

Town of Fort Myers Beach

Larry Kiker
Mayor

Bob Raymond
Vice Mayor

Tom Babcock
Council Member

Jo List
Council Member

Alan Mandel
Council Member

September 7, 2010

Mr. Steven Kelly
Florida Department of Environmental Protection
NPDES Stormwater Section
Mail Station 2500
2600 Blair Stone Road
Tallahassee, FL 3299-2400

Subject: Town of Fort Myers Beach Year 6
Annual NPDES Report – Permit FLS000035

Dear Mr. Kelly:

Enclosed is the completed and signed annual Year 6 NPDES Annual Report pursuant to Florida Administrative Code 62.621.600 for your review.

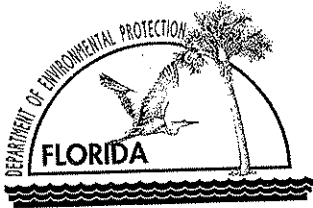
Your consideration with this matter is appreciated. Thank you and should you have any questions or comments please contact me at Town Hall.

Sincerely,

Cathie Lewis
Public Works Director

Enc

pc: Lee County Natural Resources
file



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: Town of Fort Myers Beach		
B.	Permit Name: Lee County Municipal Separate Storm Sewer System		
C.	Permit Number: FLS000035		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 Year 4 Year 5 <input checked="" type="checkbox"/> Other, specify Year: 6		
E.	Reporting Time Period (month/year): 03/09 through 03/10		
F.	Name of the Responsible Authority: Terrance Stewart		
	Title: Town Manager		
	Mailing Address: Town of Fort Myers Beach, 2523 Estero Boulevard		
	City: Fort Myers Beach, FL	Zip Code: 33931	County: Lee
	Telephone Number: (239) 765-0202	Fax Number: (239) 765-0909	
G.	E-mail Address: terry@fortmyersbeachfl.gov		
	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Cathie Lewis		
	Title: Public Works Director		
	Department: Public Works		
	Mailing Address: Town of Fort Myers Beach, 2523 Estero Boulevard		
	City: Fort Myers Beach, FL	Zip Code: 33931	County: Lee
	Telephone Number: (239) 765-0202	Fax Number: (239) 765-0909	
	E-mail Address: cathie@fortmyersbeachfl.gov		

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): 0 (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): 0 (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. Year 6 monitoring is consistent with that of Years 1 – 5. Water quality monitoring is conducted on the Town's behalf by Lee County Environmental Laboratory at four sites in Estero Bay immediately adjacent to Estero Island which comprises the Town of Fort Myers Beach. The four monitoring locations are known as EB-8 through EB-11

Provide a brief discussion of the monitoring results to date:

B. Total Nitrogen at the sites remained similar to year 5 monitoring results. Total Phosphorus decreased somewhat on average, with a moderate spikes. Samples for dissolved Oxygen indicated a slight increase on average from year 5. pH values in year 6 were similar with year 5 averaging around 8.

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

SECTION IV. FISCAL ANALYSIS

A. Total expenditures for the NPDES stormwater management program for the current reporting year: \$35,000.00

B. Total budget for the NPDES stormwater management program for the subsequent reporting year: \$35,000.00

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):

<u>Attached</u>	<u>N/A</u>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.
	<input checked="" type="checkbox"/>	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): Terrance Stewart

Title: Town Manager, Town of Fort Myers Beach

Signature:  Date: 9/7/2010

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 stormwater facilities operated by the permittee. Provide any updates to the inventory in the subsequent ANNUAL REPORT.	1 22,562 51 12 450	Note: Fort Myers Beach = FMB FMB GIS Map FMB GIS Map FMB GIS Map FMB GIS Map FMB GIS Map	Public Works Public Works Public Works Public Works Public Works	
	Conduct inspections and maintenance of structural controls and roadway stormwater collection structures in accordance with Table II.A.1.a of the permit. Maintain an internal record keeping system to schedule and document inspections and maintenance activities performed on structural controls and roadway stormwater collection structures operated by the permittee. Report on the inspections and maintenance conducted in each ANNUAL REPORT.	12	PW Daily Maintenance Log	Public Works	
	Dry detention area maintenance	4	PW Daily Maintenance Log	Public Works	
	Culvert pipe inspections (linear feet)	22,562	Public Works Log	FMB PW	
	Culvert pipe maintenance (linear feet)	4,144	Public Works Log	FMB PW	
	Pollution control structure inspections	216	Public Works Inspection Log	Public Works	
	Pollution control structure maintenance	121	Public Works Log	Public Works	
	Ditch/swale inspections (miles)	24	Public Works Log	Public Works	
	Ditch/swale maintenance (miles)	48	PW Daily Maintenance Log	FMB PW	
	Inlet/catch basin/grate inspections	450	Public Works Log	FMB PW	
	Inlet/catch basin/grate maintenance	41	Public Works Log	FMB PW	
Part III.A.2	Areas of New Development and Significant Redevelopment During Years 1 and 2, conduct a review of the permittee's current local codes and land development regulations to determine where changes can be made to reduce the stormwater impact of new development. In particular, focus on changes to the code that will promote: reductions in impervious surfaces, the use of swales, the incorporation of low impact development principles, stormwater reuse, and adherence to the principles of the Florida Yards and Neighborhoods program in new landscaping. Provide a summary of recommended changes to the local codes and regulations with a schedule for implementation in the Year 3 ANNUAL REPORT. (Year 3 Only: Attach summary of recommended changes)				
Part III.A.3	Roadways				

