

Department of Regulatory and Economic Resources

Environmental Resources Management 701 NW 1st Court, 4th Floor Miami, Florida 33136-3912 T 305-372-6754 F 305-372-6759

miamidade.gov

VIA ELECTRONIC CORRESPONDENCE

February 23, 2015

Chief, Environmental Enforcement Section Environment and Natural Resources Division U.S. Department of Justice P.O. Box 7611 Ben Franklin Station Washington, D.C. 20044-7611 RE: DOJ No. 90-5-1-1-4022/1 walter.benjamin.fisherow@usdoj.gov

Rachael Amy Kamons
Environmental Enforcement Section
U.S. Department of Justice
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044-7611
rachael.kamons@usdoj.gov

CCN: 59145

File No: 8.DC.20.18 & 82

Chief, Clean Water Enforcement Branch
Water Protection Division
ATTN: Brad Ammons
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
ammons.brad@epa.gov

Florida Department of Environmental Protection Southeast District – Suite 200 400 N. Congress Ave. West Palm Beach, FL 33401 Attn: Compliance/Enforcement Section Michael.Hambor@dep.state.fl.us

RE:

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

Reference DOJ Case No. 90-5-1-1-4022/1

Section VI – Volume Sewer Customer Ordinance Program, Paragraph 18(e)

RER-DERM Revisions to Proposed Amendment to 24-42.2 of the Code of Miami-Dade County

Dear Sir/Madam:

On April 4, 2014, pursuant to Section VI Paragraph 18 (e) (iii) of the above referenced Consent Decree, Regulatory and Economic Resources – Division of Environmental Resources Management submitted to the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the proposed amendments to Chapter 24-42.2 of the Code of Miami-Dade County also known as the Volume Sewer Customer (VSC) Ordinance for review and approval. Please find attached revisions to the aforementioned proposed amendment to VSC Ordinance that incorporate comments provided by EPA and Miami-Dade County Water and Sewer Department (WASD). Revisions made to address <u>EPA</u> and <u>WASD</u> comments are highlighted, double and single underlined, respectively.

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.

Delivering Excellence Every Day

Revisions to Proposed Amendment to Chapter 24-42.2 of the Code of Miami-Dade County February 20, 2015 Page 2

Should you have any questions regarding this matter, please call me at (305) 372-6754.

Sincerely,

Lee N. Hefty, RER-Assistant Director

Division of Environmental Resources Management

Attachment: Revisions to Proposed Amendment to Chapter 24-42.2 of the Code of Miami-Dade

County

ec: Jonathan A. Glogau

Special Counsel

Chief, Complex Litigation
Office of the Attorney General

PL-01, The Capitol

Tallahassee, FL 32399-1050

850-414-3817

Jon.Glogau@myfloridalegal.com

Florida Department of Environmental Protection Southeast District – Suite 200 400 N. Congress Ave. West Palm Beach, FL 33401 Attn: Compliance/Enforcement Section

<u>Linda.Brien@dep.state.fl.us</u> <u>Lisa.M.Self@dep.state.fl.us</u> Sed.wastewater@dep.state.fl.us

Mayor Carlos A. Gimenez Miami-Dade County 111 NW First Street 29th Floor Miami, Florida 33128

Lester Sola, Director Miami-Dade Water and Sewer Department 3071 SW 38th Avenue Miami, Florida 33146 Jack Osterholt, Deputy Mayor/Director Regulatory and Economic Resources 111 NW 1st Street, 29th Floor Miami, FL 33128 josterholt@miamidade.gov

Robert A. Cuevas, Jr. Miami-Dade County Attorney 111 NW 1st Street, Suite 2810 Miami, FL 33128

William Bush, Associate Regional Counsel U.S. EPA, Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
bush.william@epa.gov

William A. Weinischke, Senior Trial Attorney Environmental Enforcement Section Environment and Natural Resources Division U.S. Department of Justice P.O. Box 7611 Washington, DC 20044 bill.weinischke@usdoj.gov

Revisions to Proposed Amendment to Chapter 24-42.2 of the Code of Miami-Dade County February 20, 2015 Page 3

ebc:

Juan Carlos Arteaga

L. Douglas Yoder Ralph Terrero Eduardo Vega Bertha Goldenberg Henry Gillman Francis G. Morris

Sarah Davis

Sherry Negahban Richard O'Rourke Howard Fallon

Robert Fergen

Al Galambos

Rod Lovett

Manuel Moncholi

Dan Edwards

Rolando Roque

Juan Bedoya

Vincent Flick

Lee N. Hefty (RER-DERM)

Carlos Hernandez (RER-DERM)

Rashid Istambouli (RER-DERM)

David Haywood (CD PMCM)

Rosanne Cardozo (CD PMCM)

1	New Definitions to be included in Section 24-5						
2 3 4	>> Asset Management shall mean a management program that maintains a desired level of service for utility owned or operated WCTS considering life cycle cost to ensure compliance with regulatory requirements. <<						
5	>> FOG shall mean fats, oils, and grease. <<						
6 7 8 9 10	>> Level Of Service (LOS) shall mean the quality of service to be delivered by a utility to its customers, taking into consideration the prevention of overflows, provision for uninterrupted service without backups, limitation of excessive infiltration and inflow, odor control, provision of suitable maintenance and replacement of aging components, prevention of nuisance conditions at pump stations, avoidance of excessive costs and compliance with regulatory requirements. Life cycle costs shall be considered.<<						
12 13 14	>> <u>Life Cycle Cost (LCC)</u> shall mean the sum of all recurring and one-time (non-recurring) costs over the full life span or a specified period of a structure, component, or system, less the remaining (residual or salvage) value at the end of ownership or its useful life. <<						
15 16	>> Peak flow shall mean the greatest flow at any point in the WCTS averaged over a sixty (60) minute period expected to occur as a result of a 4.5 inch one day rain event. <<						
17 18 19	>> <u>Supervisory Control And Data Acquisition (SCADA)</u> shall mean an electronic system to provide a utility with information and control functions for all pump stations in the WCTS at a central location. These systems are generally intended to be monitored on a 24-hour basis.						
20	* * *						
21	Changes to Sec. 24-18, Operating permits						
22 23 24	>>24-18. (A)(3) [[Private sewage pumping station]] Non-utility owned or operated sanitary sewer collection systems:						
25 26	(a) Which include a sanitary sewer pump station that receives sewage from a building drain and conveys sewage to a utility or non-utility; or						
27 28	(b) Which includes a gravity collection system containing 1000 or more feet of six (6) inch nominal size or larger pipe beyond the building drain(s).<<						
29 30 31 32 33	[[29]]>>19<< Locations at which a site rehabilitation action has been completed in accordance with the provisions set forth in Section 24-44 (2)(k)(ii). * * *						

