



Alachua County Environmental Protection Department

Chris Bird, *Director*

May 4, 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.
January – March, 2009. FY 2009 – Second 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 Second Quarter of Fiscal Year 2009 (January – March, 2009).

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

Sincerely,

A handwritten signature in black ink, appearing to read "A. Olmos", is positioned above the printed name and title.

Agustin Olmos, P.E.
Water Resources Supervisor

cc:	Chris Bird (email)	John Mousa (email)	Anthony Dennis (email)
	Dave Cerlanek (email)	Ha Nguyen (email)	Kathy Fanning (email)
	Teresa Scott (email)	Stewart Pearson (email)	Alan Obaigbena (email)
	Paul Davis (email)	Rae Hafer (email)	

ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM QUARTERLY REPORT

**JANUARY – MARCH 2009
SECOND QUARTER – FY 2009**

SECTION 1: PROGRAM DESCRIPTION

On September 20th, 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 27th, 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 1st, 2003.

On June 24th, 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 8th, 2003, City of Gainesville on July 8th, 2003, and FDOT on June 23rd, 2003.

This report presents a summary of the activities conducted during the Second Quarter of Fiscal Year 2009 (January – March 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 January – March, 2009, ACEPD staff conducted a total of 71 inspections, including 57 routine and 14 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>
32609	23
32601	11
32608	10
32653	8
32606	3
32607	3
32615	3
32643	2
32669	2
32616	1
32631	1
32641	1
32656	1
32658	1
32694	1
Total	71

Table 2.2 Facility Inspections by SIC Code

<u>SIC Code</u>	<u>Inspections</u>
7538 - SERVICES - GENERAL AUTOMOTIVE REPAIR SHOPS	8
7533 - SERVICES - AUTO EXHAUST SYSTEM REPAIR SHOPS	5
4899 - TRANS. & UTILITIES - COMMUNICATION SERVICES NEC	4
5091 - WHOLESALE TRADE - SPORTING AND RECREATIONAL GOODS	4
7032 - SERVICES - SPORTING AND RECREATIONAL CAMPS	4
0781 - AGRICULTURE - LANDSCAPE COUNCELING AND PLANNING	3
1799 - CONSTRUCTION - SPECIAL TRADE CONTRACTORS, NEC	3
7537 - SERVICES - AUTOMOTIVE TRANSMISSION REPAIR SHOPS	3
7542 - SERVICES - CAR WASHES	3
8011 - SERVICES - OFFICES AND CLINICS OF MEDICAL DOCTORS	3
4492 - TRANS. & UTILITIES - TOWING AND TUGBOAT SERVICE	2
5511 - RETAIL TRADE - NEW AND USED CAR DEALERS	2
7011 - SERVICES - HOTELS AND MOTELS	2
7299 - SERVICES - MISCELLANEOUS PERSONAL SERVICES NEC	2
7532 - SERVICES - TOP AND BODY REPAIR AND PAINT SHOPS	2
7539 - SERVICES - AUTOMOTIVE REPAIR SHOPS NEC	2
9987 - AUTOMOTIVE PAINT AND BODY - FLORIDA CASV	2

0191 - AGRICULTURE - GENERAL FARMS PRIMARILY CROPS	1
1541 - CONSTRUCTION - INDUSTRIAL BUILDINGS AND WAREHOUSES	1
1771 - CONSTRUCTION - CONCRETE WORK	1
2434 - MANUFACTURING - WOOD KITCHEN CABINETS	1
2759 - MANUFACTURING - COMMERCIAL PRINTING NEC	1
4225 - TRANS. & UTILITIES - GENERAL WAREHOUSING AND STORAGE	1
4812 - TRANS. & UTILITIES - RADIOTELEPHONE COMMUNICATIONS	1
4952 - TRANS. & UTILITIES - SEWERAGE SYSTEMS	1
5251 - RETAIL TRADE - HARDWARE STORES	1
5399 - RETAIL TRADE - MISCELLANEOUS GENERAL MERCHANDISE STORES	1
5541 - RETAIL TRADE - GASOLINE SERVICE STATIONS	1
7216 - SERVICES - DRY CLEANING PLANTS EXCEPT RUG	1
7692 - SERVICES - WELDING REPAIR	1
7699 - SERVICES - REPAIR SERVICES NEC	1
7699 - SERVICES - REPAIR SERVICES NEC	1
9511 - PUBLIC ADMIN. - AIR, WATER, AND SOLID WASTE MANAGEMENT	1
9621 - PUBLIC ADMIN. - REGULATION ADMIN. OF TRANSPORTATION	1
TOTAL	71

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 January – March, 2009, ACEPD staff responded to a total of 27 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 3 written warnings and 1 civil citation. ACEPD recorded the latitude and longitude coordinates of each incident investigated for future mapping purposes.

