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VIA ELECTRONIC CORRESPONDENCE

January 30, 2015

CCN: 59061  
File No: 8DC.20.32

Chief, Clean Water Enforcement Branch  
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**RE: Consent Decree (Case: No. 1:12-cv-24400-FAM), Reference DOJ Case No. 90-5-1-1-4022/1  
Section IX – Reporting Requirements, Paragraph 32 – Quarterly Reports – 2014 Quarterly  
Report No. 4**

Dear Sir/Madam:

In accordance with the provisions of Paragraph 32 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Miami-Dade Water and Sewer Department (MDWASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the 2014 Quarterly Report No. 4, covering the period of time from October 1, 2014 through December 31, 2014.

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such 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.

Should you have any questions regarding this matter, please call me at (786) 552-8571.

Sincerely,

Juan Carlos Arteaga, AIA, NCARB, CBO, APA  
Deputy Director

Attachment: 2014 Quarterly Report No. 4



ec:

Chief, Environmental Enforcement Section  
Environment and Natural Resources Division  
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## 2014 Quarterly Report No. 4

October 1, 2014 through December 31, 2014

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Prepared for

**United States Environmental Protection Agency and  
Florida Department of Environmental Protection**

**Consent Decree**  
Case: No. 1:12-cv-24400-FAM

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Prepared by

**Miami-Dade Water and Sewer Department and the  
Consent Decree Program Management Construction Management  
Team**



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# Quarterly Report of Sanitary Sewer Overflows (SSOs)

## 1.0 Purpose

On April 9, 2014, Miami-Dade County entered into a Consent Decree (CD) with the United States of America, the State of Florida Department of Environmental Protection, and the State of Florida. The Consent Decree was lodged on June 6, 2013, and became effective on December 6, 2013. This document satisfies the requirements of Section IX, Paragraph 32 requirement for submittal of the 2014 Quarterly Report No. 4 on or before February 2, 2015.

## 2.0 Requirements

Section IX, Paragraph 32 of the CD states: "Beginning one (1) month after the first Calendar Quarter following the Effective Date of this Consent Decree, and one (1) month after each Calendar Quarter thereafter until termination of the Consent Decree, Miami-Dade shall submit to EPA and FDEP for review and comment a Quarterly Report. Such Quarterly Report shall include the date, time, location, source, estimated duration, estimated volume, receiving water (if any) and cause of all SSOs occurring in the previous Calendar Quarter." Section IV, Paragraph 8(ii) of the CD defines an SSO as any discharge of wastewater to waters of the United States or the State from Miami-Dade's Wastewater Collection and Transmission System (WCTS) through a point source not permitted in any NPDES permit, as well as any overflow, spill, or release of wastewater to public or private property from the WCTS that may not have reached waters of the United States or the State, including all Building Backups – wastewater backups or releases caused by blockages, flow conditions or other malfunctions of a Private Lateral are not considered as Building Backups."

## 3.0 Sanitary Sewer Overflow Events

This quarterly report also contains information on how the SSO was resolved, including the immediate fix and any proposed long term solution. While not required by the Consent Decree, EPA has requested that the County provide this additional information to aid them in preparing the United States' Semi-Annual Report to the District Court.

### 3.1 SSOs (Excluding Building Backups)

Table 1 documents all SSO events (excluding Building Backups) for the fourth calendar quarter of 2014. There were a total of twenty six (26) SSO events:

- Seven (7) events involved force mains
- Fifteen (15) events involved gravity mains
- Two (2) events involved pump stations
- Two (2) events involved automatic air release valves

Only one (1) of the SSOs discharged to waters of the United States.

The following addresses acronyms and abbreviations used in the table.

FM	Force Main	PS	Pump Station
GM	Gravity Main	ARV	Manual Air Release Valve
LAT	Lateral	AARV	Automatic Air Release Valve

### **3.2 Building Backups**

The County follows standard procedures to resolve and minimize the occurrence of Building Backups. These procedures will be re-evaluated in the development of the new CMOM Programs required by the current Consent Decree.

