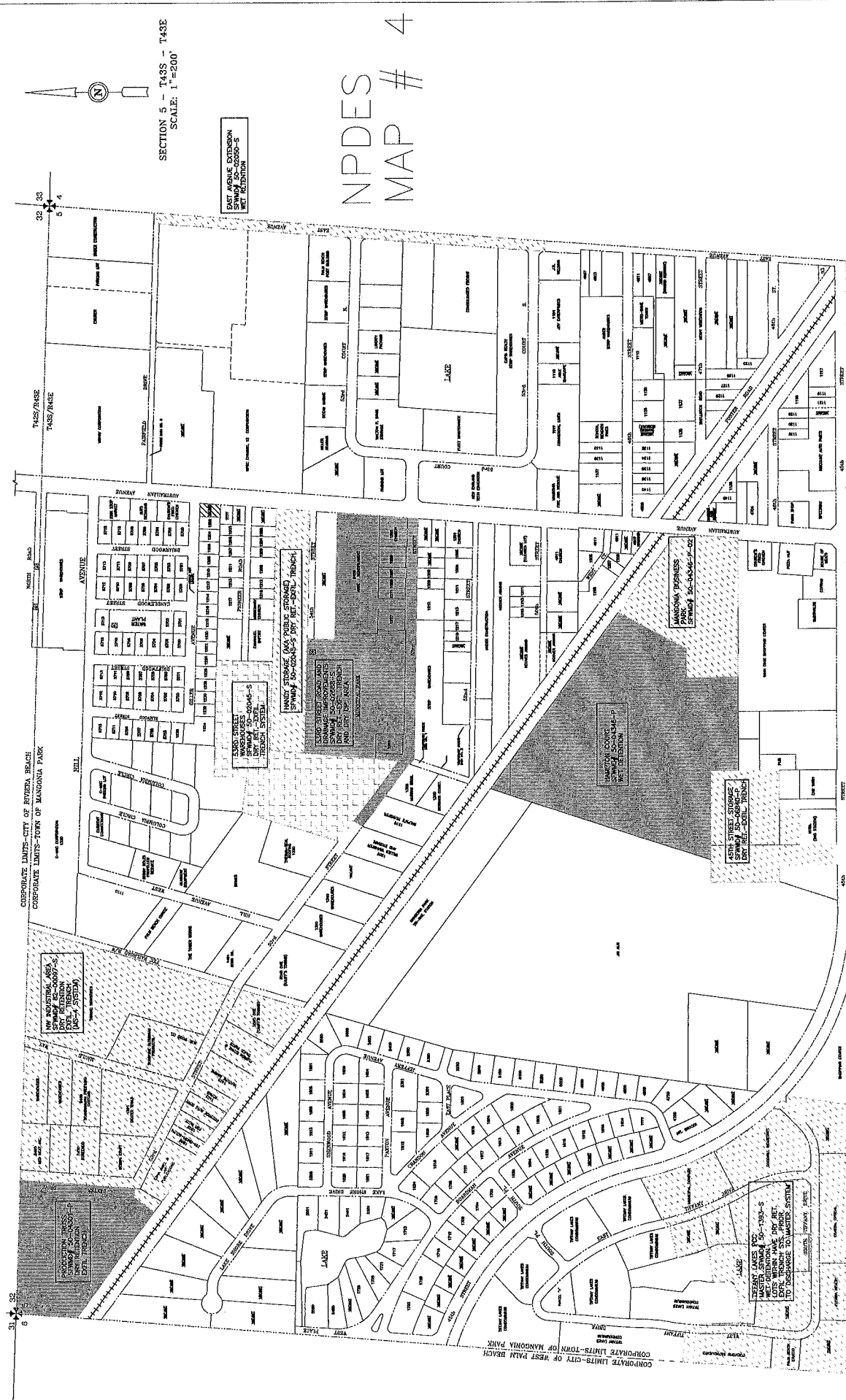
SECTION 5 - T43S - T43E  
SCALE: 1"=200'

NPDES  
MAP #3BUSINESSES IN MS 4  
SHADED AREA

SHAOED AREA=MP NPDES AREA

CORPORATE LIMITS-CITY OF RIVIERA BEACH  
CORPORATE LIMITS-TOWN OF MANGONIA PARK

CORPORATE LIMITS-CITY OF WEST PALM BEACH  
CORPORATE LIMITS-TOWN OF NANGONIA PARK



SECTION 5 - T435 - T436  
SCALE: 1"=200'

WET RETENTION  
POND

# NPDES MAP # 4

TOWN OF MANGONIA PARK				SEAL
DATE	REVISION	BY	DESCRIPTION	
01/15/00	01/15/00	01/15/00	01/15/00	
SWM PERMITTED PROJECTS				
SOUTHERN DESIGN GROUP, INC.				
Engineering, Planning & Project Management				
10000 W. US Highway 1, Suite 100, Mangonia Park, FL 33411				
PROJECT NO. 01/15/00				
SHEET NO. 1				
DATE: 01/15/00				
BY: 01/15/00				
CHECKED: 01/15/00				
APPROVED: 01/15/00				
NOTED: 01/15/00				

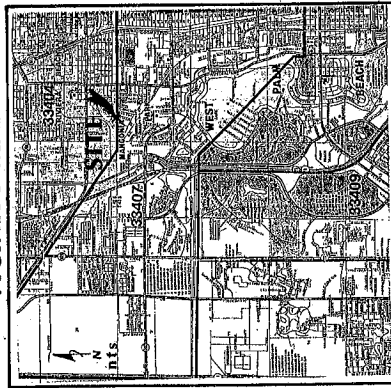
GENERAL NOTE: ALL NEW OR REDEVELOPED SITES ARE REQUIRED TO OBTAIN A PERMIT FROM THE TOWN OF MANGONIA PARK PRIOR TO DISCHARGE.

STATE OF FLORIDA  
COUNTY OF PALM BEACH

# TOWN OF MANGONIA PARK

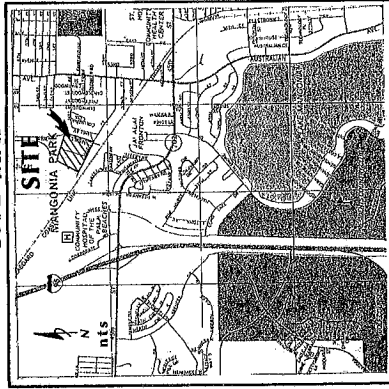
CONSTRUCTION PLANS  
FOR  
WEST OUTFALL (OUTFALL NO. 1) INTO RC-2C CANAL

VICINITY MAP



S. 5 & 32 T. 43 S. R. 43 E.

SITE MAP



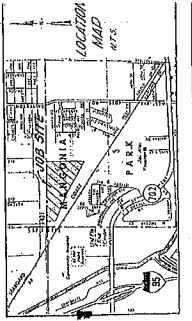
**SHEET INDEX**

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	DRAINAGE PLAN
3.	DRAINAGE DETAILS & SPECIFICATIONS

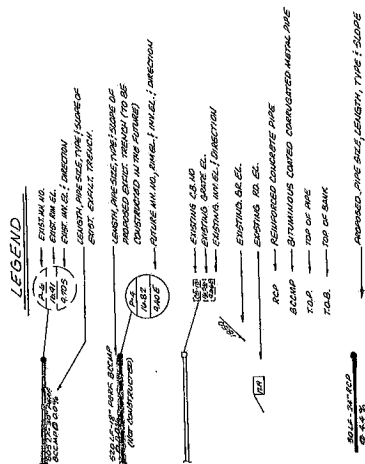
PREPARED BY:  
**SOUTHERN DESIGN GROUP, INC.**  
609 Hepburn Avenue, Suite 204  
Jupiter, Florida 33458 (407) 743-0501  
**OCTOBER 1990**

**TOWN COUNCIL**  
GALE ENGLISH - MAYOR  
ADDIE GREENE - VICE - MAYOR  
GERALD HENIN - COUNCILMAN  
ALAN PALMER - COUNCILMAN  
SELETHEA SCOTT - COUCILWOMAN

APPROVED BY: Walter J. P. Jones  
Commissioner of Public Works.  
DATE: 11/16/90  
Job Name: OUTFALL NO. 1  
Job No. INTO RC-2C CANAL  
Job No. 338043



SEC 5:32, TWP 43S, RUG 43E

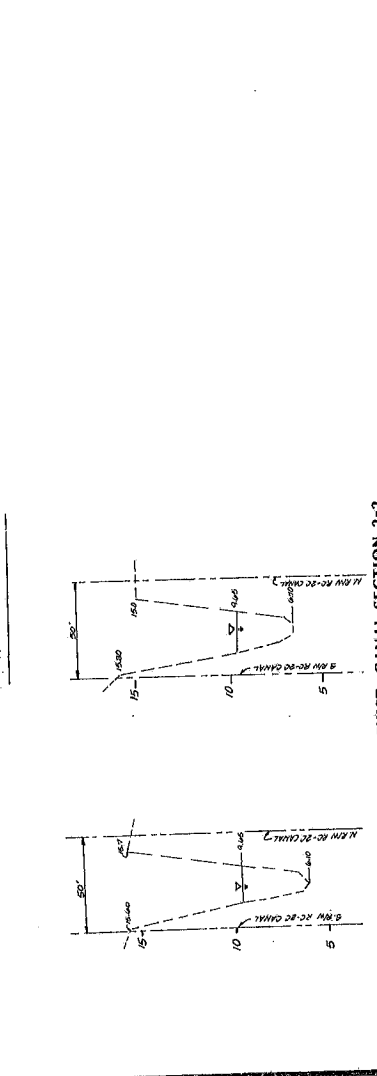
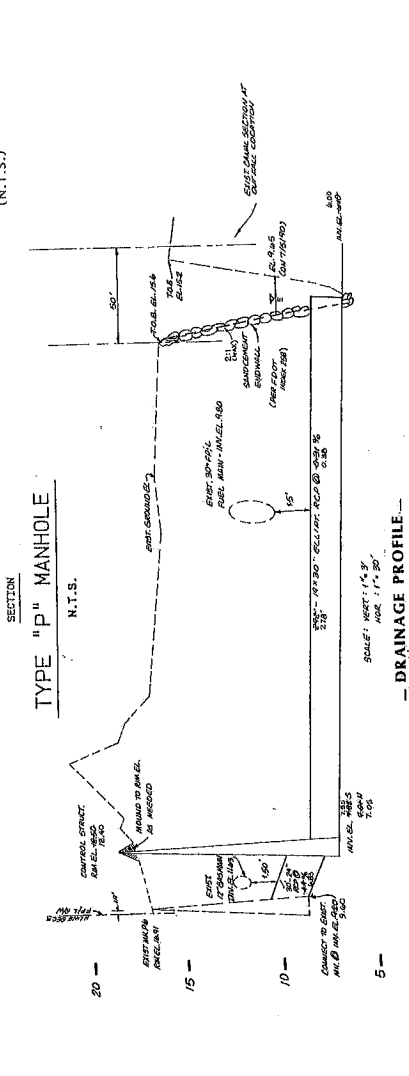
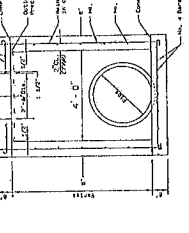
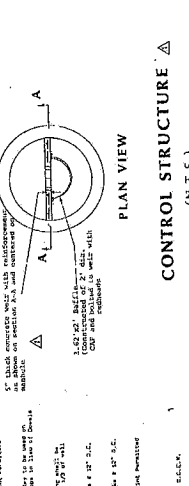
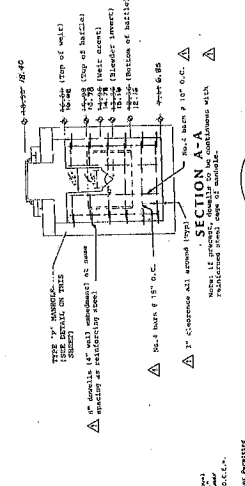
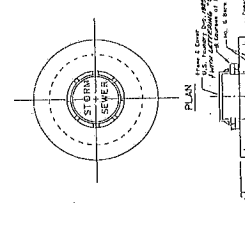
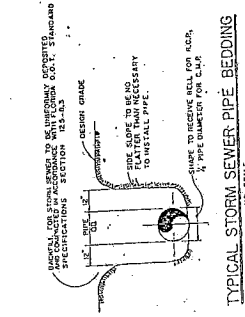


**Solution**

1. Contractor shall verify horizontal and vertical alignment of existing utilities prior to start of construction.
2. Contractor shall notify all utilities (P&H, ENOR GAS, etc.) prior to pipe construction at conflict crossings.
3. Existing ground elevations within P&H R/W, existing canal sections and existing invert elevations at connection points shall be verified by a Professional Engineer or a Professional Surveyor.
4. Base map information per Lindahl Brownlie and Ferraro, Inc. Map No. 82-005, dated January, 1982.
5. Existing and future drainage systems within the Town of Mendota shall be verified by a Professional Engineer or a Professional Surveyor.

[illegible]





EXIST. CANAL SECTION 1-1

EXIST. CANAL SECTION 1-1

EXIST. CANAL SECTION 2-2

[illegible][illegible][illegible]

**INTERLOCAL AGREEMENT**  
**BETWEEN THE TOWN OF MANGONIA PARK**  
**AND THE CITY OF RIVIERA BEACH**

THIS AGREEMENT entered into on this 15 day of July, 1998, to be effective 7-15, 1998, (the "Effective Date"), by and between the TOWN OF MANGONIA PARK, FLORIDA, a Florida municipal corporation with offices located at 1755 Tiffany Drive, Mangonia Park, Florida 33407, (the "Town") and the CITY OF RIVIERA BEACH, FLORIDA, a Florida municipal corporation with offices located at 600 West Blue Heron Boulevard, Riviera Beach, Florida 33404, (the "City").

WITNESSETH:

WHEREAS, the Town and the City are adjoining municipalities; and

WHEREAS, the Town has a need for a storm water drainage outfall in the RC-2C Canal which is located within the corporate limits of the City; and

WHEREAS, the RC-2C Canal has the capacity to discharge storm water runoff into the C17 drainage canal; and

WHEREAS, the Town is desirous of discharging stormwaters through control structures to the RC-2C Canal; and

WHEREAS, the City is desirous of assisting said neighboring municipality and both municipalities desire to cooperate for the mutual benefit of both communities and enter into an Interlocal Agreement to accomplish their goals in accordance with Section 163.01, Florida Statutes which is known as the Florida Interlocal Cooperation Act of 1969.

NOW THEREFORE, for and in consideration of the terms and conditions and mutual promises set forth herein and the benefits flowing each to the other, it is hereby agreed by and between the parties hereto as follows:

Section 1. Recitals. The above recitals are true and correct.

