LAKE COUNTY
FLORIDA

October 29, 2013

Ms. Kathleen Downey
NPDES Phase II Coordinator
NPDES Stormwater Notices Center
Florida Department of Environmental Protection
2600 Blair Stone Road
M.S. 2510
Tallahassee, FL 32399-2400

Re: Lake County – FLR04E106: NPDES Phase II Permit 2 – Year 4 Annual Report

Dear Ms. Downey:

Please find attached Lake County Public Works NPDES Phase II Permit 2 – Year 4 Annual Report for review and approval. We have included one (1) original, as requested.

If you have any questions or need additional information, please contact me directly at (352) 483-9080, or via email at nmcray@lakecountyfl.gov.

Sincerely,

Nicholas Mcray
Stormwater Project Manager

Enclosure: One (1) original of the NPDES Phase II Annual Report

cc: Jim Stivender, Public Works Director
Mary Hamilton, Environmental Services Division Manager
Timothy Kelley, AMEC Engineering

LAKE COUNTY PUBLIC WORKS | ENVIRONMENTAL SERVICES DIVISION
437 ARDICE AVE. ♦ EUSTIS, FL 32726 ♦ P 352.483.9080 ♦ F 352.483.9082
Board of County Commissioners • www.lakecountyfl.gov

TIMOTHY I. SULLIVAN *District 1* | SEAN M. PARKS, *AICP, QEP* *District 2* | JIMMY CONNER *District 3* | LESLIE CAMPIONE *District 4* | WELTON G. CADWELL *District 5*

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

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

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	C Schedule for Implementation/Completion	D Summary of Results
_1a	01	**Stormwater Education Presentations** The County has entered into a formal contract with WAV/SJRWMD to conduct school and homeowner group (HOA) presentations that include stormwater and water quality topics.	1. Report the number of presentations for schools and adults. 2. Report the number of attendees.	1. Year 1 – Year 5 2. Year 1 – Year 5	12 School presentations with 1,333 students reached, 7 adult presentations with 845 adults reached. Presentations included stormwater, water quality, and shoreline restoration topics.
_1a	02	**Lake County Educational Web Page** The Lake County Public Works web page includes Stormwater, NPDES, Basin Studies, and Adopt-a-Lake information.	1. Report the number of web page hits. 2. Report the number of citizen surveys.	1. Year 1 – Year 5 2. Year 1 – Year 5	There were 859 unique page hits. 133 various surveys were received.
_1a	03	**Lake County Water Atlas** The County has entered into a formal contract with the University of South Florida to provide an interactive water quality website to the citizens.	1. Report the number of web page hits. 2. Report on enhancements to the atlas. 3. Report the number of citizen comments.	1. Year 1 – Year 5 2. Year 1 – Year 5 3. Year 1 – Year 5	Deleted per Permit Year 2 – Annual Report.

SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES

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Element ID/BMP #		A	B	C	D
_1a	04	**Special Events** The WAV coordinator provides presentations to groups related to environmental issues. At each presentation, there is stormwater information panels displayed and water quality is addressed.	1. Report the number of events. 2. Report the number of attendees. 3. Report the number of volunteers (hours). 4. List the event names.	1. Year 1 – Year 5 2. Year 1 – Year 5 3. Year 1 – Year 5 4. Year 1 – Year 5	One special event was conducted at the Lake County Fair Information booth. There were 400 attendees. Volunteers accounted for approximately 216 volunteer hours.
_1a	05	**Publications Distribution** Stormwater / water quality related brochures are distributed by the WAV Coordinator and volunteers at the various events.	1. Report the number of distributed material. 2. List the publication names.	1. Year 1 – Year 5 2. Year 1 – Year 5	Distributed 97 of the "Only Rain Down the Drain" door hangers. Brochures were distributed in these residential areas: 1. Terrace Grove 2. Grand Island Ridge 3. Biscayne Grove 4. Grand Island Estates 5. Biscayne Bluff 6. Wolfbranch Meadows

SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES

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Element ID/BMP #		A	B	C	D
_1a	06	**Media Outreach** The WAV Coordinator discusses water quality topics ranging from upcoming volunteer opportunities, to shoreline Best Management Practices (BMP), to ways to reduce chemicals in the yard.	1. Report the number of radio presentations. 2. Report the number of listeners (radio audience).	1. Year 1 – Year 5 2. Year 1 – Year 5	The Adopt-a-Lake Coordinator made a television presentation on water quality and volunteer opportunities on Hawthorne TV reaching an estimated audience of 1000 households in the community. Public Works Solid Waste Division hosted a hazardous waste collection in Umatilla encouraging residents to dispose of toxic materials. The Solid Waste Division mobile unit outreach program hosted 16 events collecting approximately 57,200 pounds. Event information was advertised in various media via press release. The schedule is published on the Solid Waste website. Career Day event was hosted at Umatilla High School relating to Adopt-A-Lake program.

SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES

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Element ID/BMP #		A	B	C	D
_2a	01	**Adopt-a-Stormdrain Program and Adapt-a-Roadway Program** The program is volunteer-based and focuses on keeping the stormdrains clear to prevent polluting the lakes.	1. Report the number of volunteers/ groups. 2. Report the number of volunteer hours. 3. Report the number of bags removed.	1. Year 1 – Year 5 2. Year 1 – Year 5 3. Year 1 – Year 5	Adopt a Stormdrain had one event with 20 participants and 67 stormdrains being tagged. Staff tagged an additional 91 stormdrains during the reporting period, and Adopt-a-Roadway Program had 23 groups, 474 participants (67 hours) with 366 trash bags collected.
_2a	02	**Public Stormwater Meetings** The County hosts and participates in meetings concerning the Stormwater Master Plans and the TMDLs of the basin. Topics range from maintenance problems to water quality retrofit projects.	1. Report the number of Board presentations. 2. Report the number of neighborhood presentations. 3. Report the number of FDEP Upper Ocklawaha meetings.	1. Year 1 – Year 5 2. Year 1 – Year 5 3. Year 1 – Year 5	There were 3 Board presentations. 1 neighborhood presentation No FDEP Upper Ocklawaha meetings were held. The County did attend 5 other FDEP TMDL/ BMAP meetings for Wekiva and Silver Springs.

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Element ID/BMP #		A	B	C	D
_2a	03	**Water Quality Monitoring** The Adopt-a-Lake (AAL) Program uses the County's lab and volunteers to gather water quality data. The AAL also involves shoreline litter removal and fishing line recycling (bins installed by volunteers at docks).	1. Report the number of volunteers / groups. 2. Report the number of volunteer hours. 3. Report the number of bags removed. 4. Report the feet of monofilament recycled.	Year 1 – Year 5 Year 1 - Year 5 Year 1 – Year 5 Year 1 – Year 5	Adopt-a-Lake program consisted of 4 sites being monitored with a total of 1,104 volunteer hours logged. 36 bags of trash were removed and 60,812 feet of monofilament recycled. Career Day event was hosted at Umatilla High School relating to Adopt-A-Lake program.

SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES

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Element ID/BMP #		A BMP Description	B Measurable Goal	C Schedule for Implementation/Completion	D Summary of Results
_3a	01	**Inventory of Stormwater Systems** Through the County's numerous basin studies, the stormwater inventory system has been mapped in GIS. This effort was completed in Permit 1. The County will use GPS to map new outfalls and perform Illicit Discharge inspections.	1. Report the number of new outfalls inventoried.	Year 1 – Year 5	The inventory activity was completed in Permit Year 1. There were no new outfalls mapped during this reporting period.
_3b	01	**NPDES Illicit Discharge Ordinance** Ordinance No. 2007-50 effectively defines and prohibits non-stormwater discharges into the MS4 and provides the County Inspectors with enforcement authority.	1. Report any amendments to the ordinance	Year 1 – Year 5	There were no amendments to this ordinance.
_3c	01	**Illicit Discharge Detection Program** The County performs re-active and pro-active inspections to specifically identify discharges including illegal dumping. All illicit discharges are investigated and eliminated if possible.	1. Report the number of inspections. 2. Report the number of discharges found. 3. Report the number of discharges eliminated.	Year 1 – Year 5 Year 1 – Year 5 Year 1 – Year 5	A total of 2,193 inspections were completed with no code enforcement cases. No illicit discharges were found therefore no discharge eliminations were required.

SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES

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Element ID/BMP #		A **BMP Description**	B **Measurable Goal**	C **Schedule for Implementation/Completion**	D **Summary of Results**
_3d	01	**Illicit Discharge Detection Education Program – *Public*** The County has events, presentations, and materials that are supplied to the public regarding pollution prevention in the WAV Program and the County's Environmental Utilities Public Outreach Coordinator	1. Report on the activities for Pollution Prevention week. 2. Report on the number of attendees. 3. Report on the Waste removal efforts.	Year 1 – Year 5 Year 1 – Year 5 Year 1 – Year 5	Pollution Prevention consisted of 22 cleanup activities with 58 volunteer hours collecting a total of 36 bags.
_3d	02	**Illicit Discharge Detection Education Program – *County Employees*** The County has events, presentations, and materials that are supplied to County employees regarding pollution prevention in the WAV Program and the County's Environmental Utilities Public Outreach Coordinator.	1. Report on the activities for Pollution Prevention week. 2. Report on the number of attendees. 3. Report the number of employee trainings.	Year 1 – Year 5 Year 1 – Year 5 Year 1 – Year 5	The County hosted 1 pollution prevention training focused on sedimentation control which had 37 attendees. 2 Stormwater Section employee trainings were also conducted.

SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES

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Element ID/BMP #		A **BMP Description**	B **Measurable Goal**	C **Schedule for Implementation/Completion**	D **Summary of Results**
_3d	03	**Illicit Discharge Detection Education Program – *Businesses*** The County is planning to implement a business education program that includes having the WAV Coordinator and the Stormwater Inspectors visiting local businesses and providing informational brochures about oil disposal, kitchen grease, MS4 protection measures, etc.	1. Report on the status of the Stormwater Inspector trainings for business education. 2. Report on the number of businesses visited. 3. List the types of businesses reached.	Year 1 – Year 5 Year 1 – Year 5 Year 1 – Year 5	Illicit discharge training continued this past year with 83 visits to auto service establishments, and 22 site visits to restaurant establishments.

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Element ID/BMP #		A BMP Description	B Measurable Goal	C Schedule for Implementation/Completion	D Summary of Results
_4a	01	**Retain Soils On-Site During Construction** The Lot-Grading Ordinance No. 2008-60 provides guidelines and enforcement authority for the County to inspect for retention of soils on-site and erosion and sedimentation protective measures during construction.	1. Report any amendments to the ordinance.	Year 1 – Year 5	There were no amendments reported to the ordinance.
_4b	01	**Erosion Control Plan** The County requires all construction site operators to implement effective erosion and sedimentation controls per Ordinance No. 2008-60.	1. Report the number of plans approved under the ordinance.	Year 1 – Year 5	1789 plot plans were reviewed and approved.
_4c	01	**Waste Control on Construction Sites** The County requires all construction sites to implement effective waste controls per the Land Development Regulations Chapter XIV (14.07.05 – Construction Requirements).	1. Report the number of active construction sites operating under LDR 14.07.05.	Year 1 – Year 5	7 active construction sites operated under this regulation.

SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES

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Element ID/BMP #		A BMP Description	B Measurable Goal	C Schedule for Implementation/Completion	D Summary of Results
_4d	01	**Site Plan Review** The County reviews all construction site plans for erosion and sedimentation controls and construction site waste control. The County maintains a log of the reviewed and approved plans.	1. Report the number of site plans reviewed. 2. Report the number of site plans approved.	Year 1 – Year 5 Year 1 – Year 5	No site plans were reviewed. There number of site plans approved was 0.
_4e	01	**Public Stormwater Complaints – Telephone Calls** Stormwater related complaints are received from various County Departments. The Road Operations department organizes them into the Cartegraph system.	1. Report the number of stormwater related complaints.	Year 1 – Year 5	178 stormwater complaints were received and addressed.
_4e	02	**Public Stormwater Complaints – Web Water Atlas** The Lake County Water Atlas contains a "Report Water Pollution" link on the front web page. Reports are investigated by the applicable department staff.	1. Provide the "Report Water Pollution" number of complaints.	Year 1 – Year 5	Deleted per Permit Year 2 Annual Report.

