

**NPDES ANNUAL REPORT  
Phase II MS4 Permit ID # FLR04E106**

**PHASE II MS4 ANNUAL REPORT** for Permit Year:  1  2  3  4  5 Other: \_\_\_\_\_

Instructions for completing this form:

- Complete Sections I through V and submit to the Department to fulfill the annual reporting requirement under the Generic Permit for Discharge of Stormwater from Phase II Municipal Separate Storm Sewer Systems, Rule 62-621.300(7)(a), F.A.C.
- The numbering and references to Best Management Practices (BMPs) on the Annual Report Form should reflect the information given in the MS4's Notice of Intent (NOI) form previously submitted to the Department. **PLEASE REFER TO ORIGINAL AND APPROVED PHASE II MS4 NOI SUBMITTAL WHILE COMPLETING SECTION II OF THIS FORM.** Proposed changes to the approved SWMP shall be indicated in Section III of this form.
- When complete, submit this Annual Report form to the following address:  
 NPDES Stormwater Section  
 Florida Department of Environmental Protection  
 2600 Blair Stone Road  
 M.S. 2500  
 Tallahassee, FL 32399-2400.
- Do **NOT** include any attachments **EXCEPT** for Monitoring Data in Section IV, if applicable.

**SECTION I. PHASE II MS4 OPERATOR INFORMATION**

<b>A.</b>	Name of the Phase II MS4 Operator: <b>Lake County Board of County Commissioners</b>		
<b>B.</b>	Name of the Phase II MS4 Responsible Authority: <b>Jim Stivender, Jr., P.E., P.L.S.</b>		
	Title: <b>Director of Public Works</b>		
	Mailing Address: <b>437 Ardice Avenue</b>		
	City: <b>Eustis</b>	Zip Code: <b>32726</b>	County: <b>Lake</b>
	Telephone Number: <b>(352) 483-9005</b>		
<b>C.</b>	Name of the Designated Phase II MS4 Stormwater Management Program Contact: <b>Mary Hamilton</b>		
	Title: <b>Stormwater Project Manager</b>		
	Department: <b>Lake County Department of Public Works</b>		
	Mailing Address: <b>437 Ardice Avenue</b>		
	City: <b>Eustis</b>	Zip Code: <b>32726</b>	County: <b>Lake</b>
	Telephone Number: <b>(352) 483-9080</b>		
	E-mail Address: <b>mhamilton@lakecountyfl.gov</b>		
<b>D.</b>	Location of the Phase II MS4 (if different than the mailing address in Section I.C. above): <b>Same as above</b>		
	Street Address:		
	City:	Zip Code:	County:

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**SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES**

Indicate the Phase II MS4 status of compliance in terms of progress toward each of the measurable goals described in the generic permit. Refer to the NOI for a list of the specific BMPs and Measurable Goals the Phase II MS4 committed to perform and track. Changes which will result in deviation from the NOI should be listed in Section III of this form. Include activities for all reporting periods (permit years) in this section. A summary of results is expected for the current reporting period but may be added to results from previous annual report periods. A summary of results is not expected for future reporting periods, but the anticipated BMPs, measurable goals and schedules for future reporting periods should be provided in this section.

Element ID/BMP #		A BMP Description	B Measurable Goal	B Schedule for Implementation/ Completion	C Summary of Results
1a	01	<b>Stormwater Education Presentations</b>	Report the number of presentations and report the number of participants and cumulatively.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 115 presentations to youth groups with 2,020 attendees, 21 presentations to adult groups with 1,068 attendees. Adult presentations included: <ul style="list-style-type: none"> <li>• Water Quality Projects in the Upper Ocklawaha</li> <li>• The Floridan Aquifer, Our Treasure Below</li> <li>• Waterwise Landscaping</li> <li>• Best Management Practices for Shorelines</li> <li>• Florida’s Water: It’s Worth Saving</li> </ul>
1a	02	<b>Educational web page</b>	Survey customers of County Departments as to use and familiarity with web page. Report numbers of positive responses.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 102 surveys completed, mostly positive comments with suggestions on photos, mapping capabilities; 5 volunteers (8 hours) for the survey compilations.  Attendants are invited to complete the surveys at the stormwater related public events / meetings. Participants are provided a flyer containing the Lake County Public Works website address. <a href="http://www.lakecountyfl.gov/departments/public_works/">http://www.lakecountyfl.gov/departments/public_works/</a>  The Employee Intranet now has a link to provide a complete Illicit Discharge Training including: 1) A Manual 2) A Powerpoint Presentation, and 3) A Test, which is forwarded to the Stormwater Project Manager once completed.