Section 2. Use of Canal. The City shall allow the Town to discharge stormwater runoff into the RC-2C Canal which is located in the City in accordance with the terms and conditions as set forth herein.

Section 3. Definitions. As used in this Agreement, the term(s) herein are defined as follows:

*Contaminant* is any substance which is harmful to plant, animal or human life.

- Section 4. Maximum Drainage Discharge. The Town agrees that it will not discharge more than 26.7 cfs via the two (2) previously approved control structures into the RC-2C Canal. This volume represents approximately 10% of the total capacity of the canal.
- Section 5. Improvements. The parties agree that in order that the RC-2C drainage canal have maximum capacity, future improvements may be required. The City will determine when the upgrading of the culverts will be necessary. These improvements are not anticipated to be made in the near future. Specifically the improvements are the addition of two (2) 48 inch culverts to be constructed at the second set of culverts east of the C17 under the railroad tracks and one (1) 48 inch culvert to be constructed at the first set of culverts east of the C17 under the railroad tracks. The Town agrees to be responsible for 10% of the construction costs which shall be paid within thirty days of receipt of an invoice.
- Section 6. Drainage System. The Town also agrees that prior to discharging water into the RC-2C Canal, the Town will complete a drainage system within the Town to control the discharge; said drainage system being the same system which has been approved by the South Florida Water Management District.
- Section 7. Maintenance of Canal. The Town acknowledges that the RC-2C Canal should be cleaned to remove the overgrown shrubbery between the outfall to C17 and the first railroad track and in addition thereto understands that other maintenance shall be required in the future. The Town agrees to pay a pro rata share of the maintenance of the Canal based upon its 10% use of the Canal. Thirty (30) days prior to commencing maintenance work, the Town shall be consulted to confirm that said costs have been budgeted by the Town.
- Section 8. No Contaminants. The Town acknowledges that the discharge will only consist of storm water runoff which is free of contaminants as defined in Section 3 hereinabove. The Town agrees to cease discharge and remove outfall if contaminants are found in the discharge.
- Section 9. Plan Approval. The Town agrees to obtain plan approval from the City Engineering Division prior to construction of the drainage outfall system within the Town connecting with RC-2C and to inform said division of the progress on all phases of construction of said outfall in the form of a certificate by a registered engineer.
- Section 10. Non Assignment. This Agreement shall not be assigned or transferred by either party without written consent from the other.
- Section 11. Notice: Notice as stated herein shall be considered sufficient when such notice is sent by certified mail or hand delivered to the parties at the following addresses:

Town of Mangonia Park  
1755 E. Tiffany Drive  
Mangonia Park, FL 33407  
Attn: Town Administrator

City of Riviera Beach  
600 West Blue Heron Blvd.  
Riviera Beach, Florida 33404  
Attn: City Manager

- Section 12. No Transfer of Power: Nothing contained in this Agreement shall be construed to constitute a transfer of powers in any way whatsoever. This Agreement is solely an interlocal agreement to provide services as authorized by Chapter 163, Florida Statutes. The Town Council and City Council shall each retain all legislative authority with regard to their respective governing body. All of the privileges and immunities from liability as set forth in Section 768.28, Florida Statutes, and elsewhere; exemptions from laws, ordinances and rules; and pensions and relief, disability, insurance, workers' compensation, salary, death and other benefits which apply to the activity of officers, agents, or employees of any public agents, or employees of any public agency when performing their respective functions within the territorial limits for their respective agencies shall apply to the same degree and extent to the performance of such functions and duties of such officers, agents or employees extra-territorially under the provisions of any such interlocal agreement. Each party will be responsible for its own negligence.
- Section 13. Termination. The parties agree that in the event either party is in default of its obligations under this Agreement, the party not in default shall provide the defaulting party with a written notice of the default and shall allow the defaulting party thirty (30) days to remedy the default. In the event there is no remedy, the non-defaulting party shall have the right to terminate this Agreement and exercise any of its rights under the law.
- Section 14. Attorneys' Fees. In the event that it becomes necessary for either party to employ counsel to enforce this Agreement, whether or not suit be brought, the prevailing party shall be entitled to reasonable attorneys' fees and costs, including fees on appeal.
- Section 15. Severability. Should any provision of this Agreement be declared invalid by a court of competent jurisdiction, same shall be deemed stricken herefrom and all other terms and conditions of this Agreement shall continue in full force and effect as if such invalid provision had never been a part hereof.
- Section 16. Delay Not a Waiver. No delay by a party in enforcing any covenant or right hereunder shall be deemed a waiver of such covenant or right, and no waiver by a party of any particular provision hereof shall be deemed a waiver of any provision or a continuing waiver of such particular provision, and except as so expressly waived, all provisions hereof shall continue in full force and effect.

Section 17. Entire Understanding. This Agreement constitutes the entire understanding of the parties with respect to the RC-2C Canal. It may not be modified or any of its provisions waived, unless such modification and/or waiver is in writing and is agreed to and signed by both parties.

Section 18. Triplicate Execution: Filed with Clerk. This Agreement shall be signed in triplicate by both parties and filed for record with the Clerk of the Circuit Court of Palm Beach County pursuant to Section 163.01 of Florida Statutes.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be signed by their duly authorized officers on this 15 day of July, 1998.

TOWN OF MANGONIA PARK

Alan J. Palmer  
ALAN J. PALMER, MAYOR

ATTEST:

Shirley M. Lewis  
TOWN CLERK

APPROVED AS TO LEGAL FORM:

John D. White  
TOWN ATTORNEY

CITY OF RIVIERA BEACH

Clara K. Williams  
CLARA K. WILLIAMS, MAYOR

ATTEST:

Carrie C. King  
CITY CLERK

APPROVED AS TO LEGAL FORM:

[Signature]  
CITY ATTORNEY

# LDR SUMMARY REPORT

## **Palm Beach County MS4 Permit Year 2 Additional Requirements (October 1, 2011 – September 30, 2012) Revised February 5, 2013**

1. Conduct an inter-departmental review of a review of code regulation and comprehension to further reduce the stormwater impact from new development /redevelopment. The intent of this review is to determine if existing land development regulations impede or do not allow the use of "Low Impact Design" BMPs such as swales, pervious pavements, etc. These innovative BMPs can help to retain more stormwater runoff on-site and allow it to recharge the groundwater. As part of the review the following items should be addressed.
  - a. Provide a listing and a brief description of your applicable community's comprehensive plan elements and land development regulations/codes/ordinances.
  - b. Do your community's comprehensive plan and land development regulations/codes allow or promote the use of low impact design principles, such as:

- |     |   |     |                                     |    |   |
|-----|---|-----|-------------------------------------|----|---|
| (1) | Grassed Swales  | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>                |
| (2) | Pervious pavements  | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>                |
| (3) | Green roofs   | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/>     |
| (4) | Rain barrels  | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/>     |
| (5) | Cisterns  | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/>     |
| (6) | Directing flows from impervious surfaces to vegetated areas | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>                |
| (7) | Native vegetation for landscaping                           | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>                |
| (8) | Require open spaces minimum (30% or more)                   | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/> 20% |
| (9) | Bio-retention Facilities (no land available)                | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/>     |

- |      |   |   |  |
|------|---|---|--|
| (10) | Landscaping with best management practices                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| (11) | Adherence to principles of Florida<br>Yards & Neighborhoods Program | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |
| (12) | Irrigation conservation practices                                   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| (13) | Provide infiltration trenches                                       | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |
| (14) | Vegetative filters/buffers  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |

- c. Does your community's land development regulations/codes require revisions to include low impact design principles? Yes ☐ No ☒
- d. If yes, identify items in "b" above that will be added to your community land development regulations/codes (e.g., (5), (7), (8), etc.).
- e. Does your community's site plan review process assure that stormwater impacts are minimized? Yes ☒ No ☐

**ORDINANCE NO. 2012-03**

AN ORDINANCE OF THE TOWN COUNCIL OF THE TOWN OF MANGONIA PARK, FLORIDA, AMENDING ITS CODE OF ORDINANCES AT APPENDIX B. FLOODPLAIN MANAGEMENT BY REPEALING THIS APPENDIX IN ITS ENTIRETY AND RE-ADOPTING IT TO PROVIDE UPDATED REGULATIONS IN CONFORMANCE WITH REQUIREMENTS OF THE NATIONAL FLOOD INSURANCE PROGRAM; FURTHER AMENDING CHAPTER 6. BUILDINGS AND BUILDING REGULATIONS BY ADOPTING CERTAIN ADMINISTRATIVE AMENDMENTS TO THE FLORIDA BUILDING CODE PURSUANT TO SEC. 553.73(5), FLORIDA STATUTES, IN FURTHERANCE OF THE NATIONAL FLOOD INSURANCE PROGRAM; PROVIDING THAT EACH AND EVERY OTHER SECTION AND SUBSECTION OF THE TOWN OF MANGONIA PARK CODE OF ORDINANCES SHALL REMAIN IN FULL FORCE AND EFFECT AS PREVIOUSLY ADOPTED; PROVIDING A CONFLICTS CLAUSE A SEVERABILITY CLAUSE AND AUTHORITY TO CODIFY; PROVIDING AN EFFECTIVE DATE; AND FOR OTHER PURPOSES.

**WHEREAS**, the Legislature of the State of Florida has, in Chapter 166, Florida Statutes, conferred upon local governments the authority to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

**WHEREAS**, the Federal Emergency Management Agency has identified special flood hazard areas within the boundaries of the Town of Mangonia Park and such areas are subject to periodic inundation which may result in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety and general welfare, and

**WHEREAS**, the Town of Mangonia Park was accepted for participation in the National Flood Insurance Program on March 1, 1978 and the Town Council of the Town of Mangonia Park desires to continue to meet the requirements of Title 44 Code of Federal Regulations, Sections 59 and 60, necessary for participation in the National Flood Insurance Program; and

**WHEREAS**, Chapter 553, Florida Statutes, was adopted by the Florida Legislature to provide a mechanism for the uniform adoption, updating, amendment, interpretation and enforcement of a state building code, called the *Florida Building Code*;



and

**WHEREAS**, section 553.73(5), Florida Statutes, allows adoption of local administrative amendments to the *Florida Building Code* to implement the National Flood Insurance Program and incentives; and

**WHEREAS**, the Town Council of the Town of Mangonia Park has determined that it is in the public interest to adopt the proposed floodplain management regulations that are coordinated with the *Florida Building Code*; and

**WHEREAS**, the Town Council of the Town of Mangonia Park has determined that it is in the public interest to adopt the proposed local amendments to the 2010 *Florida Building Code* and that the proposed amendments are not more stringent than necessary to address the need identified, do not discriminate against materials, products or construction techniques of demonstrated capabilities, and are in compliance with section 553.73(5), Florida Statutes.

NOW, THEREFORE, BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF MANGONIA PARK, FLORIDA, THAT:

**Section 1:** Appendix B. Floodplain Management. of the Code of Ordinances of the Town of Mangonia Park is hereby repealed in its entirety and re-adopted to provide updated regulations in conformance with requirements of the National Flood Insurance Program; further adopting certain administrative amendments to the Florida Building Code in furtherance of the National Flood Insurance Program; providing that Appendix B shall hereafter read as follows:

## **APPENDIX B**

### **FLOODPLAIN MANAGEMENT**

Art. I.	Administration. §§ 1 – 80
Art. II.	Definitions. §§ 8-81 – 8-83
Art III.	Flood Resistant Development §§ 8-84 – 8-109
Art. IV.	Technical Amendments. § 8-110

## **ARTICLE I. ADMINISTRATION**

### **DIVISION 1. GENERAL**

**Sec. 1. Title.** This ordinance and these regulations shall be known as the *Floodplain Management Ordinance* of the Town of Mangonia Park.

**Sec. 2. Scope.** The provisions of this ordinance shall apply to all development that is wholly within or partially within any flood hazard area within the Town of Mangonia Park, including but not limited to the subdivision of land; filling, grading, and other site improvements and utility installations; construction, alteration, remodeling, enlargement, improvement, replacement, repair, relocation or demolition of buildings, structures, and facilities that are exempt from the *Florida Building Code*; placement, installation, or replacement of manufactured homes and manufactured buildings; installation or replacement of tanks; placement of recreational vehicles; installation of swimming pools; and any other development.

**Sec. 3. Intent.** The purposes of this ordinance and the flood load and flood resistant construction requirements of the *Florida Building Code* are to establish minimum requirements to safeguard the public health, safety, and general welfare and to minimize public and private losses due to flooding through regulation of development in flood hazard areas to:

1. Minimize unnecessary disruption of commerce, access and public service during times of flooding;
2. Require the use of appropriate construction practices in order to prevent or minimize future flood damage;
3. Manage filling, grading, dredging, mining, paving, excavation, drilling operations, storage of equipment or materials, and other development which may increase flood damage or erosion potential;
4. Manage the alteration of flood hazard areas, watercourses, and shorelines to minimize the impact of development on the natural and beneficial functions of the floodplain;
5. Minimize damage to public and private facilities and utilities;
6. Help maintain a stable tax base by providing for the sound use and development of flood hazard areas;
7. Minimize the need for future expenditure of public funds for flood control projects and response to and recovery from flood events; and
8. Meet the requirements of the National Flood Insurance Program for community participation as set forth in the Title 44 Code of Federal Regulations, Section 59.22.

**Sec. 4. Coordination with the *Florida Building Code*.** Pursuant to the requirement established in Ch. 553, F.S. that local communities administer and enforce the *Florida Building Code*, the Town Council of the Town of Mangonia Park does hereby acknowledge that the *Florida Building Code* contains certain provisions that apply to the design and construction of buildings and structures in flood hazard areas. Therefore, this ordinance is intended to be administered and enforced in conjunction with the *Florida*

*Building Code.* Where section numbers of the *Florida Building Code* are cited, the section numbers refer to the 2010 *Florida Building Code*. If cited section numbers are changed in subsequent editions of the code, then the section numbers shall refer to comparable sections. Where cited, ASCE 24 refers to the edition of the standard that is referenced by the *Florida Building Code*.

**Sec. 5. Warning.** The degree of flood protection required by this ordinance and the *Florida Building Code*, as amended by the Town of Mangonia Park, is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur. Flood heights may be increased by man-made or natural causes. This ordinance does not imply that land outside of mapped special flood hazard areas, or that uses permitted within such flood hazard areas, will be free from flooding or flood damage. The flood hazard areas and base flood elevations contained in the Flood Insurance Study and shown on the Flood Insurance Rate Maps and the requirements of Title 44 C.F.R., Sections 59 and 60 may be revised by the Federal Emergency Management Agency, requiring the Town of Mangonia Park to revise these regulations to remain eligible for participation in the National Flood Insurance Program. No guaranty of vested use, existing use, or future use is implied or expressed by compliance with this ordinance.