SECTION II. SUMMARY OF STORMWATER MANAGEMENT PROGRAM ACTIVITIES

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Element ID/BMP #		A	B	C	D
		BMP Description	**Measurable Goal**	**Schedule for Implementation/Completion**	**Summary of Results**
_4f	01	**Construction Site Inspection Program** County Stormwater and Construction Inspectors inspect all construction projects and enforce Ordinance No. 2007-50, Ordinance No. 2008-60, and Chapter 14.07.05 of the Land Development Regulations.	1. Report the number of construction site inspections. 2. Report the number of enforcement actions.	Year 1 – Year 5 Year 1 – Year 5	There were 54 Construction Inspections of County Projects and 1789 Stormwater Inspections of individual lots conducted. No enforcement actions were reported.

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_6a	01	**Standard Operating Procedures (SOPs) for Material Handling Program Development** The Fleet Department is working on a SOP Manual for the Fleet employees.	1. Report on the number of SOPs developed.	Year 1 – Year 5	The County Fleet Maintenance facility moved during this reporting period and updated one SOP to reflect changes for the new site.
_6a	02	**MS4 Maintenance Database** The County compiles the numbers of MS4 pipes and structures that are cleaned, repaired, and replaced for the permit year.	1. Report on the numbers of pipes and structures maintained.	Year 1 – Year 5	252 Pipes and structures were maintained. 221,450 feet of swales and 2,556 feet of pipe were cleaned and inspected.

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Element ID/BMP #		A **BMP Description**	B **Measurable Goal**	C **Schedule for Implementation/Completion**	D **Summary of Results**
_6b	01	**Stormwater Pollution Prevention Training** Pollution Prevention training is provided to Public Works staff and other departments. The training educates employees on NPDES requirements and how to look for illicit discharges. Also, the Employee intranet includes: 1) An Illicit Discharge Manual, 2) Presentation, and 3) Test that is forwarded to the Stormwater Department Project Manager.	1. Report on the number of training sessions. 2. Report on the number of employee tests submitted via the County intranet. 3. Report on the number of employees that attend the FDEP Erosion and Sedimentation training.	Year 1 – Year 5 Year 1 – Year 5 Year 1 – Year 5	2 Pollution Prevention training sessions were held. 4 employee tests were submitted via the County intranet. 4 employees attended FDEP Erosion and Sedimentation training. (Note: Training sessions are performed periodically based on need and were held in Permit Year 3).
_6c	01	**Fleet Department Waste Disposal Records** The Fleet Department tracks the material disposal of the maintenance yard to prevent discharges to the MS4. Waste fluids such as used oil, used batteries, and flammable liquids are collected on site and recycled from a contracted vendor.	1. Report on the number and types of materials removed.	Year 1 – Year 5	County Contractors disposed of waste materials which are recorded in the invoices. Battery USA disposed of 243 batteries. Safety-Kleen disposed of 2,793 gallons of used oil, Petrotech disposed of 4,250 gallons of used oil, and 28 used oil filters.

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.

Element ID	BMP Number (where applicable)	Proposed Change or New BMP Description and Justification
		N/A

SECTION IV. INDEPENDENT MONITORING AND RELIANCE ON ANOTHER ENTITY

A. Please indicate whether the Phase II MS4 performed independent monitoring. If yes, please attach monitoring data collected during reporting period.

☐ The MS4 performed independent monitoring during the reporting period, (Attach monitoring results to this Annual Report form).
☒ The MS4 did **NOT** perform independent monitoring during the reporting period.

B. 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.

Element #	BMP #	Name of Responsible Entity
		N/A

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):	Jim Stivender, Jr., P.E., P.L.S.		
Title:	Director of Public Works		
Signature:		Date:	10 / 20 / 2018