



CITY OF FORT LAUDERDALE

CITY OF FORT LAUDERDALE

WASTEWATER CONSENT ORDER PROGRAM

2021 SEMI-ANNUAL REPORT NO.1

OGC No. 16-1487

City Project No. 12375

July 30, 2021

Hazen



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1.0 Purpose

The City of Fort Lauderdale (City) entered into Consent Order Number 16-1487 (First Order) with the Florida Department of Environmental Protection (FDEP) Office of the General Council (OGC) on September 29, 2017. On October 12, 2020, an Amended Consent Order (Amended CO) was entered into between the FDEP and the City to reach settlement of certain matters at issue between the FDEP and the City. The Amended CO supersedes and replaces the First Order. As a result of this amendment, 26 CO Milestones have been added to the original 51, for a total of 77 Milestones. Following the submittal and FDEP approval of the Asset Management (AM) and Capacity, Management, Operation and Maintenance (CMOM) Report and Schedule, an additional Milestone for the AM and CMOM Programs Implementation, per Paragraph 6(n) was added. This brings the Amended CO Milestones to a total of 78 Milestones. Their reporting is included in this report. A copy of the Amended CO is provided in **Appendix A**. The Amended CO identified various projects (corrective actions) along with completion deadlines required to improve sanitary sewer service within the City.

Paragraph 6(o) of the Amended CO requires that the City provide FDEP a Semi-Annual Program Progress Report on the status of the various Amended CO deliverables, along with a projection of the work the City will perform during the subsequent 12-month period. Paragraph 6(p) of the Amended CO requires that the City submit the Semi-Annual Report on or before July 31 for the period from January 1 through June 30, and on or before January 31 for the period from July 1 through December 31 each year.

This document (2021 Semi-Annual Report No. 1) satisfies the requirements of Paragraphs 6(o) and 6(p) for the period from January 1, 2021 through June 30, 2021.

Section 1, Purpose, presents a brief background and describes the intent of the report. Section 2, Program Status, describes the progress of each Program element for this reporting period, i.e., January 1, 2021 through June 30, 2021. Section 3, One-Year Look Ahead, describes the proposed Program tasks to be performed during the next 12 months.

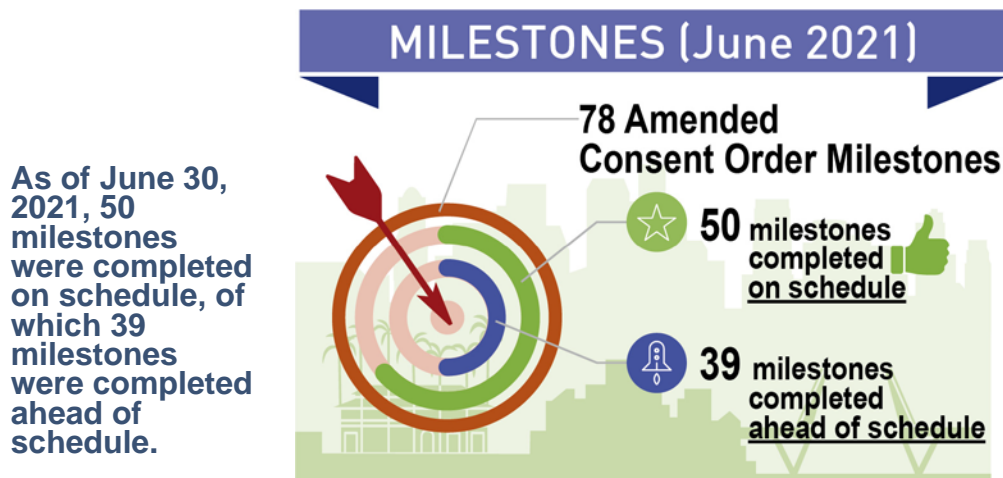
2.0 Program Status

2.1 Overall Amended CO Program Status

Consent Order OGC No. 16-1487 (First Order) was negotiated and filed with the FDEP Clerk on September 29, 2017 (effective date). On October 12, 2020, FDEP along with the City executed the Amended CO OGC No. 16-1487. The Amended CO supersedes and replaces the First Order. In 2017, the City selected a consulting team led by Hazen and Sawyer (Hazen) as the Consent Order Program Manager (PM). The Hazen CO Program Team will continue to assist the City in executing the projects related to the Amended CO.