**Sec. 6. Disclaimer of Liability.** This ordinance shall not create liability on the part of the Town of Mangonia Park or on the part of any officer, official or employee of the Town of Mangonia Park for any flood damage that results from reliance on this ordinance or any administrative decision lawfully made thereunder.

**Secs. 7 -10. Reserved.**

## **DIVISION 2. APPLICABILITY**

**Sec. 11. General.** Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall be applicable. Where, in any specific case, requirements of this ordinance conflict with the requirements of the *Florida Building Code*, the most restrictive shall govern.

**Sec. 12. Areas to which this ordinance applies.** This ordinance shall apply to all flood hazard areas within the Town of Mangonia Park, as established in Sec. 13 of this ordinance.

**Sec. 13. Basis for establishing flood hazard areas.** The Flood Insurance Study for the Town of Mangonia Park, Palm Beach County, Florida, dated May 1, 1977 and all subsequent amendments and revisions, and the accompanying Flood Insurance Rate Maps (FIRM), and all subsequent amendments and revisions to such maps, are adopted by reference as a part of this ordinance and shall serve as the minimum basis for establishing flood hazard areas. Studies and maps that establish flood hazard areas are on file at the office of the Town Clerk.

**Sec. 14. Submission of additional data to establish flood hazard areas.** To establish flood hazard areas and base flood elevations, pursuant to Article I, Division 5 of this

ordinance, the Floodplain Administrator may require submission of additional data. Where field surveyed topography prepared by a Florida licensed professional surveyor or digital topography accepted by the community indicates that ground elevations:

1. Are below the closest applicable base flood elevation, even in areas not delineated as a special flood hazard area on a FIRM, the area shall be considered as flood hazard area and subject to the requirements of this ordinance and, as applicable, the requirements of the *Florida Building Code*.
2. Are above the closest applicable base flood elevation, the area shall be regulated as special flood hazard area unless the applicant obtains a Letter of Map Change that removes the area from the special flood hazard area.

**Sec. 15. Other laws.** The provisions of this ordinance shall not be deemed to nullify any provisions of local, state or federal law.

**Sec. 16. Abrogation and greater restrictions.** This ordinance supersedes any ordinance in effect for management of development in flood hazard areas in the Town of Mangonia Park. However, it is not intended to repeal or abrogate any existing town code including land development regulations, zoning regulations, or stormwater management regulations. In the event of a conflict between this chapter and any other town code, the more restrictive shall govern. This ordinance shall not impair any deed restriction, covenant or easement, but any land that is subject to such interests shall also be governed by this ordinance.

**Sec. 17. Interpretation.** In the interpretation and application of this ordinance, all provisions shall be:

1. Considered as minimum requirements;
2. Liberally construed in favor of the Town of Mangonia Park; and
3. Deemed neither to limit nor repeal any other powers granted under state statutes.

**Secs. 18 -20. Reserved.**

### **DIVISION 3. DUTIES AND POWERS OF THE FLOODPLAIN ADMINISTRATOR**

**Sec. 21. Designation.** The Building Official is designated as the Floodplain Administrator for the Town of Mangonia Park. The Floodplain Administrator may delegate performance of certain duties to other employees.

**Sec. 22. General.** The Floodplain Administrator is authorized and directed to administer and enforce the provisions of this ordinance. The Floodplain Administrator shall have the authority to render interpretations of this ordinance consistent with the intent and purpose of this ordinance and may establish policies and procedures in order to clarify the application of its provisions. Such interpretations, policies, and procedures shall not have the effect of waiving requirements specifically provided in this ordinance without the granting of a variance pursuant to Article I, Division 7 of this ordinance.

**Sec. 23. Applications and permits.** The Floodplain Administrator shall:

1. Review applications and plans to determine whether proposed new development will be located in flood hazard areas;
2. Review applications for modification of any existing development in flood hazard areas for compliance with the requirements of this ordinance;
3. Interpret flood hazard area boundaries where such interpretation is necessary to determine the exact location of boundaries; a person contesting the determination shall have the opportunity to appeal the interpretation;
4. Provide available flood elevation and flood hazard information;
5. Determine whether additional flood hazard data shall be obtained from other sources or shall be developed by an applicant;
6. Review applications to determine whether proposed development will be reasonably safe from flooding;
7. Issue floodplain development permits or approvals for development other than buildings and structures that are subject to the *Florida Building Code*, when compliance with this ordinance is demonstrated, or disapprove the same in the event of noncompliance; and
8. Assure that applications for building permits for buildings and structures in flood hazard areas comply with the requirements of this ordinance.

**Sec. 24. Determinations for existing buildings and structures.** For applications for building permits to improve buildings and structures, including alterations, movement, enlargement, replacement, repair, change of occupancy, additions, rehabilitations, renovations, and any other improvement of or work on such buildings and structures, the Floodplain Administrator shall:

1. Estimate the market value, or require the applicant to obtain an appraisal of the market value prepared by a qualified independent appraiser, of the building or structure before the start of construction of the proposed work; in the case of repair, the market value of the building or structure shall be the market value before the damage occurred and before any repairs are made;
2. Compare the cost to perform the improvement, the cost to repair a damaged building to its pre-damaged condition, or the combined costs of improvements and repairs, if applicable, to the market value of the building or structure;
3. Determine and document whether the proposed work constitutes substantial improvement or repair of substantial damage; and
4. Notify the applicant if it is determined that the work constitutes substantial improvement or repair of substantial damage and that compliance with the flood resistant provisions of the *Florida Building Code* and this ordinance is required.

**Sec. 25. Modifications of the strict application of the requirements of the *Florida Building Code*.** The Floodplain Administrator shall review requests submitted to the

Building Official that seek approval to modify the strict application of the flood load and flood resistant construction requirements of the *Florida Building Code* to determine whether such requests require the granting of a variance pursuant to Article I, Division 7 of this ordinance.

**Sec. 26. Coordination of notices and orders.** The Floodplain Administrator shall coordinate the issuance of all necessary notices or orders to ensure compliance with this ordinance and the flood resistant construction requirements of the *Florida Building Code*.

**Sec. 27. Inspections.** The Floodplain Administrator shall make the required inspections as specified in Article I, Division 6 of this ordinance for development that is not subject to the *Florida Building Code*. For buildings and structures subject to the *Florida Building Code*, the Building Official shall make the required inspections of structures specified in Article I, Division 6 of this ordinance and *Florida Building Code*, Building Section 110. The Floodplain Administrator shall inspect flood hazard areas to determine if development is undertaken without issuance of a permit.

**Sec. 28. Other duties of the Floodplain Administrator.** The Floodplain Administrator shall have other duties, including but not limited to:

1. Establish procedures for administering and documenting determinations of substantial improvement and substantial damage made pursuant to Sec. 24 of this ordinance;
2. Require that applicants proposing alteration of a watercourse notify adjacent communities and the Florida Division of Emergency Management, State Floodplain Management Office, and submit copies of such notifications to the Federal Emergency Management Agency (FEMA);
3. Require applicants who submit hydrologic and hydraulic engineering analyses to support permit applications to submit to FEMA the data and information necessary to maintain the Flood Insurance Rate Maps if the analyses propose to change base flood elevations, flood hazard area boundaries, or floodway designations; such submissions shall be made within 6 months of such data becoming available;
4. Review required design certifications and documentation of elevations specified by this ordinance and the *Florida Building Code* with this ordinance to determine that such certifications and documentations are complete; and
5. Notify the Federal Emergency Management Agency when the corporate boundaries of the Town of Mangonia Park are modified.

**Sec. 29. Floodplain management records.** Regardless of any limitation on the period required for retention of public records, the Floodplain Administrator shall maintain and permanently keep and make available for public inspection all records that are necessary for the administration of this ordinance and the flood resistant construction requirements of the *Florida Building Code*, including Flood Insurance Rate Maps; Letters of Change; records of issuance of permits and denial of permits; determinations of whether proposed

work constitutes substantial improvement or repair of substantial damage; required design certifications and documentation of elevations specified by the *Florida Building Code* and this ordinance; notifications to adjacent communities, FEMA, and the state related to alterations of watercourses; assurances that the flood carrying capacity of altered watercourses will be maintained; documentation related to appeals and variances, including justification for issuance or denial; and records of enforcement actions taken pursuant to this ordinance and the flood resistant construction requirements of the *Florida Building Code*. These records shall be available for public inspection at the office of the Town Clerk.

**Sec. 30. Reserved.**

**DIVISION 4. PERMITS**

**Sec. 31. Permits required.** Any owner or owner's authorized agent (hereinafter "applicant") who intends to undertake any development activity within the scope of this ordinance which is wholly within or partially within any flood hazard area shall first make application to the Floodplain Administrator, and the Building Official if applicable, and shall obtain the required permit(s) and approval(s). No such permit or approval shall be issued until compliance with the requirements of this chapter and all other applicable codes and regulations has been satisfied.

**Sec. 32. Floodplain development permits or approvals.** Floodplain development permits or approvals shall be issued pursuant to this ordinance for any development activities not subject to the requirements of the *Florida Building Code*. Depending on the nature and extent of proposed development that includes a building or structure, the Floodplain Administrator may determine that a floodplain development permit or approval is required in addition to a building permit.

**Sec. 33. Buildings, structures and facilities exempt from the *Florida Building Code*.** Pursuant to the requirements of federal regulation for the National Flood Insurance Program (44 C.F.R. Sections 59 and 60), floodplain development permits or approvals shall be required for the following buildings, structures and facilities that are exempt from the *Florida Building Code*, Building Sec. 102.2 and any further exemptions provided by law, are subject to the requirements of this ordinance:

1. Railroads and ancillary facilities associated with railroads.
2. Nonresidential farm buildings on farms, as provided in section 604.50, F.S.
3. Temporary buildings or sheds used exclusively for construction purposes.
4. Mobile or modular structures used as temporary offices.
5. Those structures or facilities of electric utilities, as defined in Sec. 366.02, F.S., which are directly involved in the generation, transmission, or distribution of electricity.
6. Chickees constructed by the Miccosukee Tribe of Indians of Florida or the Seminole Tribe of Florida. As used in this paragraph, the term "chickee" means

an open-sided wooden hut that has a thatched roof of palm or palmetto or other traditional materials, and that does not incorporate any electrical, plumbing, or other non-wood features.

7. Family mausoleums not exceeding 250 square feet in area which are prefabricated and assembled on site or preassembled and delivered on site and have walls, roofs and a floor constructed of granite, marble, or reinforced concrete.
8. Temporary housing provided by the Department of Corrections to any prisoner in the state correctional system.
9. Structures identified in Sec. 553.73(10)(k), F.S., are not exempt from the Florida Building Code if such structures are located in flood hazard areas established on the Flood Insurance Rate Maps.

**Sec. 34. Application for a permit or approval.** To obtain a floodplain development permit or approval the applicant shall first file an application in writing on a form furnished by the Town. The information provided shall:

1. Identify and describe the development to be covered by the permit or approval.
2. Describe the land on which the proposed development is to be conducted by legal description, street address or similar description that will readily identify and definitively locate the site.
3. Indicate the use and occupancy for which the proposed development is intended.
4. Be accompanied by a site plan or construction documents as specified in Article I, Division 5 of this chapter.
5. State the valuation of the proposed work.
6. Be signed by the applicant or the applicant's authorized agent.
7. Give such other data and information as required by the Floodplain Administrator.

**Sec. 35. Validity of permit or approval.** The issuance of a floodplain development permit or approval pursuant to this ordinance shall not be construed to be a permit for, or approval of, any violation of this ordinance, the *Florida Building Codes*, or any other ordinance or code of the Town. The issuance of permits based on submitted applications, construction documents, and information shall not prevent the Floodplain Administrator from requiring the correction of errors and omissions.

**Sec. 36. Expiration.** A floodplain development permit or approval shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized is suspended or abandoned for a period of 180 days after the work commences. Extensions for periods of not more than 180 days each shall be requested in writing and justifiable cause shall be demonstrated.

**Sec. 37. Suspension or revocation.** The Floodplain Administrator is authorized to suspend or revoke a floodplain development permit or approval if the permit was issued in error, on the basis of incorrect, inaccurate or incomplete information, or in violation of



this ordinance or any other ordinance, regulation or requirement of the Town.

**Sec. 38. Other permits required.** Floodplain development permits and building permits shall include a condition that all other applicable state or federal permits be obtained before commencement of the permitted development, including but not limited to the following:

1. The South Florida Water Management District;
2. Florida Department of Health for onsite sewage treatment and disposal systems; Sec. 381.0065, F.S., and Chapter 64E-6, F.A.C.;
3. Florida Department of Environmental Protection for activities subject to the Joint Coastal Permit; Sec. 161.055, F.S.;
4. Florida Department of Environmental Protection for activities that affect wetlands and alter surface water flows, in conjunction with the U.S. Army Corps of Engineers, Sec. 404 of the Clean Water Act.

**Secs. 39 – 40. Reserved.**

#### **DIVISION 5. SITE PLANS AND CONSTRUCTION DOCUMENTS**

**Sec. 41. Information for development in flood hazard areas.** The site plan or construction documents for any development subject to the requirements of this ordinance shall be drawn to scale and shall include, as applicable to the proposed development:

1. Delineation of flood hazard areas, floodway boundaries and flood zone(s), base flood elevation(s) and ground elevation(s), if necessary for review of the proposed development.
2. Where flood hazard areas, base flood elevations, or floodway data are not included on the FIRM or in the Flood Insurance Study, they shall be established in accordance with Sec. 42 of this ordinance.
3. Where the parcel on which the proposed development will take place will have more than 50 lots or is larger than 5 acres and the base flood elevations are not included on the FIRM or in the Flood Insurance Study, such elevations shall be established in accordance Sec. 42 (1) or (2) of this ordinance.
4. Location of the proposed activity and proposed structures, and locations of existing buildings and structures.
5. Location, extent, amount, and proposed final grades of any filling, grading, or excavation.
6. Where the placement of fill is proposed, the amount, type, and source of fill material; compaction specifications; a description of the intended purpose of the fill areas; and evidence that the proposed fill areas are the minimum necessary to achieve the intended purpose.

Z Existing and proposed alignment of any proposed alteration of a watercourse.

The Floodplain Administrator is authorized to waive the submission of site plans, construction documents, and other data not required to be prepared by a registered design professional if it is found that the nature of the proposed development is such that the review of such submissions is not necessary to ascertain compliance with this chapter.