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1a	03	<b>Water Resource Atlas</b>	Survey customers of County Departments as to use and familiarity with web page. Report numbers of positive responses. Determine the feasibility of tracking "hits" as a future program upgrade.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – Citizen comment form on website: 80 comment forms submitted with multiple suggestions (data questions, comments, photos, volunteering). Tracking "hits" = 1,550,604 (159,796 "visits") Website Address: <a href="http://www.lake.wateratlas.usf.edu/">http://www.lake.wateratlas.usf.edu/</a> . The Atlas had two additions in Year 4: 1. Stormwater Infrastructure Mapping Feature 2. Stormwater Digital Library  The Lake County Water Atlas contains a "Report Water Pollution" link on the front web page, 3 reports for Year 4. Each report was investigated by Environmental Compliance and Enforcement - No illicit discharges found. The reports were related to trash/tree debris in the road right-of-way.
1a	04	<b>Special Events</b>	Report number of events and the number of participants	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 12 Special Events, 5,155 participants, 505 volunteers (1,971 hours). Some events included: <ul style="list-style-type: none"> <li>• Pollution Roundup</li> <li>• Splash Into Science</li> <li>• Ibini Tera Lake Clean-Up Day</li> <li>• Lake County Fair</li> <li>• Earth Day</li> </ul>

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1a	05	<b>Publications Distribution</b>	Report number of publications distributed at presentations, special events, and permanent displays.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 7,175 Stormwater related materials distributed to participants during special events, SJRWMD publications: <ul style="list-style-type: none"> <li>• Neighborhood Guide to Stormwater Systems</li> <li>• Stormwater Fact Sheet</li> <li>• Stormwater Consequences</li> <li>• Waterwise Landscaping Guide</li> <li>• Wetlands Brochure</li> </ul>
1a	06	<b>Media Outreach</b>	Report the number of educational discussions via radio, newspaper, and/or television	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 8 Presentations, 8,000 participants. These Radio programs are a 1-hour show on WLBE. The WAV representative discusses water quality topics (volunteer opportunities, shoreline BMPs, reducing chemicals in the yard, etc.) Twice a year, WAV discusses the same items on WVLG.
2a	01	<b>Adopt-A-Stormdrain and Adopt-A-Roadway</b>	Report activities, number of participants, and number of structures involved.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 38 Adopt-A-Roadway groups, 952 participants (1,383 hours), 820 trash bags collected; 3 Adopt-A-Stormdrain participants, 36 volunteer hours; Debris collected and removed: 724 garbage bags.

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2a	02	<b>Public Stormwater Meetings</b>	Report the number of public meetings that address stormwater and report the number of participants at these meetings.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – One presentation to the Royal Trails neighborhood about their stormwater problems, water quality, and maintenance (29 attendees, 11/08/07), two (2) Upper Ocklawaha BWG public meetings (approximately 40 attendees each: 2/13/08, 8/28/08), and Three (3) TWG Teleconferences (11/14/07, 3/19/08, 7/31/08).
2a	03	<b>Water Quality Monitoring</b>	Report number of lake sites monitored, number of participants, and volunteer hours involved.	Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – The Adopt-a-Lake Program consisted of 45 sites being monitored and 330 volunteer hours. 136.5 miles of Lake shoreline were adopted with 116.5 bags of trash removed, and 870 feet of fishing monofilament was collected from bins at the boat docks. The following public education webpage has been added to the County website. <a href="http://www.lakecountyfl.gov/departments/environmental_utilities/adopt_a_lake/">http://www.lakecountyfl.gov/departments/environmental_utilities/adopt_a_lake/</a> Downloadable Brochures are located on the web page.
3a	01	<b>Inventory of Stormwater Systems County-wide</b>	Report on percentage of inventory completed or the number of outfalls mapped each year	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – Total of 80 outfalls mapped and in the County's Cartegraph database, from the completion of the Lower Palatlahaha Basin Study.  In Year 5, GPS will be used by the Stormwater Inspectors to locate the illicit discharges found.