Table 3.1 Complaints by Type

Type	Investigations
WasteWater	10
Hazmat	9
Water Quality	4
Erosion and Sedimentation	1
Fertilizer	1
Potable Water	1
Solid Waste	1
Total	27

Table 3.2 Complaints by Zip Code

<u>Zip Code</u>	<u>Investigations</u>
32609	6
32608	3
32694	2
32669	2
32653	2
32611	2
32607	2
32601	2
32667	1
32640	1
32618	1
32615	1
32606	1
32605	1
Total	27

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 January the fifth edition of the Wader, which focused on solid wastes, was released and sent to almost 500 people. The Wader is an electronic newsletter with a focus on outreach efforts of ACEPD and its partnering organizations. On March 22nd staff had an information table on the pet waste outreach campaign at the Kanapaha Garden Festival. On March 25th staff attended Science Day at High Springs Community School and gave 5 presentations on how to be better stewards of our water resources. On March 28th staff had an information table on water conservation and the pet waste outreach campaign at the rain barrel and composter sale at Home Depot.

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

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 has been hired to compile all of the stakeholder's data and antidotal information to help form the strategies and has written a draft interim report. Stakeholders have had several meetings and are in the process of finalizing the report. ACEPD has started conducting outfall surveys in the hot spots watersheds. Staff walks the creeks during dry weather and marks and investigates all outfalls discharging to the creek. Staff has also started collecting fecal coliform samples from flowing stormwater manholes in the hot spots areas.

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!" The pr campaign telephone survey was conducted by the University of Florida in February. Staff began taking the campaign to public outreach events, veterinarian offices, and apartment complexes in March. Two 15 second commercials began airing on cable and network stations on March 23rd. The post survey will be conducted in late summer 2009.

Stream and Rainfall Gage Contractual Services

The current stream and rainfall gage network is as follows:

Hogtown Creek near Gainesville - at NW 16th Avenue
 Hogtown Creek near Arredondo - at SW 24th Avenue (CR 30)
 Tumblin Creek near Gainesville - at SW 13th Street
 Possum Creek in Gainesville - at NW 16th Avenue
 Little Hatchet Creek near Gainesville - at SR-24 (Waldo Road)
 Rain gage No. 2 at NE 8th Avenue and SR-24 (Waldo Road)

Rain gage No. 3 at SR-20 and SE 27th Street (formerly No.1 located at SE 1st St. and SE 5th Ave.)

Alachua County contracted with Hydrologic Data Collection, Inc. for continued rain and streamflow gage services for the last nine months of fiscal year 2008. As part of this work, two modifications to the stream (stage and discharge) and rain gage network were made: (1) moving an existing rain gage to the Lake Forest Creek watershed at the Sheriff's Headquarters (December 3, 2007) and (2) installing and servicing a new streamflow gage station on Little Hatchet Creek at Waldo Road (installed on February 4, 2008).

Data collection for all gages (stream and rainfall) continued throughout the remainder of the fiscal year. On October 24, 2008, Hydrologic Data Collection, Inc. submitted computations of mean daily stage, discharge and rainfall for the 2008 water year (fiscal year), October 1, 2007 through September 30, 2008, for stations located in Alachua County. The data provided included the following for each station: tables of mean daily stage and discharge with month-end statistics, a listing of mean daily stages and discharges, a listing of stage, discharge and rainfall values data at 15-minute intervals, and primary computations of stage and discharge for each station. These data are available from ACEPD and summary data for the stations will be available on our website in November 2008.

Data collection activities continue and ACEPD has a new purchase order for services with Hydrologic Data Collection, Inc. to continue servicing the gages. Stage data will be collected from the recorders approximately every two months. Stage and discharge computations will be delivered within 30 days of each data collection period. Computations will consist of mean daily stage and discharge and unit values of the same at 15-minute intervals. Rainfall data is also collected on 15-minute intervals. Data collection and reporting will continue for 12 months, October 1, 2008 through September 30, 2009 for a cost of \$17,727.00.