**Sec. 42. Information in flood hazard areas without base flood elevations (approximate Zone A).** Where flood hazard areas are delineated on the FIRM and base flood elevation data have not been provided, the Floodplain Administrator shall:

1. Obtain, review, and provide to applicants base flood elevation data available from a federal or state agency or other source or require the applicant to obtain and use base flood elevation data available from a federal or state agency or other source; or
2. Require the applicant to develop base flood elevation data prepared in accordance with currently accepted engineering practices; or
3. Where base flood elevation data are not available from another source, the base flood elevation is two (2) feet above the highest adjacent grade at the location of the development, provided there is no evidence indicating flood depths have been or may be greater than two (2) feet.
4. Where the base flood elevation data are to be used to support a Letter of Map Change from FEMA, advise the applicant that the analyses shall be prepared by a Florida licensed engineer in a format required by FEMA, and that it shall be the responsibility of the applicant to satisfy the submittal requirements and pay the processing fees.

**Sec. 43. Additional analyses and certifications.** As applicable to the location and nature of the proposed development activity, and in addition to the requirements of this division, the applicant shall have the following analyses prepared and sealed by a Florida licensed engineer for submission with the site plan and construction documents:

1. For development activities proposed to be located in a regulatory floodway, a floodway encroachment analysis that demonstrates that the encroachment of the proposed development will not cause any increase in base flood elevations; where the applicant proposes to undertake development activities that do increase base flood elevations, the applicant shall submit such analysis to FEMA as specified in Sec. 44 of this ordinance and shall submit the Conditional Letter of Map Revision, if issued by FEMA, with the site plan and construction documents.
2. For development activities proposed to be located in a riverine flood hazard area for which base flood elevations are included in the Flood Insurance Study or on the FIRM and floodways have not been designated, a floodway encroachment analysis which demonstrates that the cumulative effect of the proposed development, when combined with all other existing and anticipated flood hazard area encroachments, will not increase the base flood elevation more than one (1) foot at any point within the community. This requirement does not apply in

isolated flood hazard areas not connected to a riverine flood hazard area or in flood hazard areas identified as Zone AO or Zone AH.

3. For alteration of a watercourse, an engineering analysis prepared in accordance with standard engineering practices which demonstrates that the flood-carrying capacity of the altered or relocated portion of the watercourse will not be decreased, and certification that the altered watercourse shall be maintained in a manner which preserves the channel's flood-carrying capacity; the applicant shall submit the analysis to FEMA as specified in Section 44 of this ordinance.

**Sec. 44. Submission of additional data.** When additional hydrologic, hydraulic or other engineering data, studies, and additional analyses are submitted to support an application, the applicant has the right to seek a Letter of Map Change from FEMA to change the base flood elevations, change floodway boundaries, or change boundaries of flood hazard areas shown on FIRMs, and to submit such data to FEMA for such purposes. The analyses shall be prepared by a Florida licensed engineer in a format required by FEMA. Submittal requirements and processing fees shall be the responsibility of the applicant.

**Secs. 45 – 50. Reserved.**

## **DIVISION 6. INSPECTIONS**

**Sec. 51. General.** Development for which a permit or approval is required shall be subject to inspection.

**Sec. 52. Development other than buildings and structures.** The Floodplain Administrator shall inspect all development to determine compliance with the requirements of this ordinance and the conditions of issued floodplain development permits or approvals.

**Sec. 53. Buildings and structures.** The Building Official shall inspect buildings and structures subject to the *Florida Building Code* to determine compliance with the flood load and flood resistant construction requirements of issued building permits and the *Florida Building Code*. The Floodplain Administrator shall inspect buildings and structures exempt from the *Florida Building Code* to determine compliance with the requirements of this ordinance and the conditions of issued floodplain development permits or approvals.

**Sec. 54. Buildings and structures exempt from the *Florida Building Code*, lowest floor inspection.** Upon placement of the lowest floor, including basement, and prior to further vertical construction, the owner of a building or structure exempt from the *Florida Building Code*, or the owner's authorized agent, shall submit to the Floodplain Administrator:

1. If a design flood elevation was used to determine the required elevation of the lowest floor, the certification of elevation of the lowest floor prepared and sealed by a Florida licensed professional surveyor; or
2. If the elevation used to determine the required elevation of the lowest floor was

determined in accordance with Sec. 42 of this ordinance, the documentation of height of the lowest floor above highest adjacent grade, prepared by the owner or the owner's authorized agent.

**Sec. 55. Buildings and structures exempt from the *Florida Building Code*, final inspection.** As part of the final inspection, the owner or owner's authorized agent shall submit to the Floodplain Administrator a final certification of elevation of the lowest floor or final documentation of the height of the lowest floor above the highest adjacent grade; such certifications and documentations shall be prepared as specified in Sec. 54 of this ordinance.

**Sec. 56. Manufactured homes.** The Floodplain Administrator shall inspect manufactured homes that are installed or replaced in flood hazard areas to determine compliance with the requirements of this ordinance and the conditions of the issued permit. Upon placement of a manufactured home, certification of the elevation of the lowest floor shall be submitted to the Floodplain Administrator.

**Secs. 57 – 60. Reserved.**

## **DIVISION 7. VARIANCES AND APPEALS**

**Sec. 61. General.** Pursuant to section 553.73(5), F.S., the Board of Adjustment shall hear and decide on requests for appeals and requests for variances from the strict application of the requirements of this ordinance and the flood resistant construction requirements of the *Florida Building Code*.

**Sec. 62. Appeals.** The Board of Adjustment shall hear and decide appeals when it is alleged there is an error in any requirement, decision, or determination made by the Floodplain Administrator or the Building Official in the administration and enforcement of this ordinance or the flood load and flood resistant construction requirements of the *Florida Building Code*. Any person aggrieved by the decision of the Board of Adjustment may appeal such decision to the Circuit Court, as provided by Florida Statutes.

**Sec. 63. Limitations on authority to grant variances.** The Board of Adjustment shall base its decisions on variances on technical justifications submitted by applicants, the considerations for issuance in Sec. 67 of this ordinance, the conditions of issuance set forth in Sec. 68 of this ordinance, and the comments and recommendations of the Floodplain Administrator and the Building Official. The Board of Adjustment has the right to attach such conditions as it deems necessary to further the purposes and objectives of this ordinance.

**Sec. 64. Restrictions in floodways.** A variance shall not be issued for any proposed development in a floodway if any increase in base flood elevations would result, as evidenced by the applicable analyses and certifications required in Sec. 43 of this ordinance.

**Sec. 65. Historic buildings.** A variance is authorized to be issued for the repair, improvement, or rehabilitation of a historic building that is determined eligible for the exception to the flood resistant construction requirements of the *Florida Building Code, Existing Building*, Chapter 11 Historic Buildings, upon a determination that the proposed repair, improvement, or rehabilitation will not preclude the building's continued designation as a historic building and the variance is the minimum necessary to preserve the historic character and design of the building. If the proposed work precludes the building's continued designation as a historic building, a variance shall not be granted and the building and any repair, improvement, and rehabilitation shall be subject to the requirements of the *Florida Building Code*.

**Sec. 66. Functionally dependent uses.** A variance is authorized to be issued for the construction or substantial improvement necessary for the conduct of a functionally dependent use, as defined in this ordinance, provided the variance meets the requirements of Sec. 64 of this ordinance, is the minimum necessary considering the flood hazard, and all due consideration has been given to use of methods and materials that minimize flood damage during occurrence of the base flood.

**Sec. 67. Considerations for issuance of variances.** In reviewing requests for variances, the Board of Adjustment shall consider all technical evaluations, all relevant factors, all other applicable provisions of the *Florida Building Code*, this ordinance, and the following:

1. The danger that materials and debris may be swept onto other lands resulting in further injury or damage;
2. The danger to life and property due to flooding or erosion damage;
3. The susceptibility of the proposed development, including contents, to flood damage and the effect of such damage on current and future owners;
4. The importance of the services provided by the proposed development to the Town;
5. The availability of alternate locations for the proposed development that are subject to lower risk of flooding or erosion;
6. The compatibility of the proposed development with existing and anticipated development;
7. The relationship of the proposed development to the comprehensive plan and floodplain management program for the area;
8. The safety of access to the property in times of flooding for ordinary and emergency vehicles;
9. The expected heights, velocity, duration, rate of rise and debris and sediment transport of the floodwaters and the effects of wave action, if applicable, expected at the site; and

10. The costs of providing governmental services during and after flood conditions including maintenance and repair of public utilities and facilities such as sewer, gas, electrical and water systems, streets and bridges.

**Sec. 8-68. Conditions for issuance of variances.** Variances shall be issued only upon:

1. Submission by the applicant, of a showing of good and sufficient cause that the unique characteristics of the size, configuration, or topography of the site render any provision of this ordinance or the elevation standards of the *Florida Building Code* inappropriate;
2. Determination by the Board of Adjustment that:
  - a. Failure to grant the variance would result in exceptional hardship due to the physical characteristics of the land that render the lot undevelopable; increased costs to satisfy the requirements or inconvenience do not constitute hardship;
  - b. The granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, nor create nuisances, cause fraud on or victimization of the public or conflict with existing local laws and ordinances; and
  - c. The variance is the minimum necessary, considering the flood hazard, to afford relief;
3. Receipt of a signed statement by the applicant that the variance, if granted, shall be recorded in the Office of the Clerk of the Court in such a manner that it appears in the chain of title of the affected parcel of land; and
4. If the request is for a variance to allow construction of the lowest floor of a building, or substantial improvement of a building, below the elevation required by the *Florida Building Code* or required by this ordinance, a copy in the record of a written notice from the Floodplain Administrator to the applicant for the variance, specifying the difference between the base flood elevation and the proposed elevation of the lowest floor, stating that the cost of federal flood insurance will be commensurate with the increased risk resulting from the reduced floor elevation (up to amounts as high as \$25 for \$100 of insurance coverage), and stating that construction below the base flood elevation increases risks to life and property.

**Secs. 69 – 70. Reserved.**

## **DIVISION 8. VIOLATIONS**

**Sec. 71. Violations.** Any construction or development in a flood hazard area that is performed without an issued permit, that is in conflict with an issued permit, or that does not fully comply with this ordinance or the *Florida Building Code*, as applicable, shall be deemed a violation of this ordinance. A building or structure without the documentation of elevation of the lowest floor, other required design certifications, or other evidence of compliance required by this chapter or the *Florida Building Code* is presumed to be a

violation until such time as that documentation is provided.

**Sec. 72. Authority.** For development that is not within the scope of the *Florida Building Code* but that is regulated by this ordinance and that is determined to be a violation, the Floodplain Administrator is authorized to serve notices of violation or stop work orders to owners of the property involved, to the owner's agent, or to the person or persons performing the work.

**Sec. 73. Unlawful continuance.** Any person who shall continue any work after having been served with a notice of violation or a stop work order, except such work as that person is directed to perform to remove or remedy a violation or unsafe condition, shall be subject to code enforcement and penalties as set forth in *Chapter 162 F.S.*, Part I, and Chapter 2 of the Town's code.

**Secs. 74 – 80. Reserved.**

## **ARTICLE II. DEFINITIONS**

### **DIVISION 1. GENERAL**

**Sec. 81. Terms defined in the *Florida Building Code*.** Where terms are not defined in this ordinance and are defined in the *Florida Building Code*, such terms shall have the meanings ascribed to them in that code.

**Sec. 82. Terms not defined.** Where terms are not defined in this chapter or the *Florida Building Code*, such terms shall have ordinarily accepted meanings such as the context implies.

### **DIVISION 2. DEFINITIONS**

**Sec. 83. Definitions.** Unless otherwise expressly stated, the following words and terms shall, for the purposes of this chapter, have the meanings shown in this section.

**Alteration of a watercourse.** A dam, impoundment, channel relocation, change in channel alignment, channelization, or change in cross-sectional area of the channel or the channel capacity, or any other form of modification which may alter, impede, retard or change the direction and/or velocity of the riverine flow of water during conditions of the base flood.

**Appeal.** A request for a review of the Floodplain Administrator or Building Official's interpretation of any provision of this ordinance or a request for a variance.

**ASCE 24.** A standard titled *Flood Resistant Design and Construction* that is referenced by the *Florida Building Code*. ASCE 24 is developed and published by the American Society of Civil Engineers, Reston, VA.

**Base flood.** A flood having a 1-percent chance of being equaled or exceeded in any given year. [Also defined in FBC, B, Section 1612.2.] The base flood is commonly

referred to as the "100-year flood" or the "1-percent-annual chance flood."

**Base flood elevation.** The elevation of the base flood, including wave height, relative to the National Geodetic Vertical Datum (NGVD), North American Vertical Datum (NAVD) or other datum specified on the Flood Insurance Rate Map (FIRM). [Also defined in FBC, B, Section 1612.2.]

**Basement.** The portion of a building having its floor subgrade (below ground level) on all sides. [Also defined in FBC, B, Section 1612.2.]

**Building Official.** The officer or other designated authority, or a duly authorized representative, charged with the administration and enforcement of the *Florida Building Code*, within the Town of Mangonia Park. [Also defined in FBC, B, Section 1612.2.]

**Building permit.** An official document or certificate issued by the building official which authorizes performance of specific activities that are determined to be compliant with the *Florida Building Code*.

**Design flood.** The flood associated with the greater of the following two areas: [Also defined in FBC, B, Section 1612.2.]

1. Area with a floodplain subject to a 1-percent or greater chance of flooding in any year; or
2. Area designated as a flood hazard area on the community's flood hazard map, or otherwise legally designated.

**Design flood elevation.** The elevation of the "design flood," including wave height, relative to the datum specified on the Town's legally designated flood hazard map. In areas designated as Zone AO, the design flood elevation shall be the elevation of the highest existing grade of the building's perimeter plus the depth number (in feet) specified on the flood hazard map. In areas designated as Zone AO where the depth number is not specified on the map, the depth number shall be taken as being equal to 2 feet. [Also defined in FBC, B, Section 1612.2.]

**Development.** Any man-made change to improved or unimproved real estate, including but not limited to, buildings or other structures, tanks, temporary structures, temporary or permanent storage of equipment or materials, mining, dredging, filling, grading, paving, excavations, drilling operations or any other land disturbing activities.

**Encroachment.** The placement of fill, excavation, buildings, permanent structures or other development into a flood hazard area which may impede or alter the flow capacity of riverine flood hazard areas.

**Existing building and existing structure.** Any buildings and structures for which the "start of construction" commenced before the effective date of March 1, 1978. [Also defined in FBC, B, Section 1612.2.]



**Federal Emergency Management Agency (FEMA).** The federal agency that, in addition to carrying out other functions, administers the National Flood Insurance Program.

**Flood or flooding.** A general and temporary condition of partial or complete inundation of normally dry land from: [Also defined in FBC, B, Section 1612.2.]