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	<p>Continue to implement the litter control programs for public highways and streets, including rights-of-way, employed within the permittee's jurisdictional area and properly dispose of collected material. Report on the litter collection activities, including the frequency of litter collection and an estimate of the quantity of litter collected, in each ANNUAL REPORT.</p> <p>Frequency of litter collection</p> <p>Amount of litter collected (tons)</p> <p>Total miles of right-of-way maintained</p>	<p>Weekly</p> <p>127</p> <p>54</p>	<p>FMB Maintenance Log</p> <p>FMB Trash Report</p> <p>GIS Map/Mileage Log</p>	<p>Public Works</p> <p>Public Works</p> <p>Public Works</p>	
<p>Part III.A.4</p> <p>Flood Control Projects</p>	<p>Maintain a list of stormwater capital improvement projects proposed by the Stormwater Management Master Plan. Report on the status of the projects, including a description of the stormwater quality improvement and/or protection measures for each project, in each ANNUAL REPORT. Include only those projects with activity during the reporting year.</p> <p>Capital Improvement Projects (CIPs) proposed</p> <p>CIPs active</p> <p>CIPs completed</p> <p>(Attach description of stormwater quality improvements/protection measures for each project)</p>	<p>2</p> <p>0</p> <p>0</p>	<p>FMB Public Works Project File</p>	<p>FMB</p>	<p>North Estero Blvd./Basin Based Project</p> <p>0</p> <p>0</p>
<p>Part III.A.5</p>	<p>Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit</p> <p>Continue the program to identify priorities and procedures for inspections, and implementation of measures to control discharges from municipal waste treatment, waste storage, and waste disposal facilities, including transfer stations and waste fleet maintenance facilities that are not otherwise covered by an NPDES stormwater permit. The program shall identify priority facilities and shall determine the necessary control measures and procedures to be employed at each facility. Report on the status and findings of the program, including the number and frequency of the inspections conducted, and the identification of the applicable facilities, in each ANNUAL REPORT</p> <p>Applicable municipal facilities</p> <p>Number of inspections</p> <p>Frequency of inspections</p>	<p>0</p> <p>0</p> <p>0</p>	<p>Waste franchise on FMB held by Veolia Waste Services</p>		
<p>Part III.A.6</p>	<p>Pesticides, Herbicides, and Fertilizer Application</p>				

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	<p>Continue to require documentation of proper certification and licensing for all applicators contracted to apply pesticides or herbicides on permittee-owned property, as well as any permittee personnel employed in the application of these products, in accordance with Florida Department of Agriculture regulations.</p>	<p>3 0</p>	<p>Personnel File 0</p>	<p>FMB 0</p>	<p>0</p>
	<p>Certified/licensed applicators (personnel) Certified/licensed applicators (contractors)</p>				
	<p>Continue to implement a public education program (using such means as the Internet, literature, lectures, special events, notices on Government Access television, radio announcements, utility bill inserts, bulletin board ads, etc) to encourage citizens to reduce their use of pesticides, herbicides, and fertilizers. Continue the distribution of public education materials describing the need to minimize the application of fertilizers, pesticides and herbicides, and promote actions such as incorporating native vegetation and xeriscape concepts into new landscaping projects. Report on the public education activities that occurred within the permittee's jurisdiction, such as the number of brochures/bill inserts distributed, the number of newspaper articles published, and the number of public presentations conducted, in each ANNUAL REPORT.</p>	<p>1</p>	<p>FMB Fertilizer Brochure</p>	<p>FeRRT Force Marine Resources Task Force</p>	<p>Handout/Brochure</p>
	<p>Brochures/Flyers/Fact sheets distributed</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>0</p>
	<p>Newspaper and newsletter articles/notices</p>	<p>1</p>	<p>FMB Radio Station</p>	<p>FMB</p>	<p>Continuous Loop</p>
	<p>Radio or television Public Service Announcements (PSAs)</p>	<p>0</p>			
	<p>Special events</p>				
	<p>Continue to conduct annual seminars, training sessions, and/or on-the-job supervision for municipal applicators to emphasize the stormwater implications of pesticides and herbicide application. Report on the training activities, including the number of training sessions conducted and the number of municipal applicators trained, in each ANNUAL REPORT.</p>				
	<p>Training sessions conducted</p>	<p>0</p>	<p>0</p>		<p>Training Provided By Lee County Extension Service</p>
	<p>Municipal applicators trained</p>	<p>0</p>	<p>0</p>		
<p>Part III.A.7.a</p>	<p>Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures</p>				
<p>Part III.A.7.c</p>	<p>No Reportable Items Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal</p>				
	<p>Continue to implement the standard investigative procedures (including pro-active inspections) to identify and terminate the source(s) of illicit connections or discharges to the MS4. Based upon reports received from personnel or citizens, investigate suspected illicit discharges. Maintain an internal log documenting the reports of suspected illicit discharges, investigations performed, and enforcement actions taken. Report on the program, including</p>				

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	<p>the number and the results of the investigations and enforcement actions conducted, in each ANNUAL REPORT.</p> <p>Pro-active inspections of suspected illicit connections/discharges/dumping</p> <p>Investigations of reports of suspected illicit connections/discharges/dumping</p> <p>Illicit connections/discharges/dumping found</p> <p>Enforcement referrals to the county/agency</p>	<p>365</p> <p>0</p> <p>0</p> <p>0</p>	<p>PW Daily Maintenance Log</p> <p>NPDES Permit Compliance File</p> <p>NPDES Permit Compliance File</p> <p>NPDES Permit Compliance File</p>	<p>Public Works</p> <p>Public Works</p> <p>Public Works</p> <p>Public Works</p>	
Part III.A.7.d	<p>Continue to implement a periodic training course to educate appropriate permittee personnel to identify and report conditions in the stormwater facilities that may indicate the presence of illicit discharges to the MS4. Report on the training activities, including the number of training courses conducted and the number of personnel trained, in each ANNUAL REPORT.</p> <p>Training sessions conducted</p> <p>Personnel trained</p>	<p>1</p> <p>13</p>	<p>FMB Training File</p> <p>FMB Training File</p>	<p>Public Works</p> <p>Public Works</p>	
Part III.A.7.e	<p>Illicit Discharges and Improper Disposal — Spill Prevention and Response</p> <p>Continue to implement the spill-prevention/spill-response plan and procedures to prevent, contain, and respond to spills that may discharge into the MS4. Ensure that spills, regardless of whether they are hazardous, are properly addressed. Report on the spill prevention and response activities, including the number of spills addressed, in each ANNUAL REPORT.</p> <p>Hazardous and non-hazardous material spills responded to</p> <p>Enforcement referrals to the county/agency</p> <p>Provide periodic training courses on proper spill prevention, containment, and response techniques and procedures for appropriate permittee personnel. Report on the training activities completed, including the number of training courses provided and the number of personnel trained, in each ANNUAL REPORT.</p> <p>Training courses provided</p> <p>Personnel trained</p>	<p>0</p> <p>0</p> <p>0</p> <p>0</p>			
Part III.A.7.e	<p>Illicit Discharges and Improper Disposal — Public Reporting</p> <p>Continue to maintain a complaint log documenting all reports of illicit discharges and improper disposal and the actions taken to investigate and resolve the problem in the permittee's jurisdictional area. Report the number and type of complaints received and the results of the investigations (i.e., whether an illicit discharge was found and subsequently eliminated) in each ANNUAL REPORT.</p> <p>Citizen reports of suspected illicit connections/discharges/dumping received</p> <p>Illicit connections/discharges/dumping found</p> <p>Illicit connections/discharges/dumping eliminated</p>	<p>0</p> <p>0</p> <p>0</p>			