Paragraphs 6(a) through 6(s), 8, 9, 10, 11, 16, and 18 of the Amended CO require the City to undertake a series of studies, planning tasks, design projects, and construction projects to improve the sanitary sewer infrastructure within the City. The City has already commenced the planning, design and construction tasks required by Paragraphs 6(a) through 6(d), 6(q) and 6(r) of the Amended CO.

The Amended Consent Order contains 78 program milestones to be completed in accordance with stipulated deadlines, of which 50 milestones have been completed on or ahead of schedule, as shown below. Included in these deadlines are 19 Semi-Annual Reports, of which 7 have been completed for the reporting periods from December 2017 through June 2021.



The listed Amended CO projects, plans, assessments, and reports, along with their status, are included in **Table 1** of this report, chronologically ordered by Amended CO paragraph number. The table lists the item number, Amended CO paragraph, its required completion date, scheduled or actual completion date, percent complete, and status. To date, all required Program milestone dates have been met.

The submittals and correspondence with FDEP within this reporting period can be found in **Appendix B**.

A more detailed report of the construction progress performed the last two quarters and the anticipated construction progress during the next reporting period is presented in **Appendix C**.

Furthermore, the Master Program Schedule is presented in **Appendix D**. The Schedule has been updated to show the current status of each project as of June 30, 2021, as noted above.

Table 1 - Amended Consent Order Status (Ordered by Amended CO Paragraph)

Item No.	Amended CO Paragraph	Project	Completion Date			Percent Complete ³	Status
			Required (CO) ¹	Scheduled	Actual ²		
1	6(a)	1,900 LF of 12" Las Olas	2/28/2018	-	2/28/2018	100%	Complete
2	6(b)	11,620 LF of 30"	5/31/2018	-	5/30/2018	100%	Complete
3	6(c)	Phase I PS Projects	9/30/2020	-	3/27/2020	100%	Complete
4	6(d)	Phase I I/I Projects	12/30/2020	-	11/30/2020	100%	Complete
5	6(e)	Phase II Force Main Rehabilitation Projects (Approximately 75,000 LF)	9/30/2026	9/30/2026	-	46%	On Schedule
6	6(f)	Existing Schedule Submittal	12/28/2017	-	12/22/2017	100%	Complete
7	6(g)	Submit Mapping Plan to FDEP	6/29/2018	-	6/26/2018	100%	Complete
8	6(g)	AAAAAAA0020	7/27/2018	-	7/27/2018	100%	Complete
9	6(g)	Develop Sewer System Map	6/29/2019	-	6/28/2019	100%	Complete
10	6(g)	Certify Mapping Complete to FDEP	6/29/2019	-	6/28/2019	100%	Complete
11	6(h)	Submit Force Main Condition Assessment Plan to FDEP	7/29/2018 9/4/2018	-	7/26/2018 9/4/2018	100%	Complete. The FMCA Plan was submitted on 7/26/2018 and a revised plan addressing FDEP comments was issued on 9/4/2018.
12	6(h)	FDEP Review and Comment on Force Main Condition Assessment Plan	8/28/2018	-	8/3/2018	100%	Complete
13	6(h)	Force Main Condition Assessment Final Completion	2/3/2020	-	1/23/2020	100%	Complete
14	6(h)	Submit Summary Report (Force Main Condition Assessment)	4/3/2020	-	3/23/2020	100%	Complete
15	6(i)	Submit AM and CMOM Programs Plan to FDEP	8/29/2018	-	8/28/2018	100%	Complete
16	6(i)	FDEP Review and Comment on AM and CMOM Programs Plan	9/27/2018	-	9/27/2018	100%	Complete ⁴
17	6(j)	Evaluate collection system capacity	5/29/2019	-	5/17/2019	100%	Complete
18	6(j)	Submit Capacity Evaluation Summary Report to FDEP	7/29/2019	-	7/23/2019	100%	Complete
19	6(k)	Submit AM and CMOM Programs to FDEP	6/25/2020	-	6/25/2020	100%	Complete

Table 1 - Amended Consent Order Status (Ordered by Amended CO Paragraph)