1. The overflow of inland or tidal waters.
2. The unusual and rapid accumulation or runoff of surface waters from any source.

**Flood damage-resistant materials.** Any construction material capable of withstanding direct and prolonged contact with floodwaters without sustaining any damage that requires more than cosmetic repair. [Also defined in FBC, B, Section 1612.2.]

**Flood hazard area.** The greater of the following two areas: [Also defined in FBC, B, Section 1612.2.]

1. The area within a floodplain subject to a 1-percent or greater chance of flooding in any year.
2. The area designated as a flood hazard area on the Town's flood hazard map, or otherwise legally designated.

**Flood Insurance Rate Map (FIRM).** The official map of the Town of Mangonia Park on which the Federal Emergency Management Agency has delineated both special flood hazard areas and the risk premium zones applicable to the city. [Also defined in FBC, B, Section 1612.2.]

**Flood Insurance Study (FIS).** The official report provided by the Federal Emergency Management Agency that contains the Flood Insurance Rate Map, the Flood Boundary and Floodway Map (if applicable), the water surface elevations of the base flood, and supporting technical data. [Also defined in FBC, B, Section 1612.2.]

**Floodplain Administrator.** The office or position designated and charged with the administration and enforcement of this ordinance (may be referred to as the Floodplain Manager).

**Floodplain development permit or approval.** An official document or certificate issued by the floodplain administrator, or other evidence of approval or concurrence, which authorizes performance of specific development activities that are located in flood hazard areas and that are determined to be compliant with this ordinance.

**Floodway.** The channel of a river or other riverine watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. [Also defined in FBC, B, Section 1612.2.]

**Floodway encroachment analysis.** An engineering analysis of the impact that a proposed encroachment into a floodway is expected to have on the floodway boundaries

and base flood elevations; the evaluation shall be prepared by a qualified Florida licensed engineer using standard engineering methods and models.

**Florida Building Code.** The family of codes adopted by the Florida Building Commission, including: *Florida Building Code, Building*; *Florida Building Code, Residential*; *Florida Building Code, Existing Building*; *Florida Building Code, Mechanical*; *Florida Building Code, Plumbing*; *Florida Building Code, Fuel Gas*.

**Functionally dependent use.** A use which cannot perform its intended purpose unless it is located or carried out in close proximity to water, including only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities; the term does not include long-term storage or related manufacturing facilities.

**Highest adjacent grade.** The highest natural elevation of the ground surface prior to construction next to the proposed walls or foundation of a structure.

**Historic structure.** Any structure that is determined eligible for the exception to the flood hazard area requirements of the *Florida Building Code, Existing Building*, Chapter 11 Historic Buildings.

**Letter of Map Change (LOMC).** An official determination issued by FEMA that amends or revises an effective Flood Insurance Rate Map or Flood Insurance Study. Letters of Map Change include:

Letter of Map Amendment (LOMA): An amendment based on technical data showing that a property was incorrectly included in a designated special flood hazard area. A LOMA amends the current effective Flood Insurance Rate Map and establishes that a specific property, portion of a property, or structure is not located in a special flood hazard area.

Letter of Map Revision (LOMR): A revision based on technical data that may show changes to flood zones, flood elevations, special flood hazard area boundaries and floodway delineations, and other planimetric features.

Letter of Map Revision Based on Fill (LOMR-F): A determination that a structure or parcel of land has been elevated by fill above the base flood elevation and is, therefore, no longer located within the special flood hazard area. In order to qualify for this determination, the fill must have been permitted and placed in accordance with the Town's floodplain management regulations.

Conditional Letter of Map Revision (CLOMR): A formal review and comment as to whether a proposed flood protection project or other project complies with the minimum NFIP requirements for such projects with respect to delineation of special flood hazard areas. A CLOMR does not revise the effective Flood Insurance Rate Map or Flood Insurance Study; upon submission and approval of certified as-built documentation, a Letter of Map Revision may be issued by FEMA to revise the effective FIRM.

**Light-duty truck.** As defined in 40 C.F.R. 86.082-2, any motor vehicle rated at 8,500 pounds Gross Vehicular Weight Rating or less which has a vehicular curb weight of

6,000 pounds or less and which has a basic vehicle frontal area of 45 square feet or less, which is:

1. Designed primarily for purposes of transportation of property or is a derivation of such a vehicle, or
2. Designed primarily for transportation of persons and has a capacity of more than 12 persons; or
3. Available with special features enabling off-street or off-highway operation and use.

**Lowest floor.** The floor of the lowest enclosed area of a building or structure, including basement, but excluding any unfinished or flood-resistant enclosure, usable solely for vehicle parking, building access or limited storage provided that such enclosure is not built so as to render the structure in violation of the *Florida Building Code* or ASCE 24. [Also defined in FBC, B, Section 1612.2.]

**Manufactured home.** A structure, transportable in one or more sections, which is eight (8) feet or more in width and greater than four hundred (400) square feet, and which is built on a permanent, integral chassis and is designed for use with or without a permanent foundation when attached to the required utilities. The term "manufactured home" does not include a "recreational vehicle" or "park trailer." [Also defined in 15C-1.0101, F.A.C.]

**Market value.** The price at which a property will change hands between a willing buyer and a willing seller, neither party being under compulsion to buy or sell and both having reasonable knowledge of relevant facts. As used in this ordinance, the term refers to the market value of buildings and structures, excluding the land and other improvements on the parcel. Market value may be established by a qualified independent appraiser, Actual Cash Value (replacement cost depreciated for age and quality of construction), or tax assessment value adjusted to approximate market value by a factor provided by the Property Appraiser.

**New construction.** For the purposes of administration of this ordinance and the building code, structures for which the "start of construction" commenced on or after the date of the effective date of the Town's initial FIRM or after March 1, 1978, whichever is later, and includes any subsequent improvements to such structures.

**Nonresidential.** Any building or structure or portion thereof that is not classified residential in accordance with the *Florida Building Code, Building* (Residential Group R or Institutional Group I) and ASCE 24. [Also see definition in ASCE 24.]

**Park Trailer.** A transportable unit which has a body width not exceeding fourteen (14) feet and which is built on a single chassis and is designed to provide seasonal or temporary living quarters when connected to utilities necessary for operation of installed fixtures and appliances. [Defined in 15C-1.0101, F.A.C.]

**Recreational vehicle.** A vehicle, including a park trailer, which is: [Defined in Sec. 320.01(b), F.S.] built on a single chassis, and is four hundred (400) square feet or less

when measured at the largest horizontal projection, and is designed to be self-propelled or permanently towable by a light duty truck, and is designed primarily not for use as a permanent dwelling but as a temporary living quarters for recreational, camping, travel or seasonal use.

**Special flood hazard area.** An area in the floodplain subject to a 1 percent or greater chance of flooding in any given year. Special flood hazard areas are shown on FIRMs as Zone A, AO, A1-A30, AE, A99, AH, V1-V30, VE or V. The term also includes areas shown on other flood hazard maps, if such maps are adopted by the Town of Mangonia Park or otherwise legally designated. [Also defined in FBC, B Section 1612.2.]

**Start of construction.** The date of issuance for new construction and substantial improvements to existing structures, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement is within 180 days of the date of the issuance. The actual start of construction means either the first placement of permanent construction of a building (including a manufactured home) on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns.

Permanent construction does not include land preparation (such as clearing, grading, or filling), the installation of streets or walkways, excavation for a basement, footings, piers, or foundations, the erection of temporary forms or the installation of accessory buildings such as garages or sheds not occupied as dwelling units or not part of the main buildings. For a substantial improvement, the actual "start of construction" means the first alteration of any wall, ceiling, floor or other structural part of a building, whether or not that alteration affects the external dimensions of the building. [Also defined in FBC, B Section 1612.2.]

**Substantial damage.** Damage of any origin sustained by a building or structure whereby the cost of restoring the building or structure to its before-damaged condition would equal or exceed 50 percent of the market value of the building or structure before the damage occurred. [Also defined in FBC, B Section 1612.2.]

**Substantial improvement.** Any repair, reconstruction, rehabilitation, addition, or other improvement of a building or structure, the cost of which equals or exceeds 50 percent of the market value of the building or structure before the improvement or repair is started. If the structure has incurred "substantial damage," any repairs are considered substantial improvement regardless of the actual repair work performed. The term does not, however, include either: [Also defined in FBC, B, Section 1612.2.]

1. Any project for improvement of a building required to correct existing health, sanitary, or safety code violations identified by the building official and that are the minimum necessary to assure safe living conditions.
2. Any alteration of a historic structure provided the alteration will not preclude the structure's continued designation as a historic structure and the alteration is approved by variance issued pursuant to this ordinance.

**Variance.** A grant of relief from the requirements of this ordinance, or the flood load and

flood resistant construction requirements of the *Florida Building Code*, which permits construction in a manner that would not otherwise be permitted by this ordinance or the *Florida Building Code*.

**Watercourse.** A river, creek, stream, channel or other topographic feature in, on, through, or over which water flows at least periodically.

### **ARTICLE III. FLOOD RESISTANT DEVELOPMENT**

#### **DIVISION 1. BUILDINGS AND STRUCTURES**

**Sec. 84. Design and construction of buildings and structures exempt from the *Florida Building Code*.** Pursuant to Sec. 33 of this ordinance, buildings, structures, and facilities that are exempt from the *Florida Building Code*, including substantial improvement or repair of substantial damage of such buildings, structures and facilities, shall be designed and constructed in accordance with the flood load and flood resistant construction requirements of ASCE 24. Structures exempt from the *Florida Building Code* that are not walled and roofed buildings shall comply with the requirements of division 6 of this article.

#### **DIVISION 2. SUBDIVISIONS**

**Sec. 85. Minimum requirements.** Subdivision proposals shall be reviewed to determine that:

1. Such proposals are consistent with the need to minimize flood damage and will be reasonably safe from flooding;
2. All public utilities and facilities such as sewer, gas, electric, communications, and water systems are located and constructed to minimize or eliminate flood damage; and
3. Adequate drainage is provided to reduce exposure to flood hazards.

**Sec. 86. Subdivision plats.** Where any portion of a proposed subdivision lies within a flood hazard area, the following shall be required:

1. Delineation of flood hazard areas, floodway boundaries and flood zones, and design flood elevations, as appropriate, shall be shown on preliminary plats and final plats;
2. Where the subdivision has more than 50 lots or is larger than 5 acres and base flood elevations are not included on the FIRM, the information required in Sec. 8-42 of this ordinance; and
3. Compliance with the site improvement and utilities requirements of Sec. 89 through Sec. 92 of this ordinance.

#### **DIVISION 3. SITE IMPROVEMENTS, UTILITIES AND LIMITATIONS**

**Sec. 87. Minimum requirements.** All proposed new development shall be reviewed to determine that:

1. Such proposals are consistent with the need to minimize flood damage and will be reasonably safe from flooding;
2. All public utilities and facilities such as sewer, gas, electric, communications, and water systems are located and constructed to minimize or eliminate flood damage; and
3. Adequate drainage is provided to reduce exposure to flood hazards.

**Sec. 88. Sanitary sewage facilities.** All new and replacement sanitary sewage facilities, private sewage treatment plants (including all pumping stations and collector systems), and on-site waste disposal systems shall be designed in accordance with the standards for onsite sewage treatment and disposal systems in Chapter 64E-6, F.A.C. and ASCE 24 Chapter 7 to minimize or eliminate infiltration of floodwaters into the facilities and discharge from the facilities into flood waters, and impairment of the facilities and systems.

**Sec. 89. Water supply facilities.** All new and replacement water supply facilities shall be designed in accordance with the water well construction standards in Chapter 62-532.500, F.A.C. and ASCE 24 Chapter 7 to minimize or eliminate infiltration of floodwaters into the systems.

**Sec. 90. Limitations on sites in regulatory floodways.** Development, site improvements, and land disturbing activity involving fill or regrading shall not be authorized in the regulatory floodway unless the floodway encroachment analysis required in Sec. 43 of this ordinance demonstrates that the proposed development or land disturbing activity will not result in any increase in the base flood elevation.

**Sec. 91. Limitations on placement of fill.** Subject to the limitations of this ordinance, fill shall be designed to be stable under conditions of flooding including rapid rise and rapid drawdown of floodwaters, prolonged inundation, and protection against flood-related erosion and scour. In addition to these requirements, if intended to support buildings and structures (Zone A only), fill shall comply with the requirements of the *Florida Building Code*.

#### **DIVISION 4. MANUFACTURED HOMES**

**Sec. 92. General.** All manufactured homes installed in flood hazard areas shall be installed by an installer that is licensed pursuant to Sec. 320.8249, F.S., and shall comply with the requirements of Chapter 15C-1, F.A.C. and the requirements of this ordinance.

**Sec. 93. Foundations.** All new manufactured homes and replacement manufactured homes installed in flood hazard areas shall be installed on permanent, reinforced foundations that:

1. In flood hazards areas (Zone A) other than coastal high hazard areas, are designed in accordance the foundation requirements of the *Florida Building Code, Residential* Section R322.2 and this chapter.

2. In floodways, are designed in accordance with ASCE 24.
3. In coastal high hazard areas (Zone V), are designed in accordance with the foundation requirements of the *Florida Building Code, Residential* Section R322.3 and this chapter.

**Sec. 94. Anchoring.** All new manufactured homes and replacement manufactured homes shall be installed using methods and practices which minimize flood damage and shall be securely anchored to an adequately anchored foundation system to resist flotation, collapse or lateral movement. Methods of anchoring include, but are not limited to, use of over-the-top or frame ties to ground anchors. This anchoring requirement is in addition to applicable state and local anchoring requirements for wind resistance.

**Sec. 95. Elevation.** Manufactured homes that are placed, replaced, or substantially improved shall be elevated such that the bottom of the frame is at or above the elevation required, as applicable to the flood hazard area, in the *Florida Building Code, Residential* Section R322.2 (Zone A) or Section R322.3 (Zone V).

**Sec. 96. Enclosures.** Fully enclosed areas below elevated manufactured homes shall comply with the requirements of the *Florida Building Code, Residential* Section R322 for such enclosed areas, as applicable to the flood hazard area.

**Sec. 97. Utility equipment.** Utility equipment that serves manufactured homes, including electric, heating, ventilation, plumbing, and air conditioning equipment and other service facilities, shall comply with the requirements of the *Florida Building Code, Residential* Section R322, as applicable to the flood hazard area.

## DIVISION 5. TANKS

**Sec. 98. Underground tanks.** Underground tanks in flood hazard areas shall be anchored to prevent flotation, collapse or lateral movement resulting from hydrodynamic and hydrostatic loads during conditions of the design flood, including the effects of buoyancy assuming the tank is empty.