Presently, the Department's procedures for the response to, and the reporting and documenting of Building Backups are different from those of sanitary sewer overflows within the Department's waste collection and transmission system. Additionally, the "Time" and "Duration" parameters are seldom characteristically the same between the two types of SSO events. For these reasons, Building Backups have been included in a separate table and the "N/A" designation has been used for some "Time" and "Duration" entries. The Building Backup information can be viewed in Table 2.

### **4.0 Amendment to Last Quarterly Report**

Not applicable.

**Table 1 - Sanitary Sewer Overflows (Excluding Building Backups)**

Date	Time	Location	Source	Est. Duration hr:min	Est. Volume gallons	Destination	Waters of the U.S.	Cause	Immediate Fix	Long Term Fix	
										Req'd (Yes/No)	Solution
06-Oct-14	2:45 PM	SW 107th Ave & SW 182nd St	FM	2:15	400	Land	No	6" Asbestos Cement (AC) force main broken by contractor	Repaired AC force main broken by contractor	Yes	Force main to be replaced per Consent Decree Paragraph 4.9
07-Oct-14	1:00 PM	6404 Windmill Gate Rd - Miami Lakes	GM	0:05	10	Land	No	Gravity main blockage due to grease and roots	Cleared gravity main grease and root blockage	No	No further action required
09-Oct-14	1:00 PM	10195 SW 62nd St	FM	5:35	360	Land	No	Leaking 4" AC force main. Old improper repair by unknown contractor found.	Repaired leaking force main	Yes	Force main to be replaced per Consent Decree Paragraph 4.9
10-Oct-14	11:52 AM	NW 84th Ave & NW 27th St	GM	2:48	25	Land	No	10" gravity main broken by Contractor (Rock Power Paving) installing drainage - incorrect location by MDWASD	Repaired gravity main broken by contractor and noted actual pipe location for future reference	No	No further action required
13-Oct-14	11:13 AM	17300 NW 43rd Rd	FM	1:47	17,655	Storm Drain	No	Broken force main due to point loading/pipe bedding	Repaired broken force main	No	No further action required
14-Oct-14	4:41 PM	19201 NW 36th Ave	GM	4:49	70	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	Yes	Placed on Accelerated cleaning cycle
16-Oct-14	10:55 AM	653 NW 22nd St	GM	1:15	900	Storm Drain	No	Gravity main blockage due to operational activities. TV crew plugged main without shutting pump station off	Removed gravity main plug and counceled supervisors on proper communication for shutdowns	No	No further action required
24-Oct-14	9:01 AM	17479 SW 140th Ct	GM	2:04	5	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	No	No further action required
27-Oct-14	9:00 AM	661 SW 11th St	GM	1:30	15	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	No	No further action required
27-Oct-14	5:30 PM	15945 NW 81st Ct	GM	4:00	60	Storm Drain	No	Gravity main blockage due to grease and debris	Cleared gravity main grease blockage	No	No further action required
30-Oct-14	10:45 AM	NW 74th Ave & NW 58th St	FM	1:45	2,250	Canal	Yes	6" dip force main broken due to internal corrosion from bottling plant; suspected illegal high pH discharge from American Bottling Company	Replaced corroded section of force main	Yes	DERM to install a continuous pH meter to measure bottling plant discharge. Submitted request to replace force main
01-Nov-14	2:22 PM	1030 SW 127th Ct	GM	0:48	5	Land	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	Yes	Placed on Accelerated cleaning cycle
04-Nov-14	9:45 AM	SW 130th Ave & SW 112th St	GM	0:45	15	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	Yes	Placed on Accelerated cleaning cycle
05-Nov-14	2:30 PM	NW 84th Ave & Park Blvd	AARV	0:45	2	Storm Drain	No	Leaking/broken automatic air release valve. Assembly body ripped apart possibly due to pressure surge	Replaced leaking automatic air release valve	No	No further action required