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	<p>Continue to promote, publicize, and facilitate public reporting of the presence of illicit discharges and improper disposal of materials into the MS4. Continue to maintain a dedicated phone line for reporting of suspected illicit discharges and improper disposal. The permittee shall publicize the existence of this number on a routine basis and shall include information on the problems associated with illicit discharges and improper disposal, how to identify them, and how to report incidents found. Report on the public outreach activities conducted in each ANNUAL REPORT.</p> <p>Brochures/Flyers/Fact sheets distributed</p> <p>Newspaper and newsletter articles/notices</p> <p>Radio or television PSAs</p> <p>Special events</p>	<p>1</p> <p>0</p> <p>0</p> <p>0</p>	<p>FMB Website</p> <p>0</p> <p>0</p> <p>0</p>	<p>FMB Public Works</p> <p>0</p> <p>0</p> <p>0</p>	
<p>Part III.A.7.f</p>	<p>Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control</p> <p>Continue implementation of the outreach program to instruct the public on responsible environmental management and the proper disposal of used motor oil, leftover hazardous household products, and lead acid batteries. The outreach program could include an activity such as the stenciling/marketing of municipally-owned storm sewer inlets, and providing information through the Internet, utility bill inserts, brochures, flyers, PSAs, presentations, etc.</p> <p>Continue to support and publicize Household Hazardous Waste Collection Days and Conditionally Exempt Business Collection Days to facilitate proper disposal of oil, toxics, and household hazardous materials. Lee County shall provide the other permittees with adequate advance notification of these planned events. Report on the public outreach activities conducted in each ANNUAL REPORT</p> <p>Brochures/Flyers/Fact sheets distributed</p> <p>Neighborhood presentations</p> <p>Newspaper and newsletter articles/notices</p> <p>Number of Household Hazardous Waste Collection Day events</p> <p>Radio or television PSAs</p> <p>Seminars/Workshops</p> <p>Special events</p> <p>Storm sewer inlets marked</p>	<p>1</p> <p>0</p> <p>0</p> <p>Continuous</p> <p>1</p> <p>0</p> <p>0</p> <p>160</p>	<p>FMB Website</p> <p>0</p> <p>0</p> <p>Lee County Solid Waste Division</p> <p>FMB Radio Station</p> <p>0</p> <p>0</p> <p>PW Inspection Log</p>	<p>FMB Public Works</p> <p>0</p> <p>0</p> <p>Lee County Solid Waste Division</p> <p>FMB</p> <p>0</p> <p>0</p> <p>Public Works</p>	
<p>Part III.A.7.g</p>	<p>Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage</p> <p>Continue to implement procedures to reduce or eliminate discharges to the MS4 from sanitary sewer seepage and sanitary sewer overflows (SSOs). Report on the activities to reduce or eliminate seepage and SSOs, such as number of incidents discovered and resolved, in each ANNUAL REPORT.</p> <p>Sanitary sewer seepage incidents discovered</p> <p>Sanitary sewer seepage incidents resolved</p>	<p>0</p> <p>0</p>	<p>0</p> <p>0</p>	<p>0</p> <p>0</p>	

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Part III.A.8.a	<p>Sanitary sewer overflows (SSOs) discovered 0</p> <p>Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections</p> <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.</p> <p>Total high risk facilities 0</p> <p>New high risk facilities 0</p>	0	0	0	
Part III.A.8.b	<p>Continue the inspection program procedures for high risk facilities, according to the priority and established inspection schedules, to determine compliance with all appropriate aspects of the stormwater program (e.g., no illicit connections and compliance with local stormwater regulation requirements). Maintain a log documenting the inspections performed and enforcement actions taken. Report on the inspection program, including the number and results of inspections conducted and enforcement actions taken, in each ANNUAL REPORT.</p> <p>High risk facility inspections 0</p> <p>Enforcement referrals to the county/agency 0</p>	0	0	0	
Part III.A.9.a	<p>Industrial and High-Risk Runoff — Monitoring for High Risk Industries</p> <p>Monitoring 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.</p> <p>New high risk facility evaluated 0</p> <p>High risk facilities monitored 0</p>	0	0	0	
Part III.A.9.a	<p>Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices</p> <p>Continue to implement the local codes or land development regulations that require construction site planning approval and structural and non-structural erosion and sediment controls during construction to reduce the discharge of pollutants to the MS4.</p> <p>Construction site plan reviews (private and municipal sites) 2</p>	2	FMB Development Review Services Report	FMB Development Services	
Part III.A.9.b	<p>Construction Site Runoff — Inspection and Enforcement</p> <p>Continue to implement the inspection program for construction projects to ensure compliance with local stormwater requirements and the permittee's development requirements concerning erosion and sediment control. Maintain enforcement of inspection program by issuing a violation notice and/or a stop work order to those construction site operators that repeatedly do not maintain compliance with the approved erosion and sediment control BMPs and permit conditions. Maintain an internal log documenting the inspections performed and any enforcement actions taken. Report on the inspection program, including the number of construction inspections conducted and the number</p>				

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	<p>and type of enforcement actions taken, in each ANNUAL REPORT. Construction site inspections (private and municipal sites) Enforcement referrals to the county/agency Stop Work Orders issued</p>	<p>30 0 0</p>	<p>FMB PW 0 0</p>	<p>FMB PW 0 0</p>	
	<p>Develop and implement a formalized construction inspection checklist covering current stormwater management and water quality inspection items in order to standardize the inspection process. Provide a copy of the developed checklist in the Year 1 ANNUAL REPORT. (Year 1 Only: Attach inspection checklist)</p>				
Part III.A.9.c	<p>Construction Site Runoff — Site Operator Training</p>				
	<p>Continue the stormwater training/outreach program for construction site operators and inspectors. Provide periodic training courses for public and private persons involved in the construction or inspection of stormwater management, erosion and sediment controls. Report on the training activities, including the number of training courses provided and the number of personnel trained, in each ANNUAL REPORT.</p>	<p>1</p>	<p>FMB PW File</p>	<p>Lee Co. Natural Resources</p>	
	<p>Training courses provided</p>	<p>0</p>	<p>0</p>	<p>0</p>	
	<p>Private participants trained</p>	<p>2</p>	<p>DEP Certification/EPA Webcast</p>	<p>Lee Co. Natural Resources</p>	
	<p>Municipal construction inspectors/site operators trained</p>				
	<p>Continue to implement the procedures to notify building permit applicants of their potential application responsibilities under the Department's NPDES generic permit for stormwater discharge from construction activities (Rule 62-621.300(4), F.A.C.). Number of building applicants notified</p>	<p>4</p>	<p>FMB Building Services</p>	<p>Public Works</p>	
	<p>Provide a description of the notification procedures for building permit applicants required above, and include any supporting materials, in the Year 1 ANNUAL REPORT. (Year 1 Only: Attach description of procedures and supporting material)</p>				

