



# Alachua County Environmental Protection Department

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Chris Bird, Director

August 3, 2009

Sally Adkins  
City of Gainesville  
Public Works, M.S. 58  
P.O. Box 490  
Gainesville, FL 32602-0490

RE: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM QUARTERLY  
REPORT. APRIL - JUNE, 2009. FY 2009 – THIRD QUARTER

Dear Ms. Adkins:

In accordance with the Interlocal Agreement between Alachua County and the City of Gainesville for the Establishment of an Illicit Discharge Detection and Elimination Program, enclosed please find the Illicit Discharge Detection and Elimination Report for the Third Quarter of Fiscal Year 2009 (April - June, 2009).

Please contact me at 264-6806 if you have any questions or need additional information.

Sincerely,

Agustin Omos, P.E.  
Water Resources Supervisor

cc: Chris Bird (email)  
Dave Cerlanek (email)  
Ha Nguyen (email)  
Stewart Pearson (email)  
Alan Obaigbena (email)  
Anthony Dennis (email)  
Anthony Cunningham (email)

# ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM QUARTERLY REPORT

**APRIL - JUNE 2009**  
**SECOND QUARTER – FY 2009**

## **SECTION 1: PROGRAM DESCRIPTION**

On September 20<sup>th</sup>, 2001 Alachua County, the City of Gainesville, and the Florida Department of Transportation (FDOT) signed an interlocal agreement for the joint implementation of the National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Separate Stormwater Systems (MS4) program in the Gainesville Urbanized Area. The agreement presented a financial plan for the implementation of the minimum control measures, including mapping requirements, public outreach, operations best management practices and illicit discharge detection and elimination program, required by the NPDES Phase II MS4 program. The agreement established the City of Gainesville as the lead agency for the joint implementation of the program.

On August 27<sup>th</sup>, 2002 Alachua County adopted the Water Quality Code. The Water Quality Code provided the regulatory framework for the implementation of the illicit discharge detection and elimination program in Alachua County. Specifically, Section 77.10 contained regulations regarding prohibitions on non-stormwater discharges into the MS4 system. The Water Quality Code became effective on January 1<sup>st</sup>, 2003.

On June 24<sup>th</sup>, 2003 Alachua County and the City of Gainesville signed an interlocal agreement for the establishment of the illicit discharge detection and elimination program. As part of the agreement, the Alachua County Environmental Protection Department (ACEPD) became the agency responsible for the implementation of the illicit discharge detection and elimination program to satisfy the NPDES Phase II MS4 permit requirements of Alachua County, City of Gainesville and FDOT. Individual NPDES Phase II MS4 permits were obtained by Alachua County on July 8<sup>th</sup>, 2003, City of Gainesville on July 8<sup>th</sup>, 2003, and FDOT on June 23<sup>rd</sup>, 2003.

This report presents a summary of the activities conducted during the Third Quarter of Fiscal Year 2009 (April - June 2009) by ACEPD staff as part of the illicit discharge detection and elimination program implementation for Alachua County, the City of Gainesville and FDOT as required by their respective NPDES Phase II MS4 permits.

## **SECTION 2: BMP 3C-03. FACILITY INSPECTION PROGRAM**

In order to comply with condition BMP3 C-03 of the NPDES permit, ACEPD expanded its existing Hazardous Materials Management Code (HMMC) and Small Quantity Generator (SQG) inspection program to include compliance with the requirements of Section 77.10 of the Alachua County Water Quality Code. The expanded inspection program included visual inspection of storm drains and storm water management system in the vicinity of each facility, visual inspection of floor drains inside the facility and when necessary collection of water quality samples.

Between April - June, 2009, ACEPD staff conducted a total of 94 inspections, including 70 routine and 24 follow-up inspections. Table 2.1 shows a summary of the inspections by ZIP code and Table 2.2 shows a summary of the inspection by Standard Industrial Category (SIC). No violations of the Alachua County Water Quality Code were observed during the compliance inspections. ACEPD recorded the latitude and longitude coordinates of each facility inspected for mapping purposes.