34			Changes to Section 24-42.2
35 36	Sec. 24	1-42.2.	Sanitary sewer system collection and transmission systems.
37 38	>>(1)		nce Documents. The following documents, as amended from time to time, shall be a reference for the requirements set forth in this Section:
39 40 41		<u>(a)</u>	U.S. EPA's Sewer System Infrastructure Analysis and Rehabilitation Handbook (October 1991, EPA/625/6-91/030),
42 43		<u>(b)</u>	EPA's Handbook: State of Technology Report for Force Main Rehabilitation, EPA/600/R-10/10/044, March 2010
44 45		<u>(c)</u>	EPA's Handbook: Condition Assessment of Wastewater Collection Systems (State of Technology Review Report), EPA/600/R-09/049, May 2009
46 47		<u>(d)</u>	Existing Sewer Evaluation and Rehabilitation, WEF Manual of Practice No. FD-6, 1994
48 49		<u>(e)</u>	<u>Design of Wastewater and Stormwater pumping Stations, WEF Manual of Practice No FD-4</u>
50 51		<u>(f)</u>	Guide for Evaluating Capacity, Management, Operations, and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems, EPA 305-B-05-002
52 53		<u>(g)</u>	Manpower Requirements for Wastewater Collection Systems in Cities and Towns of up to 150,000 Population. EPA 832-R-73-104
54 55		<u>(h)</u>	Manpower Requirements for Wastewater Collection Systems in Cities and Towns of 150,000 to 500,000 Population. EPA 832-R-74-102
56 57		<u>(i)</u>	Gravity Sanitary Sewer Design and Construction, WEF Manual of Practice No. FD-5, 2007
58 59		(i)	Wastewater Collection Systems Management, WEF Manual of Practice No. FD-7, 2009
60 61		<u>(k)</u>	Recommended Standards for Wastewater Facilities, Health Education Services, 2004<<
62 63 64 65			
66	[[(1)]]	>>(2)<<	Existing gravity sanitary sewer requirements.

Decree, Case No. 1:12-cv-24400-FAM

67

68

69 70

71

72 73

74

75

76

77 78

79 80

81

82 83

84

85

86

87

88

89

90 91

92

93 94

95

96 97

98 99

100 101

102

103 104

105

106 107

108 109

110

Each [[publicly or privately]] >>utility or non-utility << owned or operated sanitary (a) sewer collection system shall be evaluated in order to identify and reduce infiltration and inflow into the sanitary sewer collection system >>to less than five thousand (5,000) gallons per inch pipe diameter per day per mile of pipe and laterals<<. The >>utility or non-utility<< [[person responsible for the sewer system's operation]] shall implement a sewer system evaluation survey (SSES) >>and submit a report summarizing the findings of the SSES to the Department for review and approval. << [[and, if required, a rehabilitation program, incorporating the provisions and requirements set forth in the U.S. EPA's Sewer System Infrastructure Analysis and Rehabilitation Handbook (October 1991, EPA/625/6-91/030), designed to identify and reduce sewer system infiltration and inflow to a level which meets the standards set forth in Section 24-42.2(1)(d). Such evaluation activities shall be conducted in a manner so that the total length of the gravity sewer lines and associated manholes in the sanitary sewer collection system is evaluated during the first five year period of the program, and every ten year period, thereafter, Alternatively, the person responsible for the sewer system's operation shall, within forty-five (45) days after the effective date of this section, submit to the Director or the Director's designee for the Director's or the Director's designee's review and approval a report which provides a detailed description of a sewer system evaluation survey and rehabilitation program which incorporates the provisions and requirements set forth in the U.S. EPA's Sewer System Infrastructure Analysis and Rehabilitation Handbook (October, 1991 EPA/626/6-91/030) and which, when implemented, provides effective and substantial compliance with the requirements of this section of the Code.]] >> SSES reports are due on or before each and every ten (10) year anniversary of November 12, 2002, the original due date required by this Chapter. Such evaluation activities shall be conducted in a manner so that the total length of the gravity sewer lines and associated manholes in the sanitary sewer collection system is evaluated. << Said report shall include, in addition to any of the above requirements, decision making criteria, procedures and protocols for prioritization of the evaluation of gravity sewer lines and associated manholes, and [[for the selection of]] >>selected <rehabilitation methods to be used >>if the infiltration and inflow into the sanitary sewer collection system is greater than or equal to five thousand (5,000) gallons per inch pipe diameter per day per mile of pipe and laterals. Any and all rehabilitation work proposed to correct deficiencies identified during the SSES shall be completed within four (4) years after the submission of the SSES report. A second report, noting the completion of this work and describing the testing done showing compliance with the Code requirements, shall be submitted to the Department within four (4) years after the submission of the SSES report <<. [[Upon its approval, the program shall be implemented in a manner so that the sewer system evaluation survey is conducted on the total length of the gravity sewer lines and associated manholes during the first five-year period of the program and every ten-year period thereafter. For purpose of compliance with either alternative, infiltration and inflow evaluations and rehabilitation work

Decree, Case No. 1:12-cv-24400-FAM

 performed between July 1, 1992 and the effective date of this section can be credited towards the first five year requirements provided the person responsible for the sewer system's operation submits to the Director or the Director's designee, for the Director's or the Director's designee's review and approval, a report detailing the work performed and the results obtained as required under Section 24-42.2(1)(f)(iv).]]