Item No.	Amended CO Paragraph	Project	Completion Date			Percent Complete ³	Status
			Required (CO) ¹	Scheduled	Actual ²		
20	6(k)	FDEP Review and Comment on AM and CMOM Programs	7/25/2020	-	7/24/2020	100%	Complete. Additional FDEP Comments were addressed and a revised AM and CMOM Programs were submitted on June 9, 2021 (copy of the letter is included in Appendix B). Refer to Item 78 below for AM and CMOM Programs Implementation.
21	6(l)	Submit AM and CMOM Programs Schedule to FDEP	6/25/2020	-	6/25/2020	100%	Complete
22	6(l)	FDEP Review and Comment on AM and CMOM Programs Schedule	7/25/2020	-	7/24/2020	100%	Complete. Additional FDEP Comments were addressed and a revised AM and CMOM Programs Schedule was submitted on June 9, 2021 (copy of the letter is included in Appendix B). Refer to Item 78 below for AM and CMOM Programs Implementation.
23	6(o,p)	Semi-Annual Report No. 1 (12/31/17)	1/31/2018	-	1/31/2018	100%	Complete
24	6(o,p)	2018 Semi-Annual Report No. 1 (6/30/18)	7/31/2018	-	7/30/2018	100%	Complete
25	6(o,p)	2018 Semi-Annual Report No. 2 (12/31/18)	1/31/2019	-	1/31/2019	100%	Complete
26	6(o,p)	2019 Semi-Annual Report No. 1 (6/30/19)	7/31/2019	-	7/31/2019	100%	Complete
27	6(o,p)	2019 Semi-Annual Report No. 2 (12/31/19)	1/31/2020	-	1/28/2020	100%	Complete
28	6(o,p)	2020 Semi-Annual Report No. 1 (6/30/20)	7/31/2020	-	7/31/2020	100%	Complete
29	6(o,p)	2020 Semi-Annual Report No. 2 (12/31/20)	1/31/2021	-	1/29/2021	100%	Complete

Table 1 - Amended Consent Order Status (Ordered by Amended CO Paragraph)

Item No.	Amended CO Paragraph	Project	Completion Date			Percent Complete ³	Status
			Required (CO) ¹	Scheduled	Actual ²		
30	6(o,p)	2021 Semi-Annual Report No. 1 (6/30/21)	7/31/2021	7/23/2021	-	-	On Schedule
31	6(o,p)	2021 Semi-Annual Report No. 2 (12/31/21)	1/31/2022	1/24/2022	-	-	On Schedule
32	6(o,p)	2022 Semi-Annual Report No. 1 (6/30/22)	7/31/2022	7/22/2022	-	-	On Schedule
33	6(o,p)	2022 Semi-Annual Report No. 2 (12/31/22)	1/31/2023	1/24/2023	-	-	On Schedule
34	6(o,p)	2023 Semi-Annual Report No. 1 (6/30/23)	7/31/2023	7/24/2023	-	-	On Schedule
35	6(o,p)	2023 Semi-Annual Report No. 2 (12/31/23)	1/31/2024	1/24/2024	-	-	On Schedule
36	6(o,p)	2024 Semi-Annual Report No. 1 (6/30/24)	7/31/2024	7/24/2024	-	-	On Schedule
37	6(o,p)	2024 Semi-Annual Report No. 2 (12/31/24)	1/31/2025	1/24/2025	-	-	On Schedule
38	6(o,p)	2025 Semi-Annual Report No. 1 (6/30/25)	7/31/2025	7/24/2025	-	-	On Schedule
39	6(o,p)	2025 Semi-Annual Report No. 2 (12/31/25)	1/31/2026	1/23/2026	-	-	On Schedule
40	6(o,p)	2026 Semi-Annual Report No. 1 (6/30/26)	7/31/2026	7/24/2026	-	-	On Schedule
41	6(o,p)	2026 Semi-Annual Report No. 2 (9/30/26)	10/31/2026	10/23/2026	-	-	On Schedule
42	8	Cost of Corrective Actions Paragraphs 6(a) - 6(l)	3/28/2018	-	3/28/2018	100%	Complete
43	8	Cost of Corrective Actions Phase II Projects	7/21/2020	-	7/21/2020	100%	Complete
44	12	Pay Administrative Fee	10/29/2017	-	10/16/2017	100%	Complete
45	13/EX D	Submit Intent to Submit In-Kind One Proposal	10/14/2017	-	10/11/2017	100%	Complete
46	13/EX D	Submit Detailed Proposal to FDEP	11/28/2017	-	11/22/2017	100%	Complete
47	13/EX D	Obtain Approval or Rejection from FDEP for In-kind One Project	1/27/2018	-	5/16/2018	100%	Complete
48	13/EX D	Design/Permit/Bid/ Construct In-Kind One Project	12/2/2020	-	11/30/2020	100%	Complete
49	13/EX D	Notify FDEP of In-Kind One Project Completion	15 days after completion of In-Kind Project	-	11/30/2020	100%	Complete
50	26	Publish Notice of Consent Agreement	10/14/2017	-	10/14/2017	100%	Complete