**Table 1 - Sanitary Sewer Overflows (Excluding Building Backups)**

Date	Time	Location	Source	Est. Duration hr:min	Est. Volume gallons	Destination	Waters of the U.S.	Cause	Immediate Fix	Long Term Fix	
										Req'd (Yes/No)	Solution
06-Nov-14	1:00 AM	3330 W 76th St - Hialeah	PS	5:06	540,000	Land	No	PS electrical failure. No. 2 motor contactor malfunctioned faulting to ground causing additional damage	Removed broken contactor; cleaned and tested motor control center. Restored pumps 1 & 3 to service	Yes	Assessing repair alternatives for No. 2 contactor. Portable pumps backup on-site. PS 418 scheduled for CD replacement
07-Nov-14	12:00 PM	20395 NW 2nd Ave	FM	3:00	87,450	Storm Drain, Canal	Yes	6" AC force main broken by Contractor (Downsouth Utilities) directional drilling - improper WASD location	Repaired broken force main. Noted pipe location for future reference	Yes	Force main to be replaced per Consent Decree
18-Nov-14	6:45 PM	7535 Dadeland Mall	AARV	0:30	50	Land	No	Clogged automatic air release valve	Replaced clogged automatic air release valve	No	Isolated incident. No further action required
23-Nov-14	9:00 PM	10045 SW 82nd St	GM	1:00	10	Land	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	No	Isolated incident. No further action required
25-Nov-14	9:15 AM	10 SW South River Drive	GM	0:40	50	Storm Drain	No	Gravity main blockage due to illegal dumping of grease.	Cleared gravity main grease blockage. DERM notified.	No	Isolated incident. No further action required
28-Nov-14	9:45 AM	6300 SW 138th Ct	GM	1:45	100	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	No	Isolated incident. No further action required
06-Dec-14	1:00 PM	453 NW 48th Ct	GM	1:14	50	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	No	Isolated incident. No further action required
10-Dec-14	1:00 PM	NW 2nd Ave & NW 204th St	FM	1:00	80	Storm Drain	No	Broken 6" AC force main due to point loading	Repaired broken 6" AC force main	Yes	Force main to be replaced per Consent Decree
15-Dec-14	9:00 AM	3710 NW 203rd St	GM	3:30	30	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	No	Isolated incident. No further action required
18-Dec-14	12:01 PM	16870 SW 141 Ave 33177	GM	0:14	20	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage	No	Isolated incident. No further action required
18-Dec-14	6:40 PM	23800 SW 132 Ave 33032	PS	0:20	78	Land	No	Leak in Pump Station valve pit due to cracked 4" plug valve and blown camlock cover.	Installed camlock cover and replaced cracked plug valve	No	No further action required
30-Dec-14	12:17 PM	10135 W Hibiscus St	FM	3:53	230,250	Land	No	Contractor (Earth Movers Co.) broke an unmarked 8" AC force main due to inaccurate MDWASD asbuilts	Repaired broken AC force main broken by contractor and located force main for future reference	Yes	Force main to be replaced per Consent Decree