- >>(i) Flow testing for the SSES shall be done between June 1 and November 30 except as otherwise approved by the Director or the Director's designee. In areas where the groundwater level is tidally influenced, the testing shall be carried out within two (2) hours of the local high tide.<<
- >>>(ii)<<p>In the event that implementation of the initial sewer system infiltration and inflow rehabilitation programs fail to achieve the performance standards established in this section, the person responsible for the system's operation may, in lieu of performing additional rehabilitation, submit a cost-benefit analysis which analyzes the feasibility of performing additional rehabilitation to achieve said performance standards. If the Director or the Director's designee determines that there is no technically feasible, economically reasonable means of compliance, then no further rehabilitation shall be required >>during the current cycle<<.</p>
- (b) [Those portions of a sewage lateral connection which are the responsibility of the private property owner as identified by policy or ordinance of the publicly-owned or operated sanitary sewer collection system, or when no such identification exists, the portions of lateral located upon privately owned real property, are the responsibility of the private real property owner who shall insure the proper operation, maintenance and repair of said portions of the sewage lateral connection.] Where an evaluation pursuant to Section 24-42.2[[(1)]]>>(2)<<(a) above indicates that a >>private lateral << [[privately owned portion of a sewage lateral connection]] is a source of infiltration or inflow, or both, to a [[publicly or privately]] >>utility or non-utility<< owned or operated sanitary sewer, the >>utility or non-utility<< [[owner or operator of the sanitary sewer collection system]] shall report to the Director or the Director's designee the source of the infiltration or inflow within thirty (30) days from the date of discovery of said discharges. >> The property owner shall repair or replace the portion of private lateral which is the source of infiltration or inflow, or both, within ninety (90) days of notification. << The Director or the Director's designee shall commence enforcement actions, if required, to cause the cessation of the infiltration or inflow.
- [[(c) Notwithstanding any other provision in this section, all publicly owned or operated sanitary sewer collection systems shall participate in a County-wide, regional rainfall dependent peak flow management study. Said peak flow management study shall, at a minimum, perform the following functions: (a) characterize infiltration and inflow of water into the sanitary sewer collection system; (b)

 predict peak flows to each pump station in the sanitary sewer collection system; and (c) assess each pump station's ability to manage peak flows with the back-up pump out of service. Upon implementation of a peak flow management study the person responsible for the operation of the publicly owned or operated sanitary sewer collection system shall submit to the Director or the Director's designee the results of said study along with a plan of corrective actions and schedule of implementation for each and every pump station within the sanitary sewer collection system which was identified as not capable of managing peak flows with the back-up pump out-of-service.]]

- (d) The sewer system infiltration and inflow rehabilitation programs shall be sufficient to insure that sewer system infiltration and inflow into the rehabilitated sanitary sewer collection system shall be less than five thousand (5,000) gallons per inch pipe diameter per day per mile of pipe and laterals, or complies with best management practices as required by the U.S. EPA's Sewer System Infrastructure Analysis and Rehabilitation Handbook (October 1991, EPA/625/6-91/030).]]
- >>(c)<< [[All persons operating a publicly or privately]] >> Each utility or non-utility << owned or operated sanitary sewer system shall provide the following reports to the Director or the Director's designee>>:<<[[-]]
 - (i) The daily average pump station operating time and the multiple and variable speed daily average pump station power consumption, as applicable, for each pump station in the sanitary sewer system shall be reported to the Director or the Director's designee on a monthly basis no later than >> fourteen (14) calendar days << [[the seventh day]] after the end of the preceding monthly reporting period. The report shall be in such form as prescribed by the Director or the Director's designee. The report shall include an explanation for any single event, Act of God, or other documentable reason which leads to excessive pump station operating time or power consumption. >> The Director or Director's designee may exclude << [[These can be cause for exclusion of]] such data from the nominal average pump operating time calculations.
 - (ii) The existence of stormwater discharges into any [[publicly or privately]]
 >>utility or non-utility<< owned or operated sanitary sewer collection system shall be reported to the Director or the Director's designee within thirty (30) days from the date of discovery of said discharges [[by the person responsible for the operation of said system]]. >>All stormwater discharges into sanitary sewers shall be corrected within six (6) months of discovery.<< The status of corrective actions to eliminate stormwater discharges into any sanitary sewer collection system shall be reported
 >>to<<[[by]] the Director or the Director's designee semiannually, January 1 and July 1 of each year, >>by<< [[to]] the person responsible for the operation of said system.

Decree, Case No. 1:12-cv-24400-FAM

>>(iii)<<[[(iv)]] An annual report documenting all completed sewer system evaluations and rehabilitation work, as well as a schedule for any proposed rehabilitation work shall be submitted to the Director or the Director's designee no later than $[\frac{(30)}{(30)}] >> \text{sixty } (60) << \text{days after the end of each calendar year.}$ [Notwithstanding the foregoing, any and all rehabilitation work proposed to correct deficiencies identified during the sewer system evaluation survey shall be completed within four (4) years after completion of the evaluation work, or unless a revised schedule is approved by the Director or the Director's designee.]]

[[(2)]]>>(3) Utility and non-utility<< [[M]]>>m<<onitoring>>and identification<<requirements.

- (a) [[All publicly or privately owned or operated sanitary sewer collection systems shall provide a properly functioning meter for each]] >> Each << pump in each and every pump station >> shall be provided with a properly functioning meter << which measures either elapsed pump operating time or power consumption for each pump station or the equivalent thereof as approved by the Director or the Director's designee.
- (b) [[All publicly owned or operated sanitary sewer collection systems shall have the capacity or capability to monitor their pump stations in a manner so as to prevent overflows.]]>>All pump stations shall be clearly marked with the identification number for the pump station and a 24-hour contact phone number for the operator of the pump station.<<

[[(3)]]>>(4)<<[[Pump station inspection and repairs.]]>><u>Requirements for non-utility pump</u> stations.<<

(a) All [[publicly or privately owned or operated sanitary sewer system]] pump stations shall be inspected >> not less than quarterly << [[annually]] for the purpose of identifying any equipment malfunction and physical deficiencies that could lead to equipment malfunctions. All persons operating any and all [[publicly or privately owned or operated]] sanitary sewer pump stations shall complete the correction of all equipment malfunctions and physical deficiencies that could lead to equipment malfunctions identified during the pump station inspections no later than six (6) months after the date during which the inspection was completed. If an equipment malfunction or physical deficiency causes or contributes to an overflow condition, correction or repair of the malfunction or deficiency shall be completed no later than sixty (60) days from the date that the overflow condition is identified.