**Sec. 99. Above-ground tanks, not elevated.** Above-ground tanks that do not meet the elevation requirements of Sec. 100 of this ordinance shall:

1. Be permitted in flood hazard areas (Zone A) other than coastal high hazard areas, provided the tanks are anchored or otherwise designed and constructed to prevent flotation, collapse or lateral movement resulting from hydrodynamic and hydrostatic loads during conditions of the design flood, including the effects of buoyancy assuming the tank is empty and the effects of flood-borne debris.
2. Not be permitted in coastal high hazard areas (Zone V).

**Sec. 100. Above-ground tanks, elevated.** Above-ground tanks in flood hazard areas shall be attached to, and elevated to or above the design flood elevation on a supporting structure that is designed to prevent flotation, collapse or lateral movement during conditions of the design flood. Tank-supporting structures shall meet the foundation

requirements of the applicable flood hazard area.

**Sec. 101. Tank inlets and vents.** Tank inlets, fill openings, outlets and vents shall be:

1. At or above the design flood elevation or fitted with covers designed to prevent the inflow of floodwater or outflow of the contents of the tanks during conditions of the design flood; and
2. Anchored to prevent lateral movement resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy, during conditions of the design flood.

## **DIVISION 6. OTHER DEVELOPMENT**

**Sec. 102. General requirements for other development.** All development, including man-made changes to improved or unimproved real estate for which specific provisions are not specified in this ordinance or the *Florida Building Code*, shall:

1. Be located and constructed to minimize flood damage;
2. Meet the limitations of Sec. 90 of this ordinance if located in a regulated floodway;
3. Be anchored to prevent flotation, collapse or lateral movement resulting from hydrostatic loads, including the effects of buoyancy, during conditions of the design flood;
4. Be constructed of flood damage-resistant materials; and
5. Have mechanical, plumbing, and electrical systems above the design flood elevation, except that minimum electric service required to address life safety and electric code requirements is permitted below the design flood elevation provided it conforms to the provisions of the electrical part of building code for wet locations.

**Sec. 103. Fences in regulated floodways.** Fences in regulated floodways that have the potential to block the passage of floodwaters, such as stockade fences and wire mesh fences, shall meet the limitations of Sec. 90 of this ordinance.

**Sec. 104. Retaining walls, sidewalks and driveways in regulated floodways.** Retaining walls and sidewalks and driveways that involve the placement of fill in regulated floodways shall meet the limitations of Sec. 90 of this ordinance.

**Sec. 105. Roads and watercourse crossings in regulated floodways.** Roads and watercourse crossings, including roads, bridges, culverts, low-water crossings and similar means for vehicles or pedestrians to travel from one side of a watercourse to the other side, that encroach into regulated floodways shall meet the limitations of Sec. 90 of this ordinance. Alteration of a watercourse that is part of a road or watercourse crossing shall meet the requirements of Sec. 43 of this ordinance.

**Section 2:** Chapter 6. Buildings and Building Regulations. of the Code of



Ordinances of the Town of Mangonia Park is hereby amended by adopting local amendments to Chapter 1 of the Florida Building Code in furtherance of the National Flood Insurance Program; providing for insertion of said administrative amendments into the previously adopted local amendments to Chapter 1 of the Florida Building Code as follows:

**101.5 Warning, flood hazards.** The degree of flood protection required by the *Florida Building Code*, as amended by the City of Atlantis, is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur. Flood heights may be increased by man-made or natural causes. This code does not imply that land outside of mapped special flood hazard areas, or that uses permitted within such flood hazard areas, will be free from flooding or flood damage.

**102.1.2 Flood hazard areas.** Pursuant to the requirements of federal regulation for the National Flood Insurance Program (44 C.F.R. Section 60.3), buildings, structures and facilities identified in Section 102.2 as exempt from the *Florida Building Code* are subject to the requirements of the City of Atlantis' local floodplain management ordinance and a floodplain development permit or approval shall be required pursuant to that regulation.

**102.2.2 Buildings or structures for residential uses moved**

**8.** The building or structure is installed on a foundation that complies with the flood resistant requirements for the new location if in a flood hazard area.

**102.7 Relocation of manufactured buildings.**

**4.** If relocated into a flood hazard area, the foundation for a manufactured building shall comply with the flood resistant requirements of the new location.

**104.1.1 Assignment of duties related to flood hazard areas.** Pursuant to Sec. 553.73(5), F.S., the building official is authorized to assign duties to enforce all or part of the flood-related code provisions to the Floodplain Administrator. The specific assigned duties shall be identified and coordinated with said agency or office.

**104.7.1 Department records for permits in flood hazard areas.** The Building Official acting as the Floodplain Administrator, shall keep the following records for building permits issued in flood hazard areas: records of issuance of permits and denial of permits; determinations of whether proposed work constitutes substantial improvement or repair of substantial damage; required design certifications and documentation of elevations specified by the *Florida Building Code*; and records of enforcement actions taken pursuant to the flood resistant construction requirements of the *Florida Building Code*.

104.10.1 Modifications of the strict application of the requirements of the Florida Building Code. The Building Official shall coordinate with the Floodplain Administrator to review requests submitted to the Building Official that seek approval to modify the strict application of the flood resistant construction requirements of the *Florida Building Code* to determine whether such requests require the granting of a variance pursuant to Section 117.

104.12 Responsibilities as the Floodplain Administrator. The Building Official acting as the Floodplain Administrator shall identify flood hazard areas; flood elevation and flood hazard information; interpret flood hazard area boundaries; determine existing building and structures; consider variance requests; and other duties set forth in the local floodplain management ordinance.

104.12.1 Determinations for existing buildings and structures in flood hazard areas. For applications for building permits for work on existing buildings and structures in flood hazard areas, including alterations, movement, enlargement, replacement, repair, change of occupancy, additions, rehabilitations, renovations, reconstructions, and any other improvement of or work on such buildings and structures, the Building Official acting as the Floodplain Administrator shall:

1. Estimate the market value, or require the applicant to obtain an appraisal of the market value prepared by a qualified independent appraiser, of the building or structure before the start of construction of the proposed work; in the case of repair, the market value of the building or structure shall be the market value before the damage occurred and before any repairs are made;
2. Compare the cost to perform the proposed improvement, or the cost to repair a damaged building to its pre-damaged condition, or the combined costs of improvements and repairs, if applicable, to the market value of the building or structure;
3. Determine and document whether the proposed work constitutes substantial improvement or repair of substantial damage; and
4. Notify the applicant if it is determined that the work constitutes substantial improvement or repair of substantial damage and that compliance with the flood resistant provisions of the *Florida Building Code* is required.

107.2.5.1 Site plan information for buildings and structures in flood hazard areas. The site plans for buildings and structures in flood hazard areas shall be drawn to scale and shall include, as applicable to the proposed development:

1. Delineation of flood hazard areas, floodway boundaries and flood zones, and the design flood elevation.
2. Where base flood elevations or floodway data are not included on the FIRM or in the Flood Insurance Study (FIS), they shall be established in accordance with Section 1612.3 or such information that may be available from federal, state, or other sources may be used provided the Floodplain Administrator determines it is applicable pursuant to the local floodplain management ordinance.

3. Where multiple flood zones are designated or where multiple base flood elevations affect the specific location of a building or structure, the more restrictive flood zone and the highest flood elevation at that location shall be identified and shall govern the design of the building or structure.
4. Surveyed elevation of the ground at the specific location of a building or structure, in relation to the datum specified on the community's legally designated flood hazard map, prepared and sealed by a Florida licensed professional surveyor.
5. Where the placement of fill is proposed; the amount, type, and source of fill material and compaction specifications; a description of the intended purpose of the fill areas; evidence that the proposed fill areas are the minimum necessary to achieve the intended purpose.

**107.2.5.2 Additional information for existing buildings and structures in flood hazard areas.** In addition to the information necessary to demonstrate compliance with the flood resistant construction requirements of the *Florida Building Code*, the site plan or construction documents for proposed work on existing buildings and structures located in whole or in part in flood hazard areas shall include:

1. If the building or structure was constructed after the date of the city's initial FIRM or after March 1, 1978, whichever is later, evidence that the proposed work will not alter any aspect of the building or structure that was required for compliance with the floodplain management requirements in effect at the time the building or structure was permitted.
2. If the proposed work is a horizontal addition, a description of the addition and whether it will be structurally connected or not structurally connected to the existing building or structure, and the nature and extent of all other work proposed for the building, if any.
3. If requested by the Building Official, documentation of the market value of the building or structure before the start of construction of the proposed improvement, or if the proposed work is repair of damage, before the damage occurred.
4. Documentation of the actual cost of all proposed work, including the cost of all work necessary to repair and restore damage to the before-damage condition, regardless of the amount of work that will be performed. The value of labor performed by the owner or volunteers shall be valued at market labor rates and the value of donated or discounted materials shall be valued at market rates.

**107.6.1 Building permits issued on the basis of an affidavit.** Pursuant to the requirements of federal regulation for participation in the National Flood Insurance Program (44 C.F.R. Sections 59 and 60), the authority granted to the Building Official to issue permits, to rely on inspections, and to accept plans and construction documents on the basis of affidavits and plans submitted pursuant to 105.14 and Section 107.6, shall not extend to the flood load and flood resistance

construction requirements of the *Florida Building Code*.

108.2.1 Flood hazard areas. Temporary structures, temporary storage, and temporarily placed tanks shall conform to the requirements of Section 1612.4.1 of the *Florida Building Code, Building*.

### 118 VARIANCES IN FLOOD HAZARD AREAS

118.1 Flood hazard areas. Pursuant to section 553.73(5), F.S., the variance procedures adopted in the local floodplain management ordinance shall apply to requests submitted to the Building Official for variances to the provisions of Section 1612.4 of the *Florida Building Code, Building* or, as applicable, the provisions of R322 of the *Florida Building Code, Residential*. This section shall not apply to Section 3109 of the *Florida Building Code, Building*.

**Section 3:** Each and every other Section and Subsection of the Town of Mangonia Park Code of Ordinances, shall remain in full force and effect as previously adopted.

**Section 4:** All ordinances or parts of ordinances in conflict be and the same are hereby repealed.

**Section 5:** Should any section or provision of this Ordinance or any portion thereof, any paragraph, sentence or word be declared by a court of competent jurisdiction to be invalid, such decision shall not affect the validity of the remainder of this Ordinance.

**Section 6:** Specific authority is hereby granted to codify this Ordinance.

**Section 7:** This Ordinance shall take effect immediately upon passage.

FIRST READING this 5<sup>th</sup> day of June, 2012.

SECOND AND FINAL READING this 3<sup>rd</sup> day of July, 2012.

### TOWN OF MANGONIA PARK

COUNCILMEMBERS:

VOTE:

William H. Albury, III

AYE

NAY

✓

Addie L. Greene  
Sarita C. Johnson  
Clarence R. McConnell  
Mark K. Trueblood

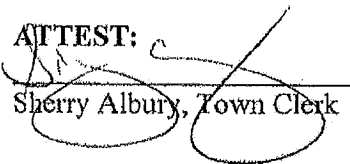
✓	_____
✓	_____
✓	_____
_____	_____



WILLIAM H. ALBURY, III, MAYOR

(SEAL)

ATTEST:

  
Sherry Albury, Town Clerk

**Section 13A. - Minimum design/construction standards for land development.**

**I.**

*General.*

(1)

All debris, trash, and excess fill shall be properly disposed of in a legal manner.

(2)

All existing structures and surrounding areas shall be protected from damage during construction and if damaged shall be replaced "in kind" with a quality equal to or greater than existed before with no recourse to the facility owner or the town.

(3)

Prior to the commencement of construction all affected utility companies shall be notified.

(4)

Prior to commencement of construction all applicable permits shall have been obtained and shall be on-site during construction.

(5)

All underground construction shall be complete prior to paving construction.

(6)

The finish floor elevation of buildings shall be the greater of:

(a)

Eighteen (18) inches above the crown of the road or

(b)

Above the one-hundred-year storm floodplain based upon drainage calculations and accepted standard engineering practice. (Also see Sections III and IV.)

(c)

FIMA elevation or SFWMD permit established elevation.

(7)

Prior to final inspection of the site for the certificate of occupancy the following material shall be submitted to the Town Hall:

(a)

An engineer's or architect's signed and sealed certificate of completion.

(b)

A copy of all tests required by the approved plans.

(c)

A set of "record drawings".

(d)

A copy of all applicable permits.

(8)

All traffic signs and pavement markings shall conform to the current "Manual of Uniform Traffic Control Devices" and FDOT specifications. All other signage shall comply with the Town of Mangonia Park's sign codes.

## II.

### *Pavement within public rights-of-way.*

(1)

Asphalt surface courses shall be a minimum of one and one-fourth ( $1\frac{1}{4}$ ) inch thick and have a minimum stability of one thousand four hundred (1,400) pounds. Asphalt and construction methods shall meet current FDOT criteria. All public facilities (i.e. town roadways, turnouts within right-of-way, etc.) shall be a Type S-1 ASCS or an asphalt with higher standard characteristics.

(2)

Base material shall at minimum be eight (8) inches shellrock or limerock and extend six (6) inches beyond the edge of pavement. Crushed concrete "washout" may be used in the same thickness provided that in-situ tests are submitted demonstrating that the material's sieve analysis and carbonate content are equivalent to limerock. Compaction specifications and construction methods shall be in accordance with current AASHTO/FDOT criteria.

(3)

Subgrades shall be a minimum of twelve (12) inches thick and extend twelve (12) inches beyond the edge of the pavement. In areas of light traffic compaction shall be specified in accordance with current AASHTO/FDOT criteria. In areas of commercial, industrial or municipal traffic the subgrade shall also be stabilized to a minimum Florida Bearing Value of fifty (50) p.s.i.

(4)

All concrete shall have a minimum twenty-eight-day strength of three thousand (3,000) p.s.i.

(5)

Concrete pavement shall at minimum be six (6) inches thick and have a twelve-inch compacted subgrade. Sidewalks shall have a minimum thickness of four (4) inches and have a six-inch compacted subgrade.

Compaction and construction methods shall be in accordance with current AASHTO/FDOT criteria and concrete design shall be in accordance with current ACI criteria.

(6)

Concrete header curbs, a minimum of twelve (12) inches in width and depth with one No. 4 reinforcing bar, shall be constructed on all driveway turnout radii for the full length of the radii on all municipal, commercial, and industrial projects. This requirement may be waived at the discretion of Council when sufficient documentation for waiver, by a Florida registered engineer, has been submitted to the town.

### III.

#### *Drainage.*

(1)

The site drainage system shall at minimum be designed to retain the rainfall from a five-year-one-hour storm event per current hydrological data and generally accepted engineering practices. Complete drainage calculations shall be submitted at the time of final site plan approval, including calculations for finish floor elevations.