Table 2 - Building Backups

Date	Time	Location	Source	Est. Duration hr:min	Est. Volume gallons	Destination	Waters of the U.S.	Cause	Immediate Fix	Long Term Fix	
										Req'd (Yes/No)	Solution
02-Oct-14	n/a	200 Canal St	LAT	n/a	2	Bldg. Backup	No	Turbulent splash from owner's toilet partly caused by MDWASD maintenance crews clearing/jetting nearby gravity main	MDWASD Vendor cleaned and sanitized affected bathrooms	No	No further action required
07-Oct-14	n/a	6411 Windmill Gate Dr	LAT	n/a	2	Bldg. Backup	No	Turbulent splash from owner's toilet partly caused by MDWASD maintenance crews clearing/jetting nearby gravity main	MDWASD Vendor cleaned and sanitized affected bathrooms	No	No further action required
16-Oct-14	n/a	234 NW 31st St	LAT	n/a	1	Bldg. Backup	No	Turbulent splash from owner's toilet partly caused by MDWASD maintenance crews clearing/jetting nearby gravity main - no significant spill	MDWASD Vendor cleaned and sanitized affected bathrooms	No	No further action required
20-Oct-14	n/a	4312 NE 2nd Ave	LAT	n/a	2	Bldg. Backup	No	Sewer backup claimed due to damaged lateral	WASD repaired sewer line	No	No further action required
20-Oct-14	n/a	12351 SW 128th Ct.	LAT	n/a	2	Bldg. Backup	No	Blockage into lateral. Plumbing bills sought	None required - claim is being addressed	No	No further action required
21-Oct-14	n/a	8481 NW 197th Terr	LAT	n/a	5	Bldg. Backup	No	Sewer backup caused by belly in WASD sewer main	WASD cleared blockage	Yes	WASD to repair belly in sewer main
30-Oct-14	n/a	3050 SW 83rd Ct	LAT	n/a	1	Bldg. Backup	No	Apparent sewer backup. Customer did not want Vendor cleanup assistance	Insignificant spillage. Customer refused vendor services.	No	No further action required
03-Nov-14	n/a	2125 SW 82nd Ct	LAT	n/a	5	Bldg. Backup	No	Sewer backup (2 bathrooms and kitchen sink) apparently caused by WASD gravity system	MDWASD Vendor cleaned and sanitized affected bathrooms	No	No further action required
06-Nov-14	n/a	2781 SW 84th Ct	LAT	n/a	2	Bldg. Backup	No	Turbulent splash from owner's toilet and shower partly caused by MDWASD maintenance crews clearing/jetting nearby gravity main	Owner refused vender services.	No	No further action required
10-Nov-14	n/a	17441 NW 82nd Ave	LAT	n/a	1	Bldg. Backup	No	Turbulent splash from owner's toilet partly caused by MDWASD maintenance crews clearing/jetting nearby gravity main	Owner refused vender services.	No	No further action required
12-Nov-14	n/a	5163 SW 160th Ave	LAT	n/a	1	Bldg. Backup	No	Turbulent splash from owner's toilet partly caused by MDWASD maintenance crews clearing/jetting nearby gravity main	Insignificant spillage. Customer refused vendor services.	No	No further action required
21-Nov-14	n/a	99 Harbor Dr - Key Biscayne	LAT	n/a	35	Bldg. Backup	No	Flooring damaged by backup issues partly caused by MDWASD maintenance crews clearing a grease blockage on a nearby gravity main.	WASD Vendor cleaned and sanitized affected bathrooms	No	No further action required
29-Nov-14	n/a	233 Hunting Lodge Dr	LAT	n/a	5	Bldg. Backup	No	Damaged section of lateral caused building backup - possible claim for damage pending.	MDWASD replaced damaged lateral section	No	No further action required

**Table 2 - Building Backups**

Date	Time	Location	Source	Est. Duration hr:min	Est. Volume gallons	Destination	Waters of the U.S.	Cause	Immediate Fix	Long Term Fix	
										Req'd (Yes/No)	Solution
04-Dec-14	n/a	16190 SW 68th St	LAT	n/a	1	Bldg. Backup	No	Turbulent splash from owner's toilets partly caused by MDWASD maintenance crews clearing/jetting nearby gravity main - no significant spill	Insignificant spillage. Customer refused vendor services.	No	No further action required
10-Dec-14	n/a	11810 SW 97th St	LAT	n/a	1	Bldg. Backup	No	Turbulent splash from owner's toilets partly caused by MDWASD maintenance crews clearing/jetting nearby gravity main - no significant spill	Owner refused Vender services.	No	No further action required
27-Dec-14	n/a	21558 SW 92 Pl	LAT	n/a	5	Bldg. Backup	No	Backup in customers lateral and both bathrooms due to gravity main blockage	MDWASD cleared gravity main blockage	No	No further action required

\*The discharge associated with this type of event is typically from a toilet and of very low volume (less than a gallon). It can, in part, be the result of dry traps or clogged vent pipes in the customers system.