Decree, Case No. 1:12-cv-24400-FAM

234 235 236 237 238 239 240 241		(b)	In the event that the person responsible for the operation of any [[publicly or privately owned or operated]]sanitary sewer pump station determines that a pump station which has caused or contributed to an overflow condition, should be upgraded, rather than repaired as set forth in [[(1)]] >> 24-42.2(4)(a) << above, said person shall, within thirty (30) days of the date the overflow condition is identified, submit to the Director or the Director's designee for approval a plan for the upgrade along with a proposed schedule of implementation.
242 243 244 245 246		>> <u>(c)</u> <<	All [[publicly or privately owned or operated]] sanitary sewer collection systems shall >> be maintained << [[maintain their respective systems]] in a manner so as to prevent [[or]] >> and << minimize the possibility of overflows.
247 248 249 250		>> <u>(d)</u> <<	All [[publicly or privately owned or operated]] sanitary sewer collection systems shall have a written maintenance plan including, but not limited to, inspection procedures>>,<< pre>preventative maintenance schedules, corrective maintenance procedures and reporting procedures.
251 252		>> <u>(e)</u> <<	All pump stations shall, at a minimum, [[install]] >> maintain << alarm or monitoring equipment which reports the following information:
253			>>(i)<< High water level alarms in wet wells;
254			>>(ii)<< Pump station power failures.
255 256 257		>>(f)<<	All system operators shall monitor their systems in a manner that allows sufficient response time to correct the detected problem prior to overflow occurring [[or]]>>and<< to minimize the extent of an overflow.
258 259 260	>> <u>(5)</u>	Electr	onic Atlas.
261		Each 1	utility shall provide an << [[An]] electronic sanitary sewer system atlas, in a
262		forma	t compatible with Miami-Dade County Water and Sewer Department's
263			onic atlas and approved by the Director or the Director's designee,
264			ich << shall be submitted to the Director or the Director's designee no later
265			anuary 6, 2016. The electronic atlas shall include delineation of all pump
266 267			n basins (i.e., sewer service areas) and pump station locations (including X,Y nates); pump station specifications, which at a minimum shall include
268			er of pumps, horsepower and pump drive type for each pump, flow rate and
200		Humo	or pumps, norsopower and pump arrive type for each pump, now rate and

total dynamic head at rated operating point; emergency power supply; all gravity sewer lines, including diameter, material, and year installed; manholes and siphons

with all inverts and rim elevations; force mains, including diameter, material, and

year installed; valves, including air release, check, and isolating (plug, gate,

butterfly, and ball valves); flow meters and other items as may be determined by the

269

270

271

272 273

Decree, Case No. 1:12-cv-24400-FAM

274 Director or the Director's designee. 275 276 Updates to the electronic atlas shall be submitted to the Director or the Director's designee annually. >> If no changes have been made to the WCTS, the Utility shall 277 certify to the Department that no changes have been made during the previous 278 279 year.<< 280 [[(4)]]>>(6)<< Collection and transmission system model. All [[publicly]]>>utility<< owned or 281 operated sanitary sewer collection systems shall participate in a County-wide, regional 282 283 computerized collection and transmission system model or models to: i) assist in the development and implementation of operation and maintenance procedures to optimize 284 transmission capacity within the collection system; and ii) evaluate the impact of 285 286 infiltration and inflow rehabilitation programs, proposed system modifications, upgrades and expansions to the transmission capacity and performance of the collection system. The 287 model or models for each collection and transmission system shall be updated at intervals 288 of no more than five (5) years. >> The model for each utility shall be capable of predicting, 289 during conditions of expected peak flow, the flow in each force main and major gravity 290 main, the hydraulic pressure at any point in any force main, the flow capacity at each pump 291 292 station with and without the backup pump, the peak pumping rate at each station, and the likelihood and location of SSOs and surcharged conditions where the backup pump is out 293 of service. << The design and development and subsequent updates of the model or models 294 required herein shall be approved by the Director or the Director's designee prior to 295 implementation. 296 297 [[(5) Maintenance.]] 298 [[(6) Spare parts. All publicly owned or operated sanitary sewer collection systems shall, maintain an inventory of spare parts or suppliers and vendors necessary to prevent 299 sustained sewage spills, overflows and surcharge conditions resulting from equipment 300 301 malfunction or deterioration. The inventory of spare parts required pursuant to this section 302 shall be reviewed and updated by the Utility, at a minimum, on an annual basis. Certain eritical parts may be secured from vendors or other systems on an as needed basis 303 304 provided, however, that the overall system integrity is maintained.]] [[Exemptions. Notwithstanding the foregoing, any publicly owned and operated sanitary 305 (7)sewer collection system which operates a federal or state permitted wastewater treatment 306 facility and which discharges wastewater to the County's regional system on an emergency 307 basis only, will not be required to comply with the provisions set forth in Section 308 24-42.2(1) through (6).11 309 >> CMOM requirements for utilities. CMOM requirements stipulated herein shall apply to 310 all utilities, except that for requirements other than those of Sections 24-42.2(2)(a) and 311 24-42.2(8)(a), where a utility is required to implement CMOM requirements under a US 312 EPA Consent Decree, the utility shall adhere to the requirements and timeframes stipulated 313 by the US EPA Consent Decree until such time that the US EPA CMOM requirement is 314

Decree, Case No. 1:12-cv-24400-FAM

315 terminated or the US EPA Consent Decree is terminated. Upon US EPA CMOM 316 requirement termination or Consent Decree termination, the utility shall continue to 317 implement the requirements of the US EPA approved CMOM requirements as enforceable requirements of this section and shall be reviewed and updated annually by the utility and 318 submitted as a CMOM Plan to the Director on or before February 15 of each year. If the 319 utility proposes no changes, the utility shall submit a letter of no changes to the Director on 320 321 or before February 15. The Director or Director's designee shall approve, approve with 322 conditions or disapprove the CMOM Plan. If the Director or Director's designee 323 disapproves the CMOM Plan, the utility shall resubmit the corrected CMOM Plan within 324 sixty (60) days of notification. 325 Within six (6) months of the effective date of this Section, each utility shall submit to the 326 327 Department an approvable Plan of Compliance for the implementation of a CMOM 328 program that shall include all the requirements set forth in Section 24-42.2 (8) through (13). All of the staffing requirements not otherwise noted in Section 24-42.2 (8) through 329 330 (13), shall be satisfied within twelve (12) months of the Director or Director's designee approving the Plan of Compliance. 331 332 If the Director or Director's designee disapproves the Plan of Compliance, the utility shall 333 resubmit the corrected Plan of Compliance within sixty (60) days of notification. If the 334 resubmitted Plan of Compliance is disapproved by the Director or Director's designee, the utility shall resubmit the corrected Plan within thirty (30) days of notification. If the 335 336 utility does not provide the required documents within the times noted, or if the second 337 resubmittal is determined to be inadequate, or the utility does not implement the actions 338 proposed in a timely manner, the utility shall be determined to be nonresponsive. The Director or Director's designee shall not issue any certification of adequate transmission 339 340 and treatment capacity for new additional sewage flow for any facility served by a utility 341 determined to be nonresponsive. Once the Plan of Compliance is approved by the Director 342 or the Director's designee, the utility shall implement the Plan of Compliance according to the schedules provided in Section 24-42.2 (8) through (13) or as provided in the Plan of 343 344 Compliance approved by the Director or the Director's designee. 345 346 >>(8) Sewer Overflow Response Plan (SORP). All utilities shall develop and maintain a SORP 347 requiring, at a minimum, the following: 348 349 Whenever a SSO is identified, the utility shall provide the following reports: (a) Within two (2) four (4) hours of the utility's discovery of a Sanitary Sewer 350 (i) Overflow (SSO), the utility shall verbally report all SSOs to the Department 351 Emergency phone number, providing the following information: location 352 and source of the SSO, whether the release is ongoing, whether the release 353 354 has reached surface water, and the estimated flow rate or total discharge. Within twenty-four (24) hours of the utility's discovery of a SSO reaching 355 (ii)