Table 1 - Amended Consent Order Status (Ordered by Amended CO Paragraph)

Item No.	Amended CO Paragraph	Project	Completion Date			Percent Complete ³	Status
			Required (CO) ¹	Scheduled	Actual ²		
51	26	Provide Certified Copy of Notice to FDEP	10/24/2017	-	10/17/2017	100%	Complete
Additional Consent Order Milestone (Per Amended CO-Signed October 12, 2020)							
52	6(q)	Install and Connect at least (1) Temporary Emergency Generator at the G.T. Lohmeyer WWTP	7/12/2021	-	6/29/2021	100%	Complete
53	6(r)	Install Permanent Emergency Generator(s) at the G.T. Lohmeyer WWTP	2/12/2024	2/12/2024	-	21%	On Schedule
54	6(s)	Create and Submit a (Rapid Response Plan)	8/12/2021	8/12/2021	-	-	On Schedule
55	6(s), 10	FDEP Review and Approval of Rapid Response Plan	9/11/2021	9/11/2021	-	-	On Schedule
56	9(a)	Estimate of the Amount of Solids released from the sewage, estimate of how much was released remains in the waterway and of that, how much has settled to the bottom of the waterway.	4/10/2021	-	12/28/2020	100%	Complete
57	9(b)	Develop and Submit a Water Quality Assessment Plan (per FAC Rule 62-302)	5/30/2021	-	5/29/2021	100%	Complete
58	9(b),10	FDEP Review and Approval of Water Quality Assessment Plan	6/28/2021	-	6/28/2021	-	Under review, comments for Himmarshee Canal report have not been received yet.
59	9(b)	Submit Water Quality Evaluation Report	8/8/2021	-	5/29/2021	100%	Complete
60	9(b),10	FDEP Review and Water Quality Evaluation Report	6/28/2021	-	6/28/2021	-	Under review, comments for Himmarshee Canal report have not been received yet.
61a	9(c)	Corrective Action Plan (CAP)	-	-	-	N/A	Not Applicable since the Water Quality Evaluation Reports for the Tarpon River, George English Lake and Himmarshee Canal

Table 1 - Amended Consent Order Status (Ordered by Amended CO Paragraph)

Item No.	Amended CO Paragraph	Project	Completion Date			Percent Complete ³	Status
			Required (CO) ¹	Scheduled	Actual ²		
							ascertained that the remaining solids in the Waterways are not causing or contributing to violations of water quality standards as defined in Florida Administrative Code Rule 62-302 (Water Quality Assessment Plan).
62a	9(c),10	FDEP Review and Approval of Corrective Action Plan (CAP)	-	-	-	N/A	Not Applicable since a Corrective Action Plan (CAP) is not required.
61b	9(d)	Surface Water Enhancement Plan	11/6/2021	-	5/29/2021	100%	Complete
62b	9(d),10	FDEP Review and Approval of Surface Water Enhancement Plan	6/28/2021	-	6/28/2021	-	Under review, comments for Himmarshee Canal report have not been received yet.
63	11	Updated Written Estimate of the Total Cost of the Corrective Actions for Para. 6(q) to 6(s)	4/10/2021	-	4/9/2021	100%	Complete
64	18	Pay Administrative Fee	11/11/2020	-	10/29/2020	100%	Complete
65	18/EX E	Submit Intent to Submit In-Kind Two Proposal	11/11/2020	-	11/5/2020	100%	Complete
66	18/EX E	Submit Detailed In-Kind Two Proposal to FDEP	12/11/2020	-	12/8/2020	100%	Complete
67	18/EX E	Obtain Approval or Rejection from FDEP for In-kind Two Project	2/9/2021	-	1/20/2021	100%	Complete
68	18/EX E	Design/Permit/Bid/ Construct In-Kind Two Project	3/31/2024	-	-	-	On Schedule
69	18/EX E	Notify FDEP of In-Kind Two Project Completion	4/15/2024	-	-	-	On Schedule
70	18/20/EX E	Annual Certification Form # 1	1/20/2022	1/20/2022	-	-	On Schedule