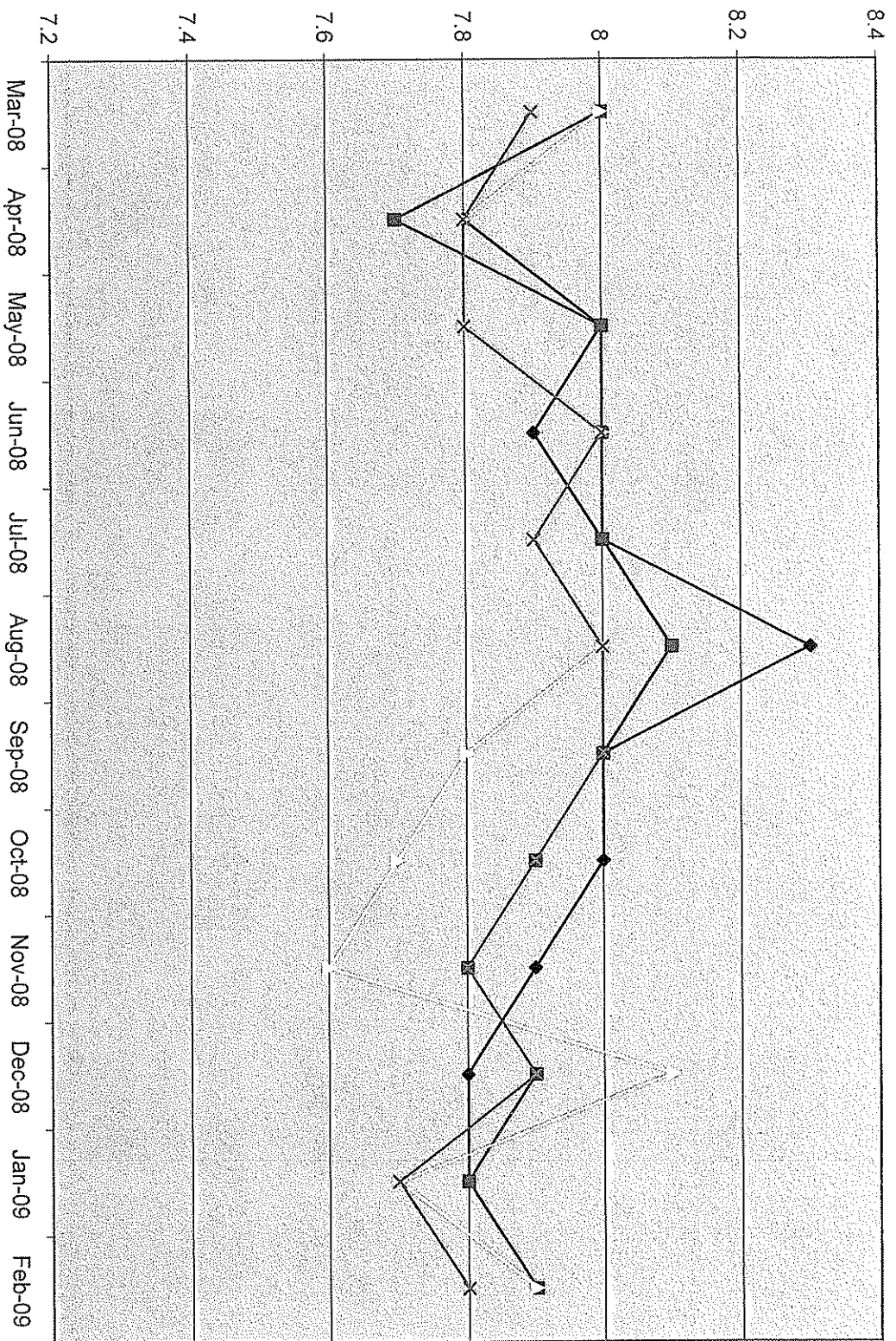
SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)