(2)

The applicant shall obtain any and all other applicable drainage permits as required by federal, state, and county regulations.

(3)

If the proposed project has an outfall or connection to a non-municipal receiving water, legal proof of easements, permits etc. shall be obtained and submitted at the time of final site plan review.

(4)

Drainage pipes shall be a minimum of fifteen (15) inches in diameter and shall conform to current FDOT specifications. Pipe drainage calculations shall be included in drainage calculations mentioned in section III, subparagraph (1).

(5)

Drainage catch basins shall conform to current FDOT specifications.

(6)

Drainage system construction shall conform to current FDOT specifications.

(7)

All hydraulic conduits shall be located at minimum ten (10) feet from buildings and structures and shall not be constructed within the pavement subgrade.

(8)



Percolation trenches shall be four (4) feet in depth and four (4) feet in width, at minimum, and each end of the trench shall have a catch basin for stormwater collection and pipe maintenance. All percolation trenches shall be wrapped in filter cloth designed for this use. If a percolation system is proposed a percolation rate, soil analysis, and location of water table depth, performed by a certified testing lab, shall be submitted along with drainage calculations, at the time of final site plan review.

(9)

All endwall and rip-rap construction and materials shall meet current FDOT specifications.

(10)

Inverted siphons are not allowed.

(11)

The use of pervious paving is encouraged, subject to all applicable regulatory approvals.

#### IV.

##### *Grading.*

(1)

Site grading shall, at a minimum, retain the design storm with no discharge to adjacent properties unless legally permitted to do so. Grading shall be done so as not to adversely impact adjacent properties, and shall be directed to pervious areas.

(2)

Longitudinal paving slopes shall be no less than three thousandths (0.003) foot per foot and cross slopes for crowned roads shall be no less than one-fourth (1/4) inch per foot.

(3)

If applicable, road swales across entrances shall be designed to ensure continuous flows and not block upstream drainage. If a catch basin is within three hundred fifty (350) feet of the project boundary, catch basin elevations and existing and final swale grades shall be shown in the final site plan.

#### V.

##### *Reasonable variations.*

(1)

The town engineer shall have the authority to accept reasonable variations of the foregoing which are submitted by a Florida registered engineer and certified by same.

*(Ord. No. 1-89-485, § 1, 2-7-89)*

*Editor's note-----*

Ord. No. 1-89-485, § 1, adopted Feb. 7, 1989, amended the Code by adding provisions to be included as a new section in App. A but did not specify the manner of inclusion. Hence, inclusion of said Ord. No. 1-89-485, as App. A, § 13A was at the discretion of the editor.

**5.01.01.08** Encourage all Town residents and property owners to engage best management practices and follow the recommendations of the University of Florida /IFAS "Florida-Friendly landscape program" relative to fertilizer application.

## **Conservation**

Goal	5.01.00.00	PROTECT THE WATER QUALITY AND SUPPLY
Objective	5.01.01.00	Protect the Town wellfields and cones of influence to keep their quality at a level consistent with Palm Beach County standards at all times.
Policies	5.01.01.01	Enforce the land development regulations which prevent residential, commercial, and industrial development which would adversely affect drainage, and water quality.
	5.01.01.01	Coordinate efforts on an ongoing basis with the County's Wellfield Protection Program.
	5.01.01.02	Monitor potential industrial use hazardous waste contamination as an ongoing activity in conjunction with the Palm Beach County Department of Environmental Resource Management.
	5.01.01.03	Invoke the Town's water conservation ordinances which are consistent with South Florida Water Management Districts Plans in time of drought.
	5.01.01.04	Provide adequate drainage in all areas of Mangonia Park.
	5.01.01.05	Provide for drainage in conjunction with the ongoing roadway improvement programs outlined in the Capital Improvement Element and Traffic Circulation Element.
	5.01.01.06	Provide for adequate on-site retention in all new development.
	5.01.01.07	Conclude an agreement for positive outfall with Riviera Beach.
Goal	5.02.00.00	PRESERVE THE HIGH AIR QUALITY WHICH PRESENTLY EXISTS
Objective	5.02.01.00	Do not permit industrial uses which are known to pollute the air as the industrial areas are developed.
Policies	5.02.01.01	Enforce the land development regulations which prohibit certain types of objectionable industries.
	5.02.01.02	Monitor existing industries to eliminate point source air pollution as part of the Evaluation and Appraisal Report.

**DIVISION 1. - WATER SHORTAGE REGULATIONS**

Sec. 26-16. - Intent and purpose.

Sec. 26-17. - Definitions.

Sec. 26-18. - Application of article.

Sec. 26-19. - Water shortage plan and amendments.

Sec. 26-20. - Declaration of water shortage; water shortage emergency.

Sec. 26-21. - Enforcement.

Sec. 26-22. - Penalties.

Sec. 26-23. - Water users to accept provisions of article.

Sec. 26-24. - Declarations of emergency.

Secs. 26-25, 26-26. - Reserved.

**Sec. 26-16. - Intent and purpose.**

It is the intent and purpose of this article to protect the water resources of the Town of Mangonia Park from the harmful effects of over utilization during periods of water shortage and to allocate available water supplies by assisting the South Florida Water Management District in the implementation of its water shortage plan.

(Ord. No. 99-3, § 2, 3-16-99)

**Sec. 26-17. - Definitions.**

For the purpose of this article the following terms, phrases, words, and their derivatives shall have the meaning given herein. When not inconsistent with the context, words used in the present tense also include the future; words used in the singular also include the plural. The word "shall" is always mandatory and not merely directory.

*District* is the South Florida Water Management District.

*Person* is any person, firm, partnership, association, corporation, company, or organization of any kind.

*The town* is the Town of Mangonia Park.

*Water resource* means any and all water on or beneath the surface of the ground, including natural or artificial watercourses, lakes, ponds, or diffused surface water, and water percolating, standing or flowing beneath the surface of the ground.

*Water shortage condition* is when sufficient water is not available to meet present or anticipated needs of persons using the water resource, or when conditions are such as to require temporary reduction in total water usage within a particular area to protect the water resource from serious harm. A water shortage usually occurs due to drought.

*Water shortage emergency* means that situation when the powers which can be exercised under Part II of Chapter 40E-21, Florida Administrative Code, are not sufficient to protect the public health, safety, or welfare, or the health of animals, fish or aquatic life, or a public water supply, or commercial, industrial, agricultural, recreational, and other reasonable uses of the water supply.

(Ord. No. 99-3, § 2, 3-16-99)

**Sec. 26-18. - Application of article.**

The provisions of this article shall apply to all persons using the water resource within the geographical areas subject to the "water shortage" or "water shortage emergency" as determined by the district, whether from public or privately owned water utility systems, private wells, or private connections with surface water bodies. This article shall not apply to persons using saltwater.

(Ord. No. 99-3, § 2, 3-16-99)

**Sec. 26-19. - Water shortage plan and amendments.**

Chapter 40E-21, *Florida Administrative Code*, as same may be amended from time to time, is incorporated herein by reference as part of the Town's Code.

(Ord. No. 99-3, § 2, 3-16-99)

**Sec. 26-20. - Declaration of water shortage; water shortage emergency.**

The declaration of water shortage or water shortage emergency within all or any part of the town by the governing board or the executive director of the district shall invoke the provisions of this article. Upon such declaration all water use restrictions or other measures adopted by the district applicable to the town, or any portion thereof, shall be subject to enforcement action pursuant to this article. Any violation of the provisions of Chapter 40E-21, *Florida Administrative Code*, or any order issued pursuant thereto, shall be a violation of this article.

(Ord. No. 99-3, § 2, 3-16-99)

**Sec. 26-21. - Enforcement.**

Every police officer or sheriff having jurisdiction in the area governed by this article shall, in connection with all other duties imposed by law, diligently enforce the provisions of

this article. In addition, the town administrator may also delegate enforcement responsibility for this article to the town code enforcement department or others as deemed appropriate.

*(Ord. No. 99-3, § 2, 3-16-99)*

**Sec. 26-22. - Penalties.**

Violation of any provision of this article shall be subject to the following penalties:

(1)

*First violation:* Twenty-five dollars (\$25.00).

(2)

*Second and subsequent violations:* Fine not to exceed five hundred dollars (\$500.00); imprisonment in county jail not to exceed sixty (60) days.

Each day in violation of this article shall constitute a separate offense. In the initial stages of a water shortage or water shortage emergency, law enforcement officials may provide violators with no more than one (1) written warning. The town, in addition to the criminal sanctions contained herein, may take any other appropriate legal action, including, but not limited to, emergency injunctive action to enforce the provisions of this article.

*(Ord. No. 99-3, § 2, 3-16-99)*

**Sec. 26-23. - Water users to accept provisions of article.**

No water service shall be furnished to any person by a public or private utility unless such person agrees to accept all the provisions of this article. The acceptance of water service shall be in itself the acceptance of the provisions thereof.

*(Ord. No. 99-3, § 2, 3-16-99)*

**Sec. 26-24. - Declarations of emergency.**

In the event of a facility failure or circumstances outside the immediate jurisdiction of the South Florida Water Management District which would necessitate curtailment of water production, the town administrator or his designee may declare the existence of a water shortage condition or emergency which shall activate the provisions of this article.

*(Ord. No. 99-3, § 2, 3-16-99)*

**Secs. 26-25, 26-26. - Reserved.**

Sec. 26-27. - Short title.

Sec. 26-28. - Application.

Sec. 26-29. - Authority.

Sec. 26-30. - Purpose.

Sec. 26-31. - Definitions.

Sec. 26-32. - Irrigation restrictions.

Sec. 26-33. - Watering activities exempted.

Sec. 26-34. - Violations, penalties and enforcement.

Secs. 26-35—26-40. - Reserved.

**Sec. 26-27. - Short title.**

This division shall be known as the "Mangonia Park Water and Irrigation Conservation Ordinance."

(Ord. No. 9-91-518, § 1(1.01), 10-1-91)

**Sec. 26-28. - Application.**

All provisions of this division shall be effective within the incorporated areas of Mangonia Park and shall set restrictions, constraints and prohibitions to enhance Mangonia Park's water resources and provide a permanent water conservation measure. Unless otherwise provided, nothing in this division shall be construed to relieve any person from compliance with any applicable regulations enacted by any agency of the State of Florida having jurisdiction over water resources in the municipality.

(Ord. No. 9-91-518, § 1(1.02), 10-1-91)

**Sec. 26-29. - Authority.**

This division is adopted under the authority of Chapter 125, Florida Statutes.

(Ord. No. 9-91-518, § 1(1.03), 10-1-91)

**Sec. 26-30. - Purpose.**

The purpose of this division is to establish a regulatory framework and guidance document which will help ensure that water and landscape irrigation conservation will be consistent throughout Mangonia Park.



(Ord. No. 9-91-518, § 2, 10-1-91)

**Sec. 26-31. - Definitions.**

The following definitions shall apply within this division:

*Code enforcement officer:* Any authorized agent or employee of the town whose duty is to ensure compliance with the provisions of this division, including, but not limited to, designated employees of public safety, building, code enforcement, and public works departments.

*Impervious:* Land surfaces which do not allow the penetration of water including paved roads, sidewalks, driveways, parking lots and highly compacted areas including shell and clay.

*Low-volume irrigation system (microirrigation):* That type of equipment or irrigation device designed to provide small quantities of water on or below the soil surface as drops or tiny streams of spray through emitters or applicators placed along a water delivery line. Microirrigation includes methods or concepts such as bubbler, drip, trickler, mist, or microspray, and subsurface irrigation.

*Person:* Includes any natural person, individual, public or private corporation, firm, association, joint venture, partnership, municipality, governmental agency, political subdivision, public officer or any other entity whatsoever, or any combination of such, jointly or severally.

(Ord. No. 9-91-518, § 3, 10-1-91)

**Sec. 26-32. - Irrigation restrictions.**

(a)

Irrigation of any residential, commercial, institutional, governmental or industrial landscape areas shall be restricted to the hours of 5:00 p.m. to 9:00 a.m.

(b)

It shall be unlawful to operate or cause the operation of any irrigation system or device in a manner causing water to be wasted, including, but not limited to, unnecessary watering of impervious areas.

(c)

Upon the effective date of this division, new installations of automatic irrigation systems providing coverage of greater than one acre of irrigated area shall be equipped with a water-sensing device which will automatically discontinue irrigation during periods of rainfall.

(Ord. No. 9-91-518, § 4, 10-1-91)

**Sec. 26-33. - Watering activities exempted.**

The following activities shall be exempt from the provisions of this division:

- (1)  
Landscape irrigation by hand watering using a self-canceling nozzle or low-volume irrigation system.
- (2)  
Landscape irrigation by systems from which the sole source is treated wastewater effluent.
- (3)  
The operation of irrigation systems for system repair and maintenance.
- (4)  
Flushing of water mains required for normal water main clearance and maintenance and for maintenance of water quality; however, where practical, contractors and utilities shall direct flushed water into pervious areas, flush at the minimum rate necessary for cleaning, and disperse the water in such a manner to benefit local vegetation.
- (5)  
Landscape irrigation for purposes of watering in fungicides, insecticides and herbicides as required by the manufacturer or by federal or state laws; however, this exemption applies only to licensed pest control operators and shall be limited to manufacturer's recommendations.

*(Ord. No. 9-91-518, § 5, 10-1-91)*

**Sec. 26-34. - Violations, penalties and enforcement.**

Failure to comply with the requirements of this division shall constitute a violation of the Town Code of Ordinances, and may be punished as provided by the Town of Mangonia Park Code of Ordinances. Each day in violation of this division shall constitute a separate offense. Violations of the provisions of this division may also be punished, pursuant to Chapter 163, Florida Statutes, by a fine not to exceed two hundred fifty dollars (\$250.00) per day for a first violation, and five hundred dollars (\$500.00) per day for a repeat violation.

In addition to the sanctions contained herein, the town may take appropriate action, including, but not limited to, administrative action and requests for temporary and permanent injunctions, to enforce the provisions of this division.

Violations of this division, punishable by civil fine pursuant to Chapter 162, Florida Statutes, shall be referred to the code enforcement board.