**Table 2.1 Facility Inspections by ZIP Code**

<u>Zip Code</u>	<u>Inspections</u>
32601	18
32608	16
32609	13
32607	10
32605	6
32606	6
32653	6
32669	5
32615	4
32640	4
32643	3
32614	1
32618	1
32641	1
<b>Total</b>	<b>94</b>

**Table 2.2 Facility Inspections by SIC Code**

<u>SIC Code</u>	<u>Inspections</u>	<u>SIC Code</u>	<u>Inspections</u>
5411	6	3851	1
5531	5	4812	1
7533	5	4841	1
8021	5	4941	1
7384	4	5122	1
7532	4	5231	1
7538	4	5261	1
6513	3	5541	1
7539	3	5551	1
8011	3	6399	1
8734	3	6411	1
2511	2	7011	1
4813	2	7216	1
4899	2	7335	1
5211	2	7353	1

7299	2	7359	1
7542	2	7537	1
7699	2	7692	1
781	1	7992	1
1771	1	7997	1
1794	1	8041	1
2741	1	8062	1
3241	1	8069	1
3273	1	9221	1
3281	1	9511	1
3669	1	9991	1
3721	1	<b>Total</b>	<b>94</b>

**SECTION 3: BMP 3C-04. COMPLAINT & SPILL RESPONSE PROGRAM**

In order to comply with condition BMP3 C-04 of the NPDES permit, ACEPD expanded its existing complaint and spill investigation program to include compliance with the requirements of Section 77.10 of the Alachua County Water Quality Code. In addition to the complaints received via phone and email, ACEPD staff is also part of the Alachua County notification system that provides 24-hours a day response to spills in the County.

Between April - June, 2009, ACEPD staff responded to a total of 10 water quality related complaints and spills. Table 3.1 shows a summary of the complaints and spills investigated by Type and Table 3.2 shows a summary of the complaints and spills by ZIP code. Investigation of the above referenced incidents resulted in the issuance of 2 civil citations. ACEPD recorded the latitude and longitude coordinates of each incident investigated for future mapping purposes.

**Table 3.1 Complaints by Type**

Type	Investigations
WasteWater	5
Water Quality	3
Hazmat	2
<b>Total</b>	<b>10</b>

**Table 3.2 Complaints by Zip Code**

Zip Code	Investigations
32601	4
32641	2
32606	1
32607	1

32615	1
32694	1
<b>Total</b>	<b>10</b>

#### **SECTION 4: BMP 3C-05. PUBLIC OUTREACH**

In order to comply with condition BMP3 C-05 of the NPDES permit ACEPD staff provided compliance assistance information and distributed Best Management Practices fact sheets as part of the facility inspection and complaint and spill investigation programs.

In April the sixth issue of the Wader, which focused on pet wastes, was released and sent to almost 400 citizens. The Wader is an electronic newsletter with a focus on outreach efforts of ACEPD and its partnering organizations. Staff had an information table at the following events: the Great American Clean up on 4/11/2009, the Harn Museum Earth Day Celebration on 4/18/2009, the 5<sup>th</sup> Ave Arts Festival on 4/19/2009, Earth Day at UF on 4/22/2009, the Apartment Complex Trade Show on 5/12/2009, the rain barrel sale on 5/23/2009, Splash into Science Night on 5/28/2009, and at the Paws on Parole event on 6/20/2009. Staff also discussed various water quality topics with students at Wiles Elementary School during a presentation and with UF students during a field trip for Dr. Cohen's Forest Resources Class.

A new Water Conservation BMP has been created and distributed. To date ACEPD staff has completed and distributed the following fact sheets:

- Water Quality Code Fact Sheet
- BMP for Erosion and Sedimentation Control at Construction Sites
- BMP for Controlling Runoff from Car Wash Fundraisers
- BMP for Controlling Runoff from Gas Stations
- BMP for Controlling Runoff from Commercial Outdoor Car Washing
- BMP for Water Quality Protection at Apartment Complexes
- BMP for Landscaping & Lawn Maintenance Services
- BMP for Controlling Runoff during the Remediation of Contaminated Sites
- BMP for Private Collection Systems
- Residential Swimming Pool Maintenance
- Pressure Washing Activities
- Laundry Services
- Food Service Industry
- Paint contractor
- Construction Project Erosion and Sediment Control
- Codes/Building Inspector Erosion and Sediment Control BMP
- Pet Waste and Water Quality
- Septic Tank BMP
- Water Conservation BMP

## **SECTION 5: SPECIAL PROJECTS**

### **Microbial Hot Spot Testing**

A Hot Spots Stakeholder group has formed to implement source detection and elimination strategies in the hot spots. The stakeholders include ACEPD, COG, GRU, and FDEP. PBS&J was hired to create a report on stakeholders' efforts. Stakeholders are close to finalizing the report.