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3b	01	<b>Prohibit Bypass of Pollution Control/Abatement Structures Section 6.11.00.D.2.d of the Lake County Land Development Code (LDC)</b>	1. Provide illicit discharge language in LDC.  2. Report the number of violations and corrective actions.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	<p>The NPDES Illicit Discharge Ordinance No. 2007-50 became effective on 11/15/07 (Year 4). The ordinance provides guidance on what constitutes an illicit discharge, a Best Management Practice (BMP), and provides County staff with inspection access and enforcement.</p> <p>The inspectors use the new contour aerials to target inspections, which were generated with lidar data. They also respond to calls from the public and other departments on suspected dumpings/illicit discharges. There were no Illicit Discharges discovered in Year 4.</p>
3c	01	<b>Illicit Discharge Detection Program</b>	1. Obtain Illicit Discharge staff and train, report number.  2. Report on investigative procedures and number of flows investigated.	Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	<p>Permit Year 4 – Two (2) Stormwater Inspectors were hired in Year 4. Finalized Ordinance, the approval process was through Year 3, adopted on 11/15/07 (Year 4).</p> <p>The County completed the LIDAR 1-ft contour data for the entire county. Staff performed 746 pro-active Illicit Discharge inspections, none found.</p>

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3d	01	<b>An educational program exists to inform the <u>general public</u> of the hazards associated with improper disposal of waste</b>	Report on activities, numbers of presentations, and numbers of attendees at presentations.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – “Pollution Prevention Week” Proclamation was announced at the 9/02/2008 BOCC meeting with 50 participants (9/14/08 to 9/20/2008); Had displays from 9/12 to 9/14 at the Lake Square Mall Home “Style” Expo to kick-off Pollution Prevention Week.  The Household Hazardous Waste Mobile Units performed 33 visits and collected 70,500 lbs. E-cycling collected = 300,190 lbs, Waste = 722,382 lbs, and 241,845 lbs hazardous materials for disposal. 20,188 Gallons of used motor oil was collected from the citizens and disposed of by the County.

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Element ID/BMP #		A BMP Description	B Measurable Goal	B Schedule for Implementation/ Completion	C Summary of Results
3d	02	<b>An educational program exists to inform <u>County employees</u> of the hazards associated with improper disposal of waste</b>	Report on activities, numbers of presentations, and numbers of attendees at presentations.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	<p>Permit Year 4 – In September 2007, Lake County hosted the “Employee Health and Wellness” Fair. The Environmental Utilities Public Education Specialist set up a Household Hazardous Waste booth and provided information to employees. Also, a Mobile Unit waste collector was available on-site for employees.</p> <p>One Illicit Discharge Staff training session was held with 25 participants.</p> <p>In May 2008, Lake County staff invited Orange County staff to tour their Central Solid Waste Facility in order to share information/experiences. Also, the “Environmentally U Days” (2 days) were held for County employees to educate other departments about their environmentally protective procedures and share ideas.</p>
3d	03	<b>An educational program is under development to inform <u>businesses</u> of the hazards associated with improper disposal of waste</b>	Report on activities, numbers of presentations, and numbers of attendees at presentations.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	<p>The Stormwater Department is planning (Year 5) a training session to educate County Inspectors on how to visit local businesses (auto body shops, gas stations, etc.) and provide educational material on proper disposal of wastes and avoiding discharges to the MS4.</p>