*(Ord. No. 9-91-518, § 6, 10-1-91)*

**Secs. 26-35—26-40. - Reserved.**

**DIVISION 3. - STORMWATER CONTROL** <sup>[68]</sup>

- Sec. 26-41. - Short title.
- Sec. 26-42. - Purpose and intent.
- Sec. 26-43. - Definitions.
- Sec. 26-44. - Industrial activity—General prohibitions.
- Sec. 26-45. - Same—Specific prohibitions.
- Sec. 26-46. - Same—Administrative orders.
- Sec. 26-47. - Same—NPDES permits.
- Sec. 26-48. - Illicit discharges—General prohibitions.
- Sec. 26-49. - Same—Specific prohibitions.
- Sec. 26-50. - Same—Authorized exceptions.
- Sec. 26-51. - Same—Illicit connections.
- Sec. 26-52. - Same—Administrative order.
- Sec. 26-53. - Spills and dumping—General prohibitions.
- Sec. 26-54. - Same—Specific prohibitions.
- Sec. 26-55. - Same—Notification of spills.
- Sec. 26-56. - Same—Administrative order.
- Sec. 26-57. - Prohibition of illicit connection.
- Sec. 26-58. - Enforcement and penalties—Injunctive relief and violation.
- Sec. 26-59. - Same—Continuing violation.
- Sec. 26-60. - Same—Enforcement actions.
- Sec. 26-61. - Same—Maximum penalty.
- Sec. 26-62. - Inspections and monitoring—Authority for inspections.
- Sec. 26-63. - Authority for monitoring and sampling.
- Sec. 26-64. - Requirements for monitoring.
- Secs. 26-65—26-74. - Reserved.

**Sec. 26-41. - Short title.**

This division shall be known as the "Town of Mangonia Park Initial Stormwater Control Ordinance" and may be so cited.

(Ord. No. 4-93-532, Art. 1.0, 5-4-93)

**Sec. 26-42. - Purpose and intent.**

The purpose of this division is to promote the health, safety and general welfare of the inhabitants of the Town of Mangonia Park. This division is intended to comply with federal and state law and regulations regarding water quality.

(Ord. No. 4-93-532, Art. 1.0, § 1.1, 5-4-93)

**Sec. 26-43. - Definitions.**

[The following words and terms, when used in this division, shall have the meanings respectively ascribed to them in this section, unless context indicates otherwise:]

*Authorized official:* Any employee or agent of the Town of Mangonia Park authorized in writing by the director to administer or enforce the provisions of this division.

*Director:* Town administrator or the administrator's designate.

*Discharge:* Any direct or indirect entry of any solid, liquid or gaseous matter.

*Person:* Any natural individual, corporation, partnership, institution, or other entity.

*Site of industrial activity:* Any area or facility used for manufacturing, processing or raw materials storage, as defined under 40 CFR Section 122.26(a)(14) of regulations of the U.S. Environmental Protection Agency, as amended.

*Stormwater:* Any stormwater runoff, and surface runoff and drainage.

*Stormwater system:* The system of conveyances used for collecting, storing, and transporting stormwater owned by the Town of Mangonia Park but not including any facilities intended to be used in accordance with applicable law for collecting and transporting sanitary or other wastewater.

(Ord. No. 4-93-532, Art. 1.0, § 1.2, 5-4-93)

**Sec. 26-44. - Industrial activity—General prohibitions.**

Any discharge into the stormwater system in violation of any federal, state, county, municipal or other law, rule, regulation or permit is prohibited.

(Ord. No. 4-93-532, Art. 2.0, § 2.1, 5-4-93)

**Sec. 26-45. - Same—Specific prohibitions.**

By adoption of industrial activity stormwater regulations or by issuance of industrial activity stormwater permits, or both, the director may impose reasonable limitations as to the quality of stormwater (including without limitation the designation of maximum levels of pollutants) discharged into the stormwater system from sites of industrial activity. Any promulgation of such regulations and issuance of permits by the director shall be in accordance with applicable law.

*(Ord. No. 4-93-532, Art. 2.0, § 2.2, 5-4-93)*

**Sec. 26-46. - Same—Administrative orders.**

The director may issue an order to any person to immediately cease any discharge determined by the director to be in violation of any provision of this division, or in violation of any regulation or permit issued hereunder.

*(Ord. No. 4-93-532, Art. 2.0, § 2.3, 5-4-93)*

**Sec. 26-47. - Same—NPDES permits.**

Any person who holds a National Pollutant Discharge Elimination System (NPDES) permit shall provide a copy of such permit to the director no later than the later of: sixty (60) calendar days after the effective date of this division or sixty (60) calendar days after issuance,

*(Ord. No. 4-93-532, Art. 2.0, § 2.4, 5-4-93)*

**Sec. 26-48. - Illicit discharges—General prohibitions.**

Except as set forth under section 26-50 of this division or as in accordance with a valid NPDES permit, any discharge to the stormwater system that is not composed entirely of stormwater is prohibited.

*(Ord. No. 4-93-532, Art. 3.0, § 3.1, 5-4-93)*

**Sec. 26-49. - Same—Specific prohibitions.**

Any discharge to the stormwater system containing any sewage, industrial waste or other waste materials, or containing any materials in violation of federal, state, county, municipal, or other laws, rules, regulations, orders or permits, is prohibited.

*(Ord. No. 4-93-532, Art. 3.0, § 3.2, 5-4-93)*

**Sec. 26-50. - Same—Authorized exceptions.**

Unless the director determines that it is not properly managed or otherwise is not acceptable, the following discharges are exempt from the general prohibition set forth under section 26-48 of this division: Flows from fire fighting, water line flushing and other contributions from potable water sources, landscape irrigation and lawn watering, irrigation

water, diverted stream flows, rising groundwaters, direct infiltration to the stormwater system, uncontaminated pumped groundwater, foundation and footing drains, water from crawl space pumps, air conditioning condensation, springs, individual residential car washings, flows from riparian habitats and wetlands, and dechlorinated swimming pool contributions.

*(Ord. No. 4-93-532, Art. 3.0, § 3.3, 5-4-93)*

**Sec. 26-51. - Same—Illicit connections.**

No person may maintain, use or establish any direct or indirect connection to the stormwater system that results in any discharge in violation of this division. This prohibition is retroactive and applies to connections made in the past, regardless of whether made under a permit, or other authorization, or whether permissible under laws or practices applicable or prevailing at the time the connection was made.

*(Ord. No. 4-93-532, Art. 3.0, § 3.4, 5-4-93)*

**Sec. 26-52. - Same—Administrative order.**

The director may issue an order to any person to immediately cease any discharge, or any connection to the stormwater system, determined by the director to be in violation of any provision of this division, or in violation of any regulation or permit issued hereunder.

*(Ord. No. 4-93-532, Art. 3.0, § 3.5, 5-4-93)*

**Sec. 26-53. - Spills and dumping—General prohibitions.**

Except as set forth under section 26-50 of this division or as in accordance with a valid NPDES permit, any discharge to the stormwater system that is not composed entirely of stormwater is prohibited.

*(Ord. No. 4-93-532, Art. 4.0, § 4.1, 5-4-93)*

**Sec. 26-54. - Same—Specific prohibitions.**

Any discharge to the stormwater system containing any sewage, industrial waste or other waste materials, or containing any materials in violation of federal, state, county, municipal, or other laws, rules, regulations, orders or permits, is prohibited.

*(Ord. No. 4-93-532, Art. 4.0, § 4.2, 5-4-93)*

**Sec. 26-55. - Same—Notification of spills.**

As soon as any person has knowledge of any discharge to the stormwater system in violation of this division, such person shall immediately notify the director by telephoning

407-848-1235      FREE 407-848-1235 , and if such person is directly or indirectly responsible for such discharge, then such person shall also take immediate action to ensure

the containment and cleanup of such discharge and shall confirm such telephone notification in writing to the director at Town of Mangonia Park, 1755 East Tiffany Drive, Mangonia Park, Florida 33407, within three (3) calendar days.

*(Ord. No. 4-93-532, Art. 4.0, § 4.3, 5-4-93)*

**Sec. 26-56. - Same—Administrative order.**

The director may issue an order to any person to immediately cease any discharge or connection to the stormwater system, determined by the director to be in violation of any provision of this division, or in violation of any regulation or permit issued hereunder.

*(Ord. No. 4-93-532, Art. 4.0, § 4.4, 5-4-93)*

**Sec. 26-57. - Prohibition of illicit connection.**

It shall be unlawful for any person to make any stormwater connection which shall be defined as a connection to a stormwater drainage system, i.e. swales, pipes, catchbasins, etc., without first obtaining approval by the town, which shall not be given unless proof is shown that all federal, state and local rules and regulations have been met for the system and the discharge quality.

*(Ord. No. 4-93-532, Art. 5.0, 5-4-93)*

**Sec. 26-58. - Enforcement and penalties—Injunctive relief and violation.**

Any violation of any provision of this division, or of any regulation or order issued hereunder, shall be subject to injunctive relief if necessary to protect the public health, safety or general welfare. Any violation shall also be considered a civil infraction and may be enforced by the code enforcement board of the town.

*(Ord. No. 4-93-532, Art. 6.0, § 6.1, 5-4-93)*

**Sec. 26-59. - Same—Continuing violation.**

A person shall be deemed guilty of a separate violation for each and every day during any continuing violation of any provision of this division, or of any regulation or permit issued hereunder.

*(Ord. No. 4-93-532, Art. 6.0, § 6.2, 5-4-93)*

**Sec. 26-60. - Same—Enforcement actions.**

The director may take all actions necessary, including the issuance of notices of violation, the filing of court actions and/or referral of the matter to the town code of enforcement board to require and enforce compliance with the provisions of this division and with any regulation or permit issued hereunder.

*(Ord. No. 4-93-532, Art. 6.0, § 6.3, 5-4-93)*

**Sec. 26-61. - Same—Maximum penalty.**

The maximum penalty shall not exceed five hundred dollars (\$500.00) per day.

*(Ord. No. 4-93-532, Art. 6.0, § 6.4, 5-4-93)*

**Sec. 26-62. - Inspections and monitoring—Authority for inspections.**

Whenever necessary to make an inspection to enforce any of the provisions of this division, or regulation or permit issued hereunder, or whenever an authorized official has reasonable cause to believe there exists any condition constituting a violation of any of the provisions of this division, or regulation or permit issued hereunder, any authorized official may enter any property, building or facility at any reasonable time to inspect the same or to perform any duty related to enforcement of the provisions of this division or any regulations or permits issued hereunder; provided that (a) if such property, building or facility is occupied, such authorized official shall first present proper credentials and request permission to enter, and (b) if such property, building or facility is unoccupied, such authorized official shall make a reasonable effort to locate the owner or other person having charge or control of the property, building or facility, and shall request permission to enter. Any request for permission to enter made hereunder shall state that the owner or person in control has the right to refuse entry; and that in such event that entry is refused, the authorized official may enter to make inspection only upon issuance of a search warrant by a duly authorized magistrate. If the owner or person in control refuses permission to enter after such request has been made, the authorized official is hereby authorized to seek assistance from any court of competent jurisdiction in obtaining entry. Routine or area-wide inspections shall be based upon such reasonable selection processes as may be necessary to carry out the purposes of this ordinance, including, but not limited to, random sampling and sampling in areas with evidence of stormwater contamination, non-stormwater discharges, or similar factors.

*(Ord. No. 4-93-532, Art. 7.0, § 7.1, 5-4-93)*

**Sec. 26-63. - Authority for monitoring and sampling.**

Any authorized official may establish on any property such devices as are necessary to conduct sampling or metering of discharges to the stormwater system. During any inspections made to enforce the provisions of this division, or regulations or permits issued hereunder, any authorized official may take any samples deemed necessary.

*(Ord. No. 4-93-532, Art. 7.0, § 7.2, 5-4-93)*

**Sec. 26-64. - Requirements for monitoring.**

The director may require any person engaging in any activity or owning any property, building or facility (including, but not limited to, a site of industrial activity) to undertake such



reasonable monitoring of any discharge(s) to the stormwater system and to furnish periodic reports.

**Sec. 13.5-35. - Plant quality.**

Plant materials used in conformance with the provisions of this chapter shall conform to the Standards of Florida No. 1 or better as given in "Grades and Standards for Nursery Plants" Part I. 1963, and Part II, State of Florida, Department of Agriculture, Tallahassee, as amended from time to time, or equal thereto. Grass sod shall be clean and reasonably free of weeds and noxious pests or diseases. The use of native vegetation is encouraged.

*(Ord. No. 1-89-486, § 1(1-16), 3-7-89)*

**Sec. 13.5-36. - Installation and planting methods.**

Installation of all landscaping shall be in a sound workmanship-like manner according to accepted good planting procedures and best management practices.

A three-inch layer of shredded cypress mulch or other approved mulch shall be used in all planting beds.

*ALL Landscaping  
w/ BMP.*

**Sec. 13.5-37. - Prohibited species of vegetation.**

Prohibited species of vegetation shall be those species whose roots are known to cause damage to public roadways or other public improvements, and those non-native species considered to have a displacing effect upon vegetation native to Florida. Such species of vegetation shall not be planted within the corporate limits of the town. The following list of prohibited species shall not be considered a complete list, but may be added to as the need arises.

<i>Scientific Name</i>	<i>Common Name</i>
Acacia ariculiformis	Earleaf Acacia
Ficus altissima	Lofty Fig
Ficus aurea	Florida Strangler Fig
Ficus benjamina	Benjamin Fig
Ficus nitida	Indialaurel Fig
Ficus elastica	Indiarubber Fig
Casuarina cunninghamiana	Australian Pine
Casuarina equisetifolia	
Casuarina lepidophloia	
Schinus terebinthifolius	Brazilian Pepper
Meleleuca leucadendra	Meleleuca
	Florida Holly
Lygodium microphyllum	Old-world Climbing Fern
Dioscorea bulbifera	Air Potato Vine
Cupaniopsis anacardioides	Carrotwood
Pueraria montana var. Lobata	Kudzu

(Ord. No. 1-89-486, § 1(1-18), 3-7-89; Ord. No. 02-07, § 2. 12-17-02)

**Sec. 13.5-38. - Suggested trees.**

A variety of shade tree species, both flowering and non-flowering are suggested to meet the requirements of this chapter. The following list of species shall not be considered a complete list, but should be considered flexible due to the availability or unavailability of certain species. Species listed with an asterisk are those with flowers.

<i>Scientific Name</i>	<i>Common Name</i>
Bucida Buceras	Black Olive
*Callistemon rigidus	Bottle Brush

*Parkinsonia aculeata	Jerusalem Thorn
Quercus virginiana	Live Oak
Swietenia mahogani	Mahogany
Conocarpus erectus var. sericia	Silver Button wood
*Tabebuia argentea	Tree of Gold
Terminalia catappa	Tropical Almond
*Bauhinia purpurea	Orchid Tree
*Lagerstroemia speciosa	Queens Crape Myrtle
Acer rubrum	Red Maple
Brassaia actinophylla	Schefflera
Coccoloba uxifera	Sea Grape
*Stenolobium stans	Yellow Elder
*Cassia fistula	Golden Shower