356 357 358 359 360		thousa enviro	of the United States or the State, or a SSO equal to or exceeding one and (1000) gallons, or a SSO that will endanger public health or the nment, the utility shall verbally report the SSO to the FDEP by way State Warning Point Hotline, noting the location and volume of the ow.
361 362	(iii)		n five (5) days of the utility's discovery of a SSO, the utility shall the to the Department a written report containing the following:
363 364		<u>1.</u>	The location of the SSO by street address, or any other appropriate method (i.e., latitude-longitude); and
365 366		<u>2.</u>	The estimated date and time when the SSO began and stopped, or, if it is still an active SSO, the anticipated time to stop the SSO; and
367		<u>3.</u>	The steps taken to respond to the SSO; and
368		<u>4.</u>	The name of the receiving water, if applicable; and
369		<u>5.</u>	An estimate of the volume (in gallons) of the sewage spilled; and
370 371 372		<u>6.</u>	A description of the WCTS component from which the SSO was released (such as manhole, crack in pipe, pump station wet well or constructed overflow pipe); and
373 374		<u>7.</u>	Subject to available information, an estimate of the SSO's impact on public health and to water quality in the receiving water body; and
375		<u>8.</u>	The cause or suspected cause of the SSO; and
376	_	<u>9.</u>	The date of the last SSO at the same point; and
377 378		<u>10.</u>	The steps taken or to be taken to reduce, prevent, or eliminate reoccurrence of the SSO; and
379 380		<u>11.</u>	A list of all notifications to the public and other agencies or departments; and
381 382		<u>12.</u>	The steps taken or to be taken to clean up any surfaces that have been in contact and/or contaminated by the SSO.
383 384 385		gallon	SSO reaches waters of the United States or the State, or exceeds 1,000 s, or will endanger public health or the environment, the written shall also be sent to the FDEP.
386	(iv)	Each u	ntility shall provide a report to the Director or the Director's designee,

387 388 389 390		within ninety (90) days of the start of the event, detailing all steps taken to prevent a reoccurrence of the event, including work order records from investigation and repair activities related to the SSO, and a list and description of complaints from customers or others regarding the SSO.		
391 392 393	<u>(b)</u>	Each utility shall maintain, for not less than five (5) years, all records associated with each SSO. The implementation of the required records program shall be completed within six (6) months of approval of the Plan of Compliance.		
394 395 396 397	<u>(c)</u>	Each utility shall provide and maintain a set of procedures for responding to all SSOs to stop the SSO, repair the damaged component that caused the SSO, minimize the environmental impact, and minimize the chance of injury and health risk of SSOs. These procedures shall include, at a minimum, the following:		
398 399 400		(i) A detailed description of actions the utility will undertake to immediately provide notice to the public (through the local news media or other means including signs or barricades to restrict access) of a SSO; and		
401 402		(ii) A detailed description of actions the utility will undertake to provide notice to appropriate local, state, and federal agencies/authorities; and		
403 404 405 406		(iii) A detailed plan (including the development of response standard operating procedures) to minimize the volume of untreated wastewater transmitted to the portion of the WCTS impacted by the events precipitating the SSO to minimize the overflow volume; and		
407 408 409 410 411 412		(iv) A detailed description of the utility's response to building backups, including the time frame for responses and the measures to be taken to clean up building backups caused by conditions in the utility's sewer system, including procedures necessary to disinfect and/or remove items potentially contaminated by building backups. This shall also include a description of the utility's follow-up process to insure adequacy of cleanup.		
413 414	<u>(d)</u>	Each utility shall maintain a detailed plan of the resources to be used to correct or repair the conditions causing or contributing to the SSO.		
415 416 417 418 419 420 421 422	<u>(e)</u>	Each utility shall maintain a detailed plan to ensure the preparedness to respond to a SSO, including response training of utility employees and personnel of other affected agencies necessary for effective implementation of the SORP in the event of a SSO, and establish procedures and provide adequate training to response personnel to estimate SSO volumes. The required training shall be completed within six (6) months of approval of the Plan of Compliance and a description of the training completed shall be included in the annual CMOM report described in Section 24-42.2(14).		
423	(f)	Each utility shall maintain a list of those SSO locations within the area of the		

Decree, Case No. 1:12-cv-24400-FAM

424			WCT	S served by each pump station that have been recorded as overflowing more
425			than o	once within the previous twelve (12) month period and/or those locations at
426			which	a SSO is likely to occur first in the event of a failure at the pump station.
427		(g)	Each	utility shall maintain a description of pump station emergency bypass/pump-
428				d strategies and procedures.
429		(h)	Each 1	utility shall provide a public contact point, available twenty-four hours a day
430			for re	porting overflows, with an established plan for activating a response to the
431 432				ow. Pump stations shall be marked with a twenty-four (24) hour contact er to report overflows and other problems.
432			Hullion	st to report overnows and other problems.
433		(i)		utility shall develop and maintain a rain event inspection route for inspections
434				own potential points of overflow. Locations shall be selected based on system
435				ruction and historical data (e.g., Rain Derived Infiltration Inflow (RDII),
436				and areas subject to stormwater and/or tidal flooding). The rain event
437 438				etion routes shall be created and submitted to the Director or the Director's nees within six (6) months of the approval of the Plan of Compliance.
439 440	<u>(9)</u>			Management System (IMS). All utilities shall develop and maintain an IMS a minimum, the following:
441		<u>(a)</u>	System	m component and functions:
442			(i)	A management component to provide utility managers with guidance and
443			-	instruction to adequately evaluate operations, personnel training and
444				history, maintenance, customer service and sewer system rehabilitation
445				activities so that overall sewer system performance can be determined and
446				utility planning can be conducted. Management reports and standard
447				management forms shall be used.
448			<u>(ii)</u>	An operations function to provide utility managers and field supervisors
449				with guidance to adequately track scheduled operational activities and to
450				enhance operational performance. This component shall use operating
451				reports, with standard operation forms for field personnel and shall provide
452				for field supervisor review.
453			(iii)	A maintenance function to provide utility managers and field supervisors
454				with guidance to adequately track scheduled maintenance activities and
455				enhance maintenance performance. This component shall use
456				maintenance reports, with standard maintenance forms for field personnel
457				and shall provide for field supervisor review.
458			(iv)	The IMS programs shall be implemented within one year of approval of the
459				Plan of Compliance. A summary, demonstrating that the IMS programs
460				have been fully implemented, shall be submitted to the Department within

Words stricken through and/or [[double bracketed]] shall be deleted. Words underscored and/or >>double arrowed<< constitute the amendment proposed. Remaining provisions are now in effect and remain unchanged.