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Element ID/BMP #		A BMP Description	B Measurable Goal	B Schedule for Implementation/ Completion	C Summary of Results
4a	01	<b>Retain Soils on Site During Construction Update the Land Development Code (LDC) language</b>	Make revisions available for public comment. Report on comments and number of comments received	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	<p>The Lake County Lot-Grading Ordinance No. 2008-60 was made effective in Year 4 (effective 9/12/08) after an extensive public meeting and comment period. There were two (2) noticed meetings held for public comments prior to Board adoption. This ordinance satisfies BMPs 4a-01 and 4b-02 (Retain Soils On-Site and Erosion Control Plan). The Lot Grading Ordinance prohibits the erosion of soils during construction (requires BMPs), provides guidance on mass grading, and requires stormwater management.</p> <p>At the time of effectiveness, there were no plans approved under the ordinance within Year 4.</p>
4b	01	<b>Erosion Control Plan Update the Land Development Code (LDC) language</b>	Make revisions available for public comment. Report on comments and number of comments received	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	<p>The Lake County Lot-Grading Ordinance No. 2008-60 was made effective in Year 4 (effective 9/12/2008) after an extensive public meeting and comment period. There were two (2) noticed meetings held for public comments prior to Board adoption. This ordinance satisfies BMPs 4a-01 and 4b-02 (Retain Soils On-Site and Erosion Control Plan). The Lot Grading Ordinance prohibits the erosion of soils during construction (requires BMPs), provides guidance on mass grading, and requires stormwater management.</p> <p>At the time of effectiveness, there were no plans approved under the ordinance within Year 4.</p>

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Element ID/BMP #		A BMP Description	B Measurable Goal	B Schedule for Implementation/ Completion	C Summary of Results
4c	01	<b>Waste Control Plan Update the Land Development Code (LDC) language</b>	Make revisions available for public comment. Report on comments and number of comments received	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	The Land Development Code, Chapter 14 (14.07.05) D (3) (12) states that County Inspectors will check for dumpster pads. Inspectors confirm that debris is not buried or burned on site. This BMP is not scheduled for LDC update (requested change located in Section III).  Currently, the Construction/Stormwater Inspectors review the site for proper waste control (627 inspections in Year 4). The County is updating the "Stormwater Inspection Form" to include the waste control component.
4d	01	<b>Site Plan Review Update the Land Development Code (LDC) language</b>	Report activities and track the number of site plans reviewed for construction stormwater management.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 8 Subdivision Site Plan Reviews with 3 approvals within the permit year, 131 Development Site Plan Reviews with 97 approved within the permit year; Total = 139 Reviews, 101 Approved Plans

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Element ID/BMP #		A BMP Description	B Measurable Goal	B Schedule for Implementation/ Completion	C Summary of Results
4e	01	<b>Problem Area Received Calls and Tracking</b>	Report on activities and track the number of comments / complaints received from the public regarding construction stormwater management.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 137 stormwater complaints received by the Public Works staff related to structures and swales, which were cleaned, repaired, or replaced. Each complaint was investigated by staff.  The Lake County Water Atlas contains a “Report Water Pollution” link on the front web page, 3 reports for Year 4. Each report was investigated by Environmental Compliance and Enforcement - No illicit discharges found (BMP 1a 03). The reports were related to trash/tree debris in the road right-of-way.
4f	01	<b>Construction Inspection</b>	Report on activities and track the number of inspections performed for construction stormwater management	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – 627 Stormwater field inspections of construction sites.

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6a	01	<b>Standard Operating Procedures (SOPs) for Material Handling Program Development</b>	Organize the County's Material Handling SOPs into one program. Educate the public on material handling where appropriate.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – The Fleet Department is working towards compilation of a SOP for the material handling at the maintenance yards.  The WAV Coordinator and Stormwater Inspectors are working on a program to provide educational information to businesses that handle materials that could enter the stormsewer system (to be reported in future annual reports under the public outreach BMP).
6a	02	<b>MS4 Maintenance Database</b>	Implement Maintenance Database and report on the number of structures in the inventory and the number maintained per permit year.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	Permit Year 4 – County consultant has inventoried: 1,031 Retention / Detention Ponds, 10,939 Pipe Culverts, and 14,533 Inlets / Manholes / Outlets (Approximately 65%), and 3,465 Channels.  County Contractor: 3,599 LF of drainage pipe cleaned, 10 Manholes cleaned, 198 LF of drainage pipe replaced, 2,412 LF of pipe video, 182,892.5 LF of swales regraded, 504.23 tons of debris removed. Tires removed = 20.34 tons.