A.	<p>Permit Citation/SWMP Element</p>	<p>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.</p>
	<p>N/A</p>	

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

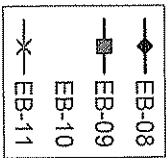
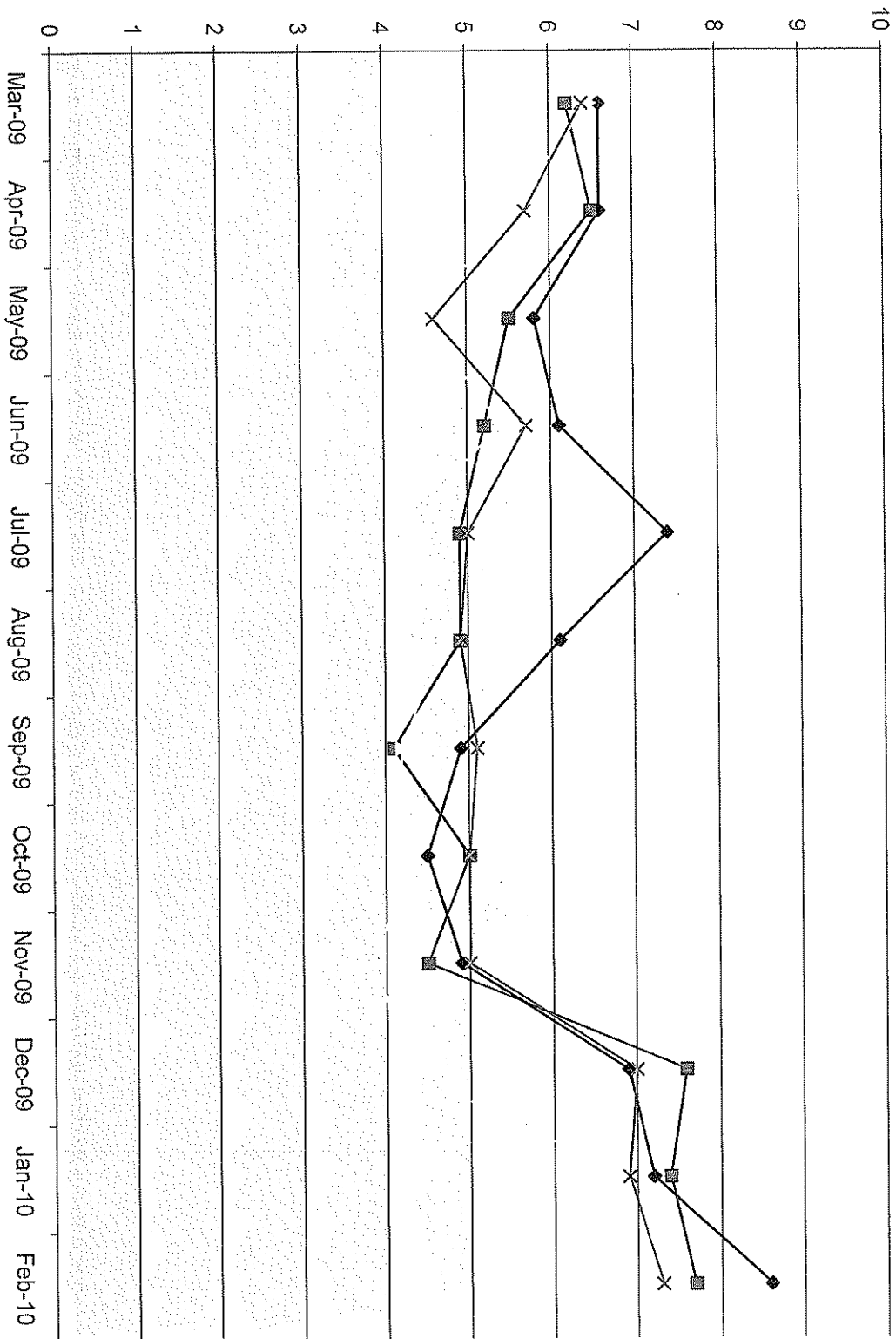
Permit Citation/ SWMP Element	Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change)
B.	

pH, Field Tested (electrometric)

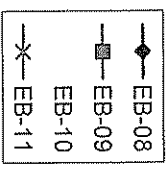
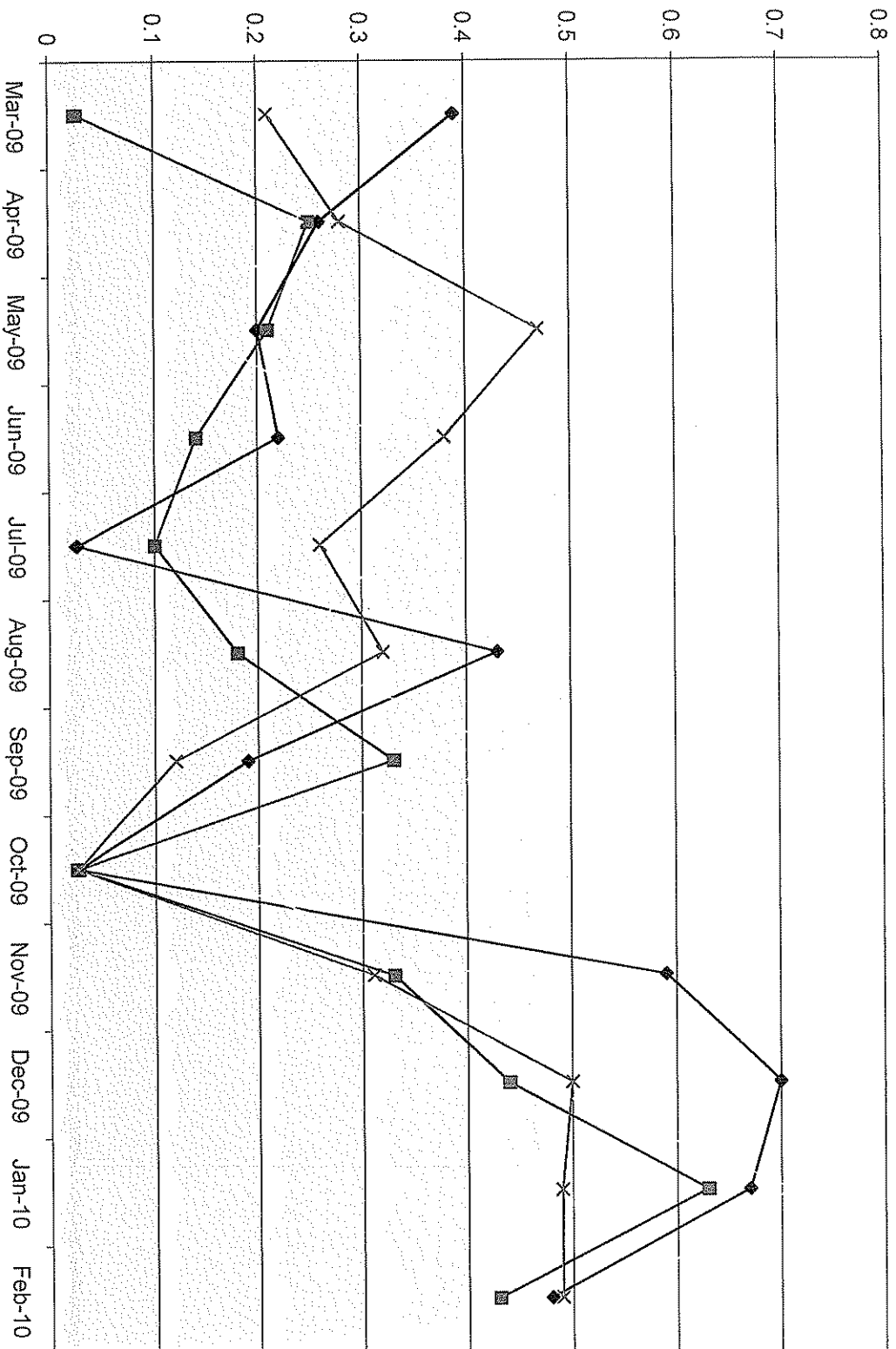