461 462		eighteen (18) months of approval of the Plan of Compliance and thereafter included in the CMOM report.
463 464	<u>(b)</u>	A description of information that will be entered into the system, and how it will be entered and recorded.
465 466	<u>(c)</u>	A description of the management and work reports that will be generated from inputted data, including examples and frequency for review of the reports.
467	<u>(d)</u>	A set of standard forms to be used by field and management personnel.
468	<u>(e)</u>	A description of how the records will be maintained.
469 470	<u>(f)</u>	A description of the computer software to be utilized for the system and cited references for software training and procedures for utilizing the software.
471 472 473 474 475 476 477	(g)	A Geographic Information System (GIS) map for the entire WCTS using software compatible with the GIS system used by Miami-Dade County, and a program for keeping the data current in this system, including as-built drawings and information, in an electronic format compatible with the GIS system used by Miami-Dade County, which shall be made available to the Department by January 6, 2017, and annually thereafter. In addition to storing and displaying the existing WCTS data, the system shall, at a minimum, include the following capabilities:
478 479		(i) As-built drawings and information, including new and corrected asset attribute data.
480 481 482		(ii) A streamlined data entry process for new assets, including electronic as-built data and necessary standards so that all new assets are added to the GIS system within ninety (90) calendar days of their activation in the field.
483 484 485		(iii) The GIS shall interface with the hydraulic computer model used by the utility to model the WCTS to allow information to be efficiently exported to the model.
486		(iv) Provide a flagging process for investigators to note GIS inaccuracies.
487		(v) Provide for additional GIS training and refresher training.
488 489 490 491		(vi) Determination via suitable as-built drawings, or GPS or traditional surveying field measurements, elevations deviations of all manhole rim elevations and sewer inverts at connections to manholes and pump stations and their inclusion into GIS.
492 493	<u>(h)</u>	Development and implementation of performance indicators to provide utility managers with guidance to adequately evaluate data collected in the IMS for use in

494 495 496 497 498 499 500 501 502			CMOM program. Performance indicators shall include, without limitation, the linear footage of gravity sewer line and force main inspections, the linear footage of gravity sewers cleaned, the number of manholes inspected, the number of manholes cleaned/maintained, the number of inverted siphons inspected, the number of inverted siphons cleaned/maintained, the number of SSOs per mile of gravity sewer, the number of SSOs per mile of force main, the number of SSOs per pump station, per capita wastewater flow and such other performance indicators as the utility may suggest and the Department approve.
503		<u>(i)</u>	Maintenance activity tracked by type (corrective, preventative, and emergency).
504 505 506	(10)		System Asset Management Plan (SSAMP): All utilities shall develop and maintain set Management Program requiring, at a minimum, the following:
507 508 509 510 511 512 513		<u>(a)</u>	A Current Condition Assessment of all Sewer System components shall be performed annually every five (5) years including, but not limited to, pump station components, gravity sewer lines, manholes, siphons, aerial crossings, and force mains. Data gathered from the latest round of Infiltration/Exfiltration/Inflow (I/E/I) sewer assessments may be used as a baseline conditional assessment to meet this component for the first year. For future years, the evaluation shall be done according to the practices described in sections 24-42.2(11) through (13).
514 515		<u>(b)</u>	A statement of the Level of Service (LOS) the utility intends to provide the customers it serves.
516 517 518		(c)	Identification of Critical Assets within the sewer system that are absolutely necessary to have in service to maintain the developed LOS. This list shall be evaluated and updated as necessary at intervals of no more than five (5) years.
519 520 521 522		<u>(d)</u>	Identification of minimum LCC for each critical asset using currently recognized accounting practices with all assumptions noted. The calculations of minimum LCC for each critical asset shall be repeated at intervals of no more than three (3) years.
523 524 525 526 527 528 529 530 531 532		<u>(e)</u>	A long-term funding plan to fully implement and pay for all identified LCCs for each critical asset. The long-term funding plan shall include all potential sources of revenue and the likelihood of securing funding from each source. Long term evaluation of costs and funding shall be done according to currently recognized accounting practices. The Department shall be immediately notified of any changes in the availability or disposition of any revenue sources. The long-term funding plan shall be submitted to the Department for review and approval within one year of approval of the Plan of Compliance and thereafter included in the annual CMOM report.

Decree, Case No. 1:12-cv-24400-FAM

533 534 535 536	(11)	develo blocka	o Sewer System Operation And Maintenance (O&M) Program: Each utility shall be and maintain a gravity sewer system O&M program to address SSOs and ges, particularly those caused by FOG, roots and debris. The program shall, at a tim, include the following:			
537 538 539		<u>(a)</u>	Written preventative O&M schedules and procedures which shall be scheduled appropriately and shall include, but not be limited to:			
540 541			(i) Inspection and maintenance of all gravity sewers, manholes, and inverted siphons.			
542 543			(ii) Identification and documentation of gravity sewers, manholes, and inverted siphons condition, including grease, roots, and debris accumulation.			
544			(iii) Identification of maintenance needs.			
545 546 547			(iv) Scheduling preventative maintenance work and cleaning which the utility may schedule in connection with the force main assessment program or the force main rehabilitation/replacement program.			
548 549 550 551 552 553		<u>(b)</u>	Engineering evaluation of potential sulfide and corrosion control options and control of other forms of deterioration which shall include potential problems and control options including a recommendation of preferred control methods. The engineering evaluation of required corrosion controls shall be completed and a report summarizing the findings and recommendations shall be submitted to the Department within one year of the approval of the Plan of Compliance.			
554 555 556 557		<u>(c)</u>	Prioritization for evaluation of gravity sewers based on size of pipe, locations of past SSOs, community input or other appropriate criteria. The prioritization for evaluation of the gravity sewers shall be completed and submitted to the Department within six (6) months of the approval of the Plan of Compliance.			
558 559 560 561 562 563 564 565		<u>(d)</u>	Inspection of gravity sewers, manholes, inverted siphons and easements, including inspection of river/creek/canal crossings, stream bank encroachment toward sewers, easement accessibility, including the need to control vegetative growth or encroachment of man-made structures or activities that could threaten the integrity of the affected gravity sewers, manholes, or inverted siphons. Inspections shall include written reports and photographic/video records where appropriate. Inspectors shall promptly report any evidence of past SSOs. Any observed SSO shall be promptly reported in accordance with the SORP.			
566		<u>(e)</u>	A schedule for the maintenance of easements.			
567 568 569		<u>(f)</u>	A staffing and funding plan sufficient in structure, skills, numbers and funding to allow completions of the operation and maintenance activities required by this Section. The staffing requirements for the collection system O&M shall be met			

Words stricken through and/or [[double bracketed]] shall be deleted. Words underscored and/or >>double arrowed<< constitute the amendment proposed. Remaining provisions are now in effect and remain unchanged.