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6b	01	<b>Stormwater Pollution Prevention Employee Training</b>	Educate employees about techniques to reduce stormwater pollution.	Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5	<p>Permit Year 4 – Held an “Illicit Discharge” Training for County employees in July 2008 (BMP 3c 01).</p> <p>Began a County initiative to establish a “Green Team” among County Departments for resource conservation. Two (2) meetings were held in February 2008. An outreach effort to the public is planned.</p> <p>In Year 5, updated the County employee Intranet to include under Policies and Procedures, Illicit Discharge: 1. Manual; 2. Presentation; 3. Test (results are forwarded to the Stormwater Project Manager). Twelve (12) County employees were trained in Permit Year 3 at the FDEP Stormwater, Erosion, and Sedimentation Control Inspector Training and Certification Program.</p>

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6c	01	<b>Fleet Department Waste Disposal Records</b>	Track the disposal of used Fleet materials to protect the maintenance yards from discharging pollutants to the MS4.	Permit Year 3 Permit Year 4 Permit Year 5	<p>The Fleet Department disposes of possible pollutants from the facility by using three (3) Contractors for the used oil, anti-freeze, oil filters, sludge, vehicle parts cleaners, used batteries, and clean-up materials. These materials are disposed of off-site by the contractors: Atlantic Industrial Services, Inc, Safety-Kleen Systems, Inc., and Battery USA. The quantities are provided from the Contractor's invoices. It should be noted that the storage of these drums and containers is under cover in the facility yard garage.</p> <p>Three (3) County Contractors disposed of the waste materials, which are recorded in the invoices. Safety-Kleen disposed of 220 gallons of waste combustible liquid, Atlantic Industrial Services disposed of 165 gallons of contaminated soil, and Battery USA disposed of 124 used auto batteries.</p>

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**SECTION III. CHANGES TO STORMWATER MANAGEMENT PROGRAM**

Assess the appropriateness of each BMP that has been implemented and provide a list of changes in the space below. Include proposed changes to BMPs, Measurable Goals, or Implementation Schedules, and justification for changes. Also report new BMPs that have been added to the Stormwater Management Program in this section. Add pages if more room is needed. Include the Element ID as it is listed on the submitted NOI. BMP Number should be indicated as listed on the NOI, unless a new BMP is being proposed. Include Element ID on all extra pages; include BMP number for all changes to BMPs previously listed on NOI.

<b>Element ID</b>	<b>BMP Number (where applicable)</b>	<b>Proposed Change or New BMP Description and Justification</b>
3d	01	Per the FDEP Inspector's suggestion from the Year 3 Annual Report Audit, this BMP has been broken into 3 separate BMPs (3d-01, 3d-02, and 3d-03). The education of the general public, County employees, and businesses of the improper disposal of waste will be reported individually.
4a	01	In lieu of "Make revisions available for public comment. Report on comments and number of comments received" for these BMPs (which are no longer applicable), we would like to report the number of construction sites operating under the already implemented Ordinance No. 2008-60 for BMP 4a01 and 4b01 and the existing Land Development Code, Chapter 14 (14.07.05) D (3) for BMP 4c01.
4b	01	
4c	01	

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**SECTION IV. INDEPENDENT MONITORING AND RELIANCE ON ANOTHER ENTITY**

A.	<p>Please indicate whether the Phase II MS4 performed independent monitoring. If yes, please attach monitoring data collected during reporting period.</p> <p><input type="checkbox"/> The MS4 performed independent monitoring during the reporting period, (Attach monitoring results to this Annual Report form).</p> <p><input checked="" type="checkbox"/> The MS4 did <b>NOT</b> perform independent monitoring during the reporting period.</p>		
B.	<p>Please indicate which elements of the Stormwater Management Plan the Phase II MS4 is relying on another entity to satisfy. Include New or revised BMP activities that met this criteria. NOTE: These elements should also be listed in Sections II or III of this form.</p>		
	<b>Element #</b>	<b>BMP #</b>	<b>Name of Responsible Entity</b>
			<b>None</b>

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**SECTION V. CERTIFICATION STATEMENT AND SIGNATURE**

*The Responsible Authority listed in Section I.B. of the Annual Report form must sign the following certification statement:*

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

Name of Phase II MS4 Responsible Authority (type or print):		<b>Jim Stivender, Jr., P.E., P.L.S.</b>	
Title:	<b>Director of Public Works</b>		
Signature:		Date:	/ /