



# Alachua County Environmental Protection Department

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Chris Bird, Director

February 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. OCTOBER - DECEMBER, 2008. FY 2009 – FIRST 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 First Quarter of Fiscal Year 2009 (October - December 2008).

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 typed name.

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

**OCTOBER - DECEMBER 2008**  
**FIRST 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 First Quarter of Fiscal Year 2008 (October - December 2008) 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 October - December 2008, ACEPD staff conducted a total of 154 inspections, including 130 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>
32609	28
32601	21
32608	18
32607	15
32653	13
32615	12
32605	10
32606	10
32641	7
32669	7
32694	6
32618	2
32603	1
32614	1
32640	1
32643	1
32658	1
<b>Total</b>	<b>154</b>

**Table 2.2 Facility Inspections by SIC Code**

<u>SIC Code</u>	<u>Inspections</u>
8021 - SERVICES - OFFICES AND CLINICS OF DENTISTS	9
7549 - SERVICES - AUTOMOTIVE SERVICES NEC	9
7538 - SERVICES - GENERAL AUTOMOTIVE REPAIR SHOPS	7
5511 - RETAIL TRADE - NEW AND USED CAR DEALERS	7
4952 - TRANS. & UTILITIES - SEWERAGE SYSTEMS	7
7699 - SERVICES - REPAIR SERVICES NEC	6
7533 - SERVICES - AUTO EXHAUST SYSTEM REPAIR SHOPS	6
7011 - SERVICES - HOTELS AND MOTELS	6
9229 - PUBLIC ADMIN. - PUBLIC ORDER AND SAFETY NEC	5
7542 - SERVICES - CAR WASHES	5
7532 - SERVICES - TOP AND BODY REPAIR AND PAINT SHOPS	5
5541 - RETAIL TRADE - GASOLINE SERVICE STATIONS	5
5231 - RETAIL TRADE - PAINT GLASS AND WALLPAPER STORES	5
5941 - RETAIL TRADE - SPORTING GOODS AND BICYCLE SHOPS	4

5091 - WHOLESALE TRADE - SPORTING AND RECREATIONAL GOODS	4
0742 - AGRICULTURE - VETERINARY SERVICES SPECIALTIES	4
7216 - SERVICES - DRY CLEANING PLANTS EXCEPT RUG	3
5211 - RETAIL TRADE - LUMBER AND OTHER BUILDING MATERIALS	3
3999 - MANUFACTURING - MANUFACTURING INDUSTRIES	3
8011 - SERVICES - OFFICES AND CLINICS OF MEDICAL DOCTORS	2
7692 - SERVICES - WELDING REPAIR	2
7537 - SERVICES - AUTOMOTIVE TRANSMISSION REPAIR SHOPS	2
7384 - SERVICES - PHOTOFINISHING LABORATORIES	2
7299 - SERVICES - MISCELLANEOUS PERSONAL SERVICES NEC	2
5983 - RETAIL TRADE - FUEL OIL DEALERS	2
5169 - WHOLESALE TRADE - CHEMICALS AND ALLIED PRODUCTS NEC	2
5099 - WHOLESALE TRADE - DURABLE GOODS NEC	2
5093 - WHOLESALE TRADE - SCRAP AND WASTE MATERIALS	2
4833 - TRANS. & UTILITIES - TELEVISION BROADCASTING STATIONS	2
1799 - CONSTRUCTION - SPECIAL TRADE CONTRACTORS NEC	2
0191 - AGRICULTURE - GENERAL FARMS PRIMARILY CROPS	1
7539 - SERVICES - AUTOMOTIVE REPAIR SHOPS NEC	1
7342 - SERVICES - DISINFECTING AND PEST CONTROL SERVICES	1
7221 - SERVICES - PHOTOGRAPHIC STUDIOS, PORTRAIT	1
6411 - FIN INS & REAL EST - INSURANCE AGENTS BROKERS	1
5999 - RETAIL TRADE - MISCELLANEOUS RETAIL STORES, NEC	1
5912 - RETAIL TRADE - DRUGSTORES AND PROPRIETARY STORES	1
5571 - RETAIL TRADE - MOTORCYCLE DEALERS	1
5551 - RETAIL TRADE - BOAT DEALERS	1
5531 - RETAIL TRADE - AUTO AND HOME SUPPLY STORES	1
5399 - RETAIL TRADE - MISCELLANEOUS GENERAL MERCHANDISE STORES	1
5311 - RETAIL TRADE - DEPARTMENT STORES	1
5251 - RETAIL TRADE - HARDWARE STORES	1
5198 - WHOLESALE TRADE - PAINTS VARNISHES AND SUPPLIES	1
4953 - TRANS. & UTILITIES - REFUSE SYSTEMS	1
4812 - TRANS. & UTILITIES - RADIOTELEPHONE COMMUNICATIONS	1
4581 - TRANS. & UTILITIES - AIRPORTS FLYING FIELDS AND SERVICES	1
4513 - TRANS. & UTILITIES - AIR COURIER SERVICES	1
4512 - TRANS. & UTILITIES - AIR TRANSPORTATION SCHEDULED	1
3479 - MANUFACTURING - METAL COATING AND ALLIED SERVICES	1
3241 - MANUFACTURING - CEMENT, HYDRAULIC	1
2911 - MANUFACTURING - PETROLEUM REFINING	1
2879 - MANUFACTURING - AGRICULTURAL CHEMICALS NEC	1
2752 - MANUFACTURING - COMMERCIAL PRINTING LITHOGRAPHIC	1
2434 - MANUFACTURING - WOOD KITCHEN CABINETS	1
1771 - CONSTRUCTION - CONCRETE WORK	1
1731 - CONSTRUCTION - ELECTRICAL WORK	1
0782 - AGRICULTURE - LAWN AND GARDEN SERVICES	1
0781 - AGRICULTURE - LANDSCAPE COUNCELING AND PLANNING	1
<b>TOTAL</b>	<b>154</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 October - December 2008, ACEPD staff responded to a total of 24 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**

<u>Type</u>	<u>Investigations</u>
Hazardous Materials	13
WasteWater	5
Water Quality	3
Erosion and Sedimentation	2
Water Conservation	1
<b>Total</b>	<b>24</b>

**Table 3.2 Complaints by Zip Code**

<u>Zip Code</u>	<u>Investigations</u>
32606	5
32601	5
32641	2
32618	2
32615	2
32608	2
32609	2
32643	1
32607	1
32605	1
32603	1
<b>Total</b>	<b>24</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 October the fourth edition of the Wader, which focused on getting out to enjoy nature, was released and sent to over 250 people. The Wader is an electronic newsletter with a focus on outreach efforts of ACEPD and its partnering organizations. On October 3<sup>rd</sup> staff had an information table at the SFCC Water Forum. On October 18<sup>th</sup> ACEPD assisted WAV volunteers with their table at the Butterfly Festival at the Natural History Museum at UF. On November 8<sup>th</sup> ACEPD, the Gainesville Clean Water Partnership, and WAV joined together to have an interactive table in the children's area of the Downtown Arts Festival. ACEPD sent a representative to the Stormwater Educators Taskforce meeting and is planning to stay active with this group to continue to learn more about public outreach.

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. 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.

### **Pet Waste**

ACEPD is in the process of obtaining funds from the Gainesville Clean Water Partnership for implementing a 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!" Campaign success will be measured by comparing a pre and post telephone Survey conducted by the University of Florida.

### **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.