ACEPD is conducting outfall surveys in the hot spots areas. Fecal coliform samples were collected from flowing stormwater manholes in the Elizabeth, Rattlesnake, and HOGGHSN hot spot watersheds. Two confirmed leaking wastewater pipes were located and repaired by GRU in the Rattlesnake Watershed. Stakeholders are still investigating the other watersheds.

### **Pet Waste**

ACEPD is conducting The Gainesville Clean Water Partnership funded social marketing based public outreach campaign designed to convince citizens to pick up after their pets. The campaign is called the Scoop the Poop campaign and the tagline is, "Scoop it, bag it, trash it!" Staff had an information table on the pet waste outreach campaign at the Great American Clean up event on 4/11/2009, the Harn Museum for the Earth Day Celebration on 4/18/2009, the 5<sup>th</sup> Ave Arts Festival on 4/19/2009, Earth Day at UF on 4/22/2009, the Apartment Complex Trade Show on 5/12/2009, Splash into Science Night on 5/28/2009, and at the Paws on Parole event on 6/20/2009. Staff has continued to keep local veterinarian offices stocked with pet waste BMPs and magnets. Two 15 second commercials were heavily aired from 3/23/09 – 4/22/2009.

### **Stream and Rainfall Gage Contractual Services**

The existing stream and rainfall gage network is as follows:

Hogtown Creek near Gainesville - at NW 16<sup>th</sup> Avenue  
Hogtown Creek near Arredondo - at SW 24<sup>th</sup> Avenue (CR 30)  
Tumblin Creek near Gainesville - at SW 13<sup>th</sup> Street  
Possum Creek in Gainesville - at NW 16<sup>th</sup> Avenue  
Little Hatchet Creek near Gainesville - at SR-24 (Waldo Road)  
Rain gage No. 2 at NE 8<sup>th</sup> Avenue and SR-24 (Waldo Road)  
Rain gage No. 3 at SR-20 and SE 27<sup>th</sup> Street (formerly No.1 located at SE 1<sup>st</sup> St. and SE 5<sup>th</sup> Ave.)

Alachua County contracted with Hydrologic Data Collection, Inc. for continued rainfall and stream gage services for fiscal year 2009. Data collection for all gages (stream and rainfall) continues throughout the remainder of the fiscal year at a total cost of \$17,727.00. Data collection activities continue. Stage data is collected from the recorders approximately every two months. Stage and discharge computations are delivered within 30 days of each data collection period. Computations include mean daily stage and discharge and unit values of the same at 15-minute intervals. Rainfall data is also collected on 15-minute intervals. For stream stations with only a stage recorder, efforts

are being made by the contractor to conduct manual velocity measurements under a variety of flow conditions to facilitate development of an accurate rating curve.

On April 15, 2008, Hydrologic Data Collection, Inc. submitted computations of mean daily stage, discharge and rainfall for October 1, 2008 through April 7, 2009, for the seven stations listed above. The data provided for stream gages included the following information: unit values (15-minute interval date, gage height and discharge), primary computations (hourly stage as max, min, and mean and mean discharge), mean daily discharge and stage, hydrograph, and a daily values table. Data for rainfall stations included unit values (in 15-minute intervals) and a summary table of daily values. On June 17, 2009 we received the data through June 9, 2009 (as described above). These data are available from ACEPD and summary data for the stations will be available on our website in the near future.

It is important to be able to accurately report the flow data for Hogtown Creek at SW 24<sup>th</sup> Avenue (CR30). Hydrologic Data Collection, Inc. has determined that under high water conditions there is backwater from Hogtown Prairie/Haile Sink that influences the stage and flow of Hogtown Creek at CR30. The station at CR30 has a long-term period of record (USGS and SJRWMD) and is a gage that the City of Gainesville has indicated is important to continue monitoring for use in flood modeling. Accurate data that takes into account the conditions at Haile Sink are very important. The purchase and installation of the gage and setup (shelter, transducer and cables) is estimated to cost \$4,014.13; annual monitoring of the gage would cost approximately \$1,600 per year. ACEPD recommends installation of the new gage (stage recorder) at Haile Sink to capture data related to water level increases from summer rainfall events.