570 571 572 573			within six (6) months of the approval of the Plan of Compliance. A staffing report, demonstrating that the staffing requirements have been met, shall be submitted to the Department within one year of the approval of the Plan of Compliance and thereafter included in the annual CMOM report.		
574 575 576		(g)	Data attributes for the mapping program allowing program data to be compared in the IMS against other pertinent data such as the occurrence of SSOs, including repeat SSO locations and permit violations.		
577		<u>(h)</u>	An inventory management system that includes:		
578 579			(i) A list of all critical equipment and critical spare parts, identifying each as stored by the utility or not stored by the utility; and		
580 581			(ii) A list identifying where critical equipment and critical spare parts that are not stored by the utility may be secured to allow for timely repairs; and		
582 583			(iii) Written procedures for annually updating the critical equipment and spare parts inventories in the inventory management system.		
584 585		<u>(i)</u>	Monthly reports which list equipment problems and the status of work orders generated during the previous month.		
586		<u>(i)</u>	Storm event preparation and recovery plan.		
587 588 589 590 591	(12)	develo facilita	Station Operations And Preventative Maintenance Program: Each utility shall op and maintain a pump station operations and preventive maintenance program to ate proper operation and maintenance activities associated with pump stations within ICTS. The program shall, at a minimum, include the following:		
592 593		<u>(a)</u>	Identification of the means and modes of communication between pump stations, field crews, and supervising staff.		
594 595 596 597 598 599		<u>(b)</u>	Technical specifications for each pump station within the utility WCTS including, at a minimum: number of pumps, horsepower and operating point of pumps, manufacturer and model and serial numbers for pumps, voltage and full load current for motors, pump speed(s), type and description of station controls, station type, type and size of station valves, generator type, if present, including prime mover, kilowatt rating, fuel type and capacity, and nominal voltage.		
600 601 602 603 604 605		(c)	A description of the monitoring system for each pump station which shall continuously monitor, report, and transmit information for each pump station. All utility owned or operated sanitary sewer collection systems shall be continuously monitored and recorded at a central location via a SCADA system, or equal. All pump stations shall report a minimum of high water level, power failure, low battery voltage, and remote signal failure. Pump stations with dry wells or pumps		

606 607 608 609 610 611		larger than twenty-five (25) horsepower shall also report operating hours after midnight, pump starts, wet well level, high and low level alarm set points, kilowatt power usage based on pump amperage, instantaneous and average station flow based on flow meter or calculated from pump amperage and discharge pressure, discharge pressure, high and low pressure alarm set points, intrusion alarm, and drywell flooding at drywell stations.
612 613	<u>(d)</u>	Written preventative operations and maintenance schedules and procedures which shall be scheduled not less than monthly and shall include, but not be limited to:
614 615		(i) Written procedures for periodic service and calibration of instrumentation such as sensors, alarm systems, and remote monitoring equipment.
616 617		(ii) Predictive inspection and service for all pump stations including, but not limited to:
618 619		1. Reading and maintaining records from elapsed time meters and pump start counters; and
620		2. Observing and documenting wet well conditions.
621		 Checking and resetting as necessary system operating points.
622		4. Checking and maintaining records of system pressure.
623		 Checking pump station SCADA system.
624		6. Checking stand-by power sources.
625 626 627		7. Checking motor electrical systems including, but not limited to, phase line voltages, quarterly checks of motor phase current draw and winding resistance; and
628		8. Identifying maintenance needs.
629 630 631	<u>(e)</u>	Written standard emergency and reactive O&M procedures. The utility may use portable pumps, portable generators, or alternate power sources as it deems appropriate. The procedures shall, at a minimum, include:
632 633		(i) Criteria used to determine the need for emergency operations and maintenance.
634		(ii) Initiation/use of stand-by power or portable pumps, where applicable.

635 636 637			(111)	evaluation of the need for additional equipment for emergency or reactive operations including, but not limited to, additional generators and portable pumps (for pump around operations).
638			<u>(iv)</u>	Evaluation of the need for on-site standby power for each pump station.
639 640			<u>(v)</u>	Establishing standard forms, reporting procedures and performance measures for emergency and reactive operations and maintenance.
641 642		<u>(f)</u>	-	ory Management System: Each utility shall provide an inventory gement system that includes:
643 644			<u>(i)</u>	A list of all critical equipment and critical spare parts, identifying each as stored by the utility or not stored by the utility.
645 646			<u>(ii)</u>	A list identifying where critical equipment and critical spare parts that are not stored by the utility may be secured to allow for timely repairs.
647 648			<u>(iii)</u>	Written procedures for annually updating the critical equipment and spare parts inventories in the inventory management system.
649 650		(g)		ly reports which list equipment problems and the status of work orders ated during the previous month.
651 652 653 654 655 656 657		<u>(h)</u>	allow Section contract and ap	fing and funding plan sufficient in structure, skills, numbers and funding to completions of the operation and maintenance activities required by this n. The listing of required resource commitments including staffing, ctual support and equipment shall be submitted to the Department for review oproval within six (6) months of the Director or the Director's designee wing the Plan of Compliance and thereafter included in the annual CMOM
658		<u>(i)</u>	Storm	event preparation and recovery plan.
659 660 661 662 663 664 665 666	(13)	Progre mainte mainte	enance and an	Operations, Preventative Maintenance And Assessment/Rehabilitation ach utility shall develop and maintain a force main operations, preventive and assessment/rehabilitation program to facilitate proper operation and activities associated with force mains within the WCTS. The program shall minimum, the following: sis of all utility force mains including an evaluation of corrosion and sulfide
667 668				l options which shall include potential problems and corrosion control s including recommendations of preferred corrosion control methods.