◆ EB-08
 ■ EB-09
 ● EB-10
 ✕ EB-11

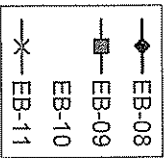
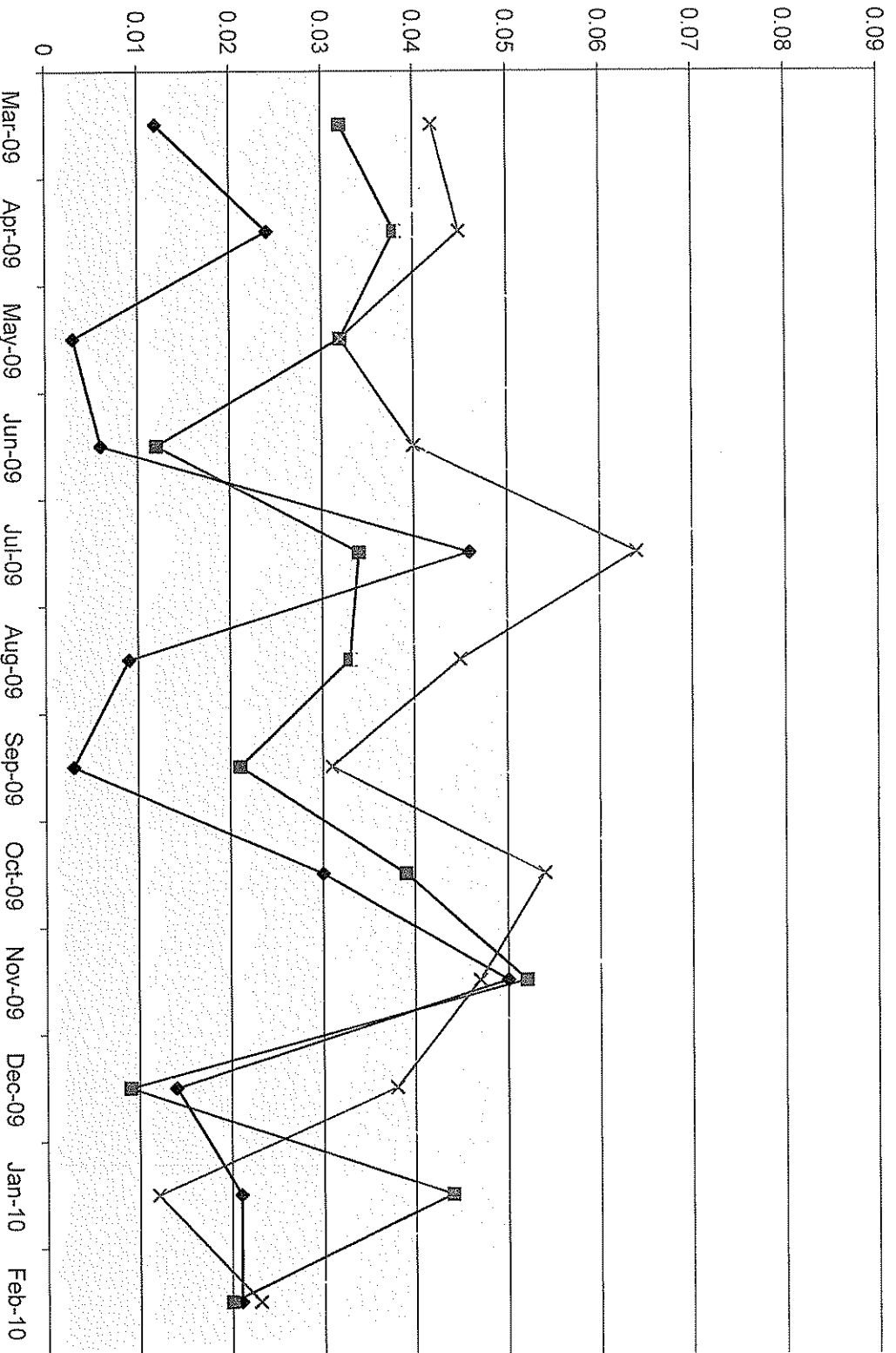
Dissolved Oxygen - Electrode (mg/L)



Total Nitrogen mg/L as N



Total Phosphorus (mg/L as P)



APPENDIX C

**(ADDENDUM TO FLORIDA
HMGP & FMA APPLICATION)**

Section I. Project Description

B. Project Description, Scope of Work, and Protection Provided:

The area of the Town of Fort Myers Beach covered under this application is known locally as North Estero Island and experiences frequent storm drainage flooding along Estero Boulevard. The objective of the proposed improvements is to mitigate short-term impacts to residences as a result of intermittent flooding and standing stormwater within the project area as well as the long term capital cost for road maintenance and repair.

As many as 90 homes and 10 businesses are potentially impacted due to annual flooding and 10 homes along Matanzas Court have experienced flooding and will be protected from frequent inundation with the completion of the project. It is estimated that the proposed drainage improvement project will protect the homes against the 1-hour, 5-year frequency rainfall event (approximately 2.8"). However it should be noted that flooding has been reported and observed in this area with as little as 1.5" of rain within a 24 hour period). Under more severe storm conditions that are anticipated to occur less frequently, the homes will experience flood damage. However it will be less severe and less frequent than currently experienced.

The useful life of the proposed drainage improvement project is over 50 years. Periodic maintenance will ensure that it functions as designed.

Currently, no drainage facilities exist within the project area along the Estero Boulevard corridor. Mitigation will be achieved through developing a closed drainage system within the Estero Boulevard right of way from San Carlos Boulevard north to Bodwitch Point. The proposed improvements will reduce the frequency and duration of flooding at several intersections and generally along the entire reach of the project.

Records indicate flooding occurs on an annual basis with 45 homes impacted every year.

The entire project area shown on the attached exhibits experiences frequent flooding. Past records indicate that while the area may be subject to flooding from major coastal storms, the biggest problems occur due to the lack of any existing drainage system along Estero Boulevard. While water does not enter homes during every storm event, it does often flood the surrounding yards and subsequently can damage the landscaping, foundations and siding. The more frequent and smaller storms also typically result in road flooding of approximately 1 foot in depth, which causes traffic delays and contributes to the long term degradation of the roadway.

The North Estero Boulevard Drainage Improvement Project proposes to reduce frequent home and street flooding during rainfall as frequent as the 1-Day 3 year events (the project does not alter the potential for damage due to major coastal storms).

The proposed improvements will include construction of a curb and gutter collection system with a series of inlets containing sediment and trash collection mechanisms. The series of inlets will be interconnected by an infiltration pipe network that will provide stormwater attenuation and infiltration. System outfalls to Estero Bay will be installed at available points to accommodate larger, less frequent events. Where possible, these outfalls will be constructed as dry detention swales to provide additional detention capacity.