Table 1 - Amended Consent Order Status (Ordered by Amended CO Paragraph)

Item No.	Amended CO Paragraph	Project	Completion Date			Percent Complete ³	Status
			Required (CO) ¹	Scheduled	Actual ²		
71	18/20/EX E	Annual Certification Form # 2	1/20/2023	1/20/2023	-	-	On Schedule
72	18/20/EX E	Annual Certification Form # 3	1/20/2024	1/20/2024	-	-	On Schedule
73	18/20/EX E	Annual Certification Form # 4	1/19/2025	1/19/2025	-	-	On Schedule
74	18/20/EX E	Annual Certification Form # 5	1/19/2026	1/19/2026	-	-	On Schedule
75	18/20/EX E	Annual Certification Form # 6	9/30/2026	9/30/2026	-	-	On Schedule
76	33	Publish Notice of Consent Agreement	11/6/2020	-	10/28/2020	100%	Complete
77	33	Provide Certified Copy of Notice to FDEP	11/16/2020	-	11/5/2020	100%	Complete
78	6(n)	AM and CMOM Programs Implementation	12/31/2024	12/31/2024	-	30%	Refer to Section 2.8 for implementation activities initiated and/or completed during this reporting period.

1: Amended CO deadline dates that fall on a weekend or federal government holiday will be moved to the next business day.

2. For construction projects, dates in the actual column are the day of Substantial Completion (City beneficial use). For other activities/deliverables they are defined as the date of submittal to FDEP.

3: Percent Complete is for the entire life cycle of the project, i.e., planning, design, bidding, and construction through final completion.

4: On 3/26/2020, FDEP indicated via email that the Department had 30 days to respond with comments and that since no comments were sent, the commenting period on the plan had expired.

Seven (7) required tasks were completed during this reporting period as presented in **Table 2**. The table lists the Amended CO paragraph reference, task description, Amended CO due date, and actual completion date.

Table 2 – Amended CO Tasks Required in Reporting Period (Ordered by Due Date)

Amended CO Reference	Task Description	Amended CO Due Date	Actual Completion Date
18/EX E	Obtain Approval or Rejection from FDEP for In-kind Two Project	2/9/2021	1/20/2021
6(o,p)	2020 Semi-Annual Report No. 2 (12/31/20)	1/31/2021	1/29/2021
11	Updated Written Estimate of the Total Cost of the Corrective Actions for Para. 6 (q) to (s)	4/10/2021	4/9/2021
9(b)	Develop and Submit a Water Quality Assessment Plan (per FAC Rule 62-302)	5/30/2021	5/29/2021
9(b)	Submit Water Quality Evaluation Report	9/26/2021	5/29/2021
9(d)	Surface Water Enhancement Plan	12/25/2021	5/29/2021
6(q)	Install and Connect at least (1) Temporary Emergency Generator at the G.T. Lohmeyer WWTP	7/12/2021	6/29/2021

2.2 Force Main Projects

Table 3 lists eight force main projects required under Amended CO Paragraph 6(e) with a completion date of September 30, 2026. However, the Force Main Condition Assessment Report required under Amended CO Paragraph 6(h) and submitted to FDEP on March 23, 2020 has recommended five additional Force Main projects to be added to the list of Phase II Amended Consent Order Projects. The projects and their descriptions have been added below and are included in **Table 4**.

Figure 1 shows the force main project layouts and locations, as well as the status as of June 30, 2021.

Table 3 - Phase II Force Main Project Status Amended Consent Order Paragraph 6(e)

Project ID No.	Phase II Project Name	Description	Percent Complete ¹	Status
1	NE 25th Ave. 24" Force Main	Replace or rehabilitate approx. 5,500 feet of RCP force main along NE 25th Ave.	45%	The draft Design Criteria Package (DCP) was completed, while easement coordination efforts continue. Progress during this period