669 670 671 672 673 674	<u>(b)</u>	Inspection of force mains and easements, including inspection of river/creek/canal crossings, bank encroachment toward sewers, easement accessibility including control of vegetative growth and man-made structures. Inspections shall include written reports and photographic/video records where appropriate, and shall include any evidence of past SSOs. Any observed SSO shall be promptly reported in accordance with the SORP.
675	<u>(c)</u>	A schedule and procedures for the maintenance of easements.
676 677 678 679 680 681	<u>(d)</u>	A staffing and funding plan sufficient in structure, skills, numbers and funding to allow completions of the operation and maintenance activities required by this Section. The listing of required resource commitments including staffing, contractual support and equipment shall be submitted to the Department for review and approval within six (6) months of the approving the Plan of Compliance and thereafter included in the annual CMOM report.
682 683	<u>(e)</u>	Inventory Management System: Each utility shall provide an inventory management system that includes:
684 685		(i) A list of all critical equipment and critical spare parts, identifying each as stored by the utility or not stored by the utility.
686 687		(ii) A list identifying where critical equipment and critical spare parts that are not stored by the utility may be secured to allow for timely repairs.
688 689		(iii) Written procedures for annually updating the critical equipment and spare parts inventories in the inventory management system.
690 691	<u>(f)</u>	Monthly reports which list equipment problems and the status of work orders generated during the previous month.
692 693 694 695 696 697 698 699	(g)	A force main criticality assessment of the structural integrity of all utility force mains and the risk of critical failure to prioritize further assessment and/or rehabilitation/replacement. The assessment shall be based on previous assessment of the structural integrity of the force main, size, age, pipe material of the force main, length of the force main and availability of the nearest WCTS component which could handle flows from that force main in the event of failure, the operating pressure in the force main during peak flow events, and the availability of new pipe in the event of failure.
700 701 702 703	<u>(h)</u>	A force main prioritization report providing the result of the utility's force main criticality assessment, including a prioritized schedule for the implementation of the force main assessment program. The force main prioritization report shall be submitted to the Director or the Director's designee for review and approval.

704 705 706	<u>(i)</u>	A force main assessment program in accordance with the schedule set forth in the force main prioritization report. At a minimum, the force main assessment program shall include:					
707 708 709 710		<u>(i)</u>	Standard procedures and schedule for continual above ground assessment of each force main in the WCTS, including standard forms for the visual assessment of force main routes and guidelines for assessment of unusual conditions, and				
711 712 713 714 715		(ii)	Standard procedures and schedule for continual assessment of each force main in the WCTS where it crosses a surface water body or drainage way. This section shall include standard forms for the visual assessment of force main routes and above ground conditions that may show structural or leakage issues with the force main, and				
716 717 718 719		(iii)	Standard procedures and schedules for inspecting and identifying force mains that are corroded or at risk of corrosion or other degradation, including a system for prioritizing repair of corrosion defects and corrosion identification forms, and				
720 721 722		(iv)	Standard procedures and schedules for monitoring existing cathodic protection measures on existing force mains, and detailed cathodic protection requirements for any newly installed force mains, and				
723 724 725 726 727 728		(v)	Standard procedures and schedules for implementing acoustic monitoring of the utility force mains including leak detection, acoustic monitoring for wire-breaks in prestressed concrete cylinder pipe, and sonar or ultrasonic monitoring for pipe defect analysis. Any information from this testing shall be used to establish a list of potential corrosion problems and need for rehabilitation of the force main to prevent future failures and SSO, and				
729 730		(vi)	Criteria for use of ground-penetrating radar to determine leaks, force main bedding conditions and/or force main bedding voids, and				
731 732 733 734 735 736 737		(vii)	Assessment of the feasibility and need of installation of parallel force mains to provide continuity of service in the event of a force main determined by the utility to be highly critical. Highly critical force mains include, but are not limited to, 24-inch diameter or larger force mains that, in the event of a failure, pose a significant impact to the economy, environment or public health or safety, or any combination of those matters, as a result of not being able to be isolated, bypassed, or repaired before said impacts occur.				
738 739 740	<u>(i)</u>		ce main rehabilitation/replacement program which shall include, at a um, the following,				

741 742 743 744 745 746		<u>(i)</u>	Standard procedures for repairing each force main in the WCTS that is deemed to be in need of repair pursuant to the force main prioritization report and/or force main assessment program. Repair technologies shall include, but not be limited to, open cut replacement of section(s) of pipe, spot repairs using cured-in-place pipe, mechanical sleeves or repair clamps, or joint repairs using internal sleeves or external devices.
747 748 749 750 751		(ii)	Standard procedures for rehabilitating each force main in the WCTS that is deemed to be in need of rehabilitation pursuant to the force main prioritization report and/or force main assessment program. Rehabilitation technologies shall include, but not be limited to, spray-on linings, close fit linings, cured-in-place pipe, and woven hose linings.
752 753 754 755 756 757		(iii)	Standard procedures for replacing each force main in the WCTS that is deemed to be in need of replacement pursuant to the force main prioritization report and/or force main assessment program. Replacement technologies shall include, but not be limited to, open cut replacement of pipe, slip-lining, pipe bursting, directional drilling, and micro-tunneling/pipe jacking.
758	<u>(k)</u>	Storm	event preparation and recovery plan.
759 760 761 762 763 764 765	<u>(1)</u>	report deficie approv annive deficie	sessment of all the force mains in the utility WCTS shall be completed and a summarizing the findings of the assessment and a plan to remedy all noise shall be submitted to the Department within six (6) months of the all of the Plan of Compliance, and within six months of each five (5) year resary of the date of the approval of the Plan of Compliance. All force main noise discovered in each assessment shall be remedied within fifty-four (54) as of the due date of the respective assessment.
766 (1) 767 768 769 770 771 772 773 774 775	in 2010 program staffing work ice the systemains plans f availab	6, an agm for to gin all dentified tem dure determited to thosoility, he	MReport. Each utility shall provide, by January 31 of each year, beginning opposable report describing changes needed to update the utility's CMOM the upcoming year. The report shall include, at a minimum, the current positions, new work required to maintain the utility's WCTS, new capital d in the previous year, training carried out in the previous year, SSOs from the previous year and corrective actions for the SSOs, pump station and med to have inadequate capacity during the previous year, the corrective pump station and mains, any changes in the funding sources level and the funding requirements for the previous year were met, and expected ements for the upcoming year.
776			ىد ىن ن
777			* * *