The drainage improvements will utilize approximately 1,500 linear feet of Reinforced Concrete Pipe (RCP) of various diameters. Nineteen stormwater inlet drop boxes will be installed. The entire roadway will be slightly elevated in order to provide adequate elevations to direct surface runoff to the proposed outfalls. The improvements to the road will require approximately 17,000 square yards of asphalt, 7,000 square yards of concrete and 18,000 square yards of base material.

Scope of Work:

Based on the preliminary hydraulic analysis and drainage study, the project will consist of the following elements:

- 1. Phase One:** Final engineering design and permitting of an improved roadway with a closed drainage system including 330 linear feet of 15" RCP, 800 linear feet of 18" RCP, 350 linear feet of 15" RCP and 18 Type "C" stormwater inlets. The drainage system will be designed to capture, treat and convey runoff from the 1-hour 5-year storm event. An estimate of the cost of the Phase One study improvements is approximately \$879,224.00.
- 2. Phase Two:** Excavate and install the improvements described in Phase One above. Repair excavated portions of Estero Boulevard; perform final grading and revegetation. Conduct construction inspections.

4600000451

EXHIBIT "A"

TOWN OF FORT MYERS BEACH
NORTH ESTERO BOULEVARD FLOOD MITIGATION AND
WATER QUALITY IMPROVEMENT PROJECT
STATEMENT OF WORK

1.0 Introduction

The Town of Fort Myers Beach (Town) was incorporated in 1995 and is a community of approximately 7,713 acres located along Estero Bay and the Gulf of Mexico in Lee County. The Town currently operates stormwater management systems and programs ~~and has a stormwater management utility~~. The Town is interested in implementing flood mitigation and water quality improvement projects that will benefit Estero Bay. One of those projects is to retrofit a stormwater management system along Estero Boulevard from San Carlos Boulevard north to Bowditch Point.



In 2006, the South Florida Water Management District (District) recognized the importance of implementing surface water improvement projects throughout the Town. Accordingly, the District included in its FY07 budget, funding to support these high priority projects.

2.0 Objectives

The purpose of retrofitting a stormwater management system for the north end of Estero Boulevard is to mitigate local area flooding associated with routine annual rain events and improve water quality of stormwater conveyed to Estero Bay from the area neighborhoods.

3.0 Scope of Work

The Town shall be responsible for the satisfactory completion of the North Estero Boulevard Flood Mitigation and Water Quality Improvements and may retain a consultant to provide the professional services needed to complete the project. The work consists of construction of the improved roadway to include approximately 1800 feet of reinforced concrete drainage pipe, 18 Type "C" stormwater inlets and a dry retention area. The drainage system will be designed to capture, treat and convey runoff from the 1-hour 5-year storm event.

The Town and/or its consultant are encouraged to interface with the District's Project Manager to review the design with emphasis on the water quality improvements recommended. This should be performed to obtain District design suggestions for the proposed surface water quality improvement features, as needed.

4.0 Work Breakdown Structure

Project Management

The Town shall be responsible for the satisfactory completion of the project as described herein

and may retain a consultant to provide the professional services needed to complete the design, plans, specifications, permits, construction bidding and construction oversight.

The Town is responsible for project management, budget management and quality control. The Town is responsible for reviewing and approving deliverables from the consultant to ensure that the project objectives are met.

Task 1: Construction Bidding

Task 1 includes completion of the construction bidding process needed through issuance of the Notice-to-Proceed with construction. Task 1 consists of the following activities, as required.

- Bidding
- Advertising/Distribution of Bid Specifications
- Bid Specification Addendums, as required
- Bid Opening
- Bid Technical/Commercial Review
- Selection of Contractor(s)
- Authorization of Contractor(s)
- Insurance Requirements
- Issuance of Notice-to-Proceed with Construction

Deliverable: Notice-to-Proceed with Construction and 1 copy of the site plan

Task 2: Construction

Task 2 includes construction, engineering oversight, and project management of the construction activities as identified below, as required.

- Construction of the North Estero Boulevard Flood Mitigation and Water Quality Improvements in accordance with approved plans, specifications and permit requirements
- Other construction activities that are directly and appropriately associated with achieving the project objectives or completing the project scope including public outreach
- Engineering Oversight and Project Management
- Addendums or revisions to design plans and specifications
- Site Visits
- Inspection and Testing
- Construction Observation
- Final Certification

Deliverables: Copy of the 50% Completion Certification and the Construction Substantial Completion Certification

more effectively handles stormwater runoff to prevent flooding and mitigates repetitive loss claims within the project area, and treats stormwater runoff in a cost-effective manner that complies with all applicable federal, state and local regulations. Engineering design work shall develop all necessary construction documents including but not limited to spec drawings, GIS maps, estimated project costs prepared in fiscal year 2008 dollars, a project timeline, a list of required materials for the construction phase and material sources, and any and all other necessary construction documentation required for successful and timely project completion. The engineering design work shall also prepare all necessary federal, state and local government permit applications and secure said permits in a timely manner prior to start of construction work. Design work shall be engineered in a manner that protects the natural and cultural resources in the project area as well as those resources located within a one-mile radius of the project area. This is a phased project, with the drainage improvement study and engineering design work as Phase I; and the construction of the designed drainage improvements as Phase II. This HMGP application pertains solely to Phase I.

Describe any other on-going or proposed projects in the area that may impact, positively or negatively the proposed HMGP or FMA project-North Estero Stormwater Management and Treatment Project. FEMA Project # 1539-102-R, partially funded through an HMGP grant under State Project # 1539-DR-FL

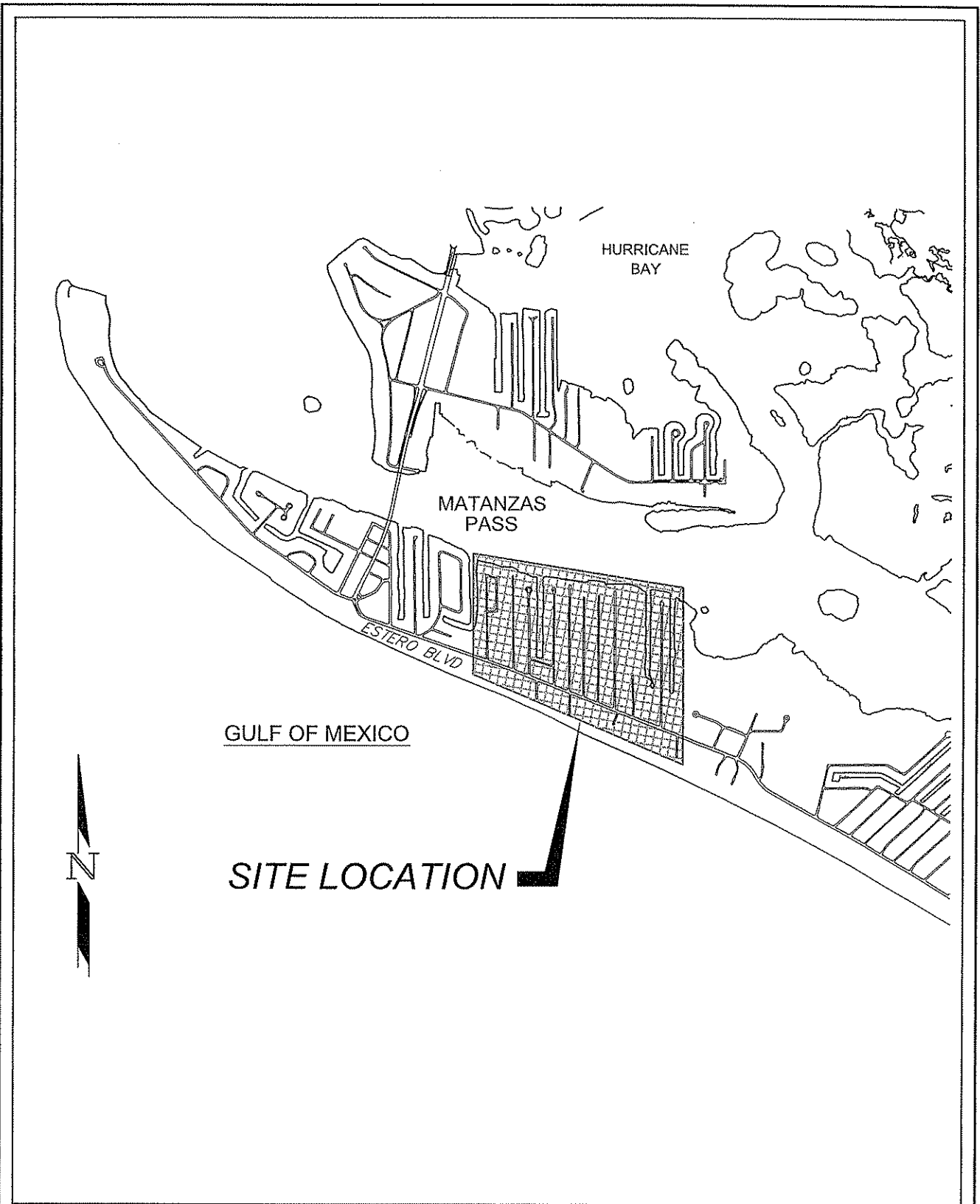
Section II. Project Location (Fully describe the location of the proposed project.)

A. Site

1. Describe the physical location of this project, including street numbers (or neighborhoods) and zip codes; and if available, please provide precise longitude and latitude coordinates for the site utilizing a hand-held global positioning system (GPS) unit or the equivalent: The project area is located along the Town's public roads and drainage system along a contiguous block of 12 streets within the Town of Fort Myers Beach, Lee County, Florida, including Santos Road, Carolina Avenue, Ostego Road, Miramar Street, Ohio Avenue, Bayview Drive, Virginia Avenue, Pearl Street, Delmar Avenue, Fairweather Lane, Mango Street, and Chapel Street. Zip code is 33931. For central location within the project area, the Latitude is 81:55:20.6W, the Longitude is 26:26:20.9N (T-46-S, R-24-E, Sec 19).
2. Title Holder: Town of Fort Myers Beach, a local government in Lee County, Florida.
3. Is the project site seaward of the Coastal Construction Control Line (CCCL)? YES NO
4. Provide the number of each structure type (listed below) in the project area that will be affected by the project. That is, *all* structures in project area.
 - Residential property: _____
 - Businesses/commercial property: _____
 - Public buildings: _____
 - Schools/hospitals/houses of worship: _____
 - Other: Public roadways and stormwater drainage easements owned by the Town of Fort Myers Beach, FL.

B. Flood Insurance Rate Map (FIRM) showing Project Site

<input checked="" type="checkbox"/> Attach two (2) copies of the FIRM map, a copy of the panel information from the FIRM, and, if available, the Floodway Map. <i>FIRM maps are required for this application (if published for your area). Also, all attached maps must have the project site and structures clearly marked on the map.</i> FIRMs are typically available from your local floodplain administrator who may be located in a planning, zoning, or engineering office. Maps can also be ordered from the Map Service Center at 1-800-358-9616. For more information about FIRMs, contact your local agencies or visit the FIRM site on the FEMA Web-page at http://www.fema.gov/home/MSCHardcopy.htm	
Using the FIRM, determine the flood zone(s) of the project site (Check all zones in the project area).	
(see FIRM legend for flood zone explanations) (A Zone must be identified)	
<input type="checkbox"/> VE or V 1-30	<input checked="" type="checkbox"/> AE or A 1-30
<input type="checkbox"/> AO or AH	<input type="checkbox"/> A (no base flood elevation given)
<input type="checkbox"/> B or X (shaded)	<input type="checkbox"/> C or X (unshaded)
<input type="checkbox"/> Floodway	
<input type="checkbox"/> Coastal Barrier Resource Act (CBRA) Zone (Federal regulations strictly limit Federal funding for projects in this Zone; please coordinate with your state agency before submitting an application for a CBRA Zone project).	
<input type="checkbox"/> If the FIRM Map for your area is not published, please attach a copy of the Flood Hazard Boundary Map (FHBM) for your area, with the project site and structures clearly marked on the map.	



S:\ENGINEERING PROJECTS\FHR\HMGF_1609-48-R\FLOWCS\PERMIT\08-1063-COVER.dwg (SITE MAP) Jan 11, 2010 - 11:47am jharmon

SITE MAP
TOWN OF FORT MYERS BEACH
FEMA HMGP 1609 - 48 - R
FORT MYERS BEACH, LEE COUNTY, FLORIDA
APPLICATION NUMBER: 091019-6

ECT
 Environmental Consulting & Technology, Inc.
 4100 CENTER POINTE DRIVE, SUITE 112
 FORT MYERS, FLORIDA 33916
 Tel (239) 277-0003 Fax (239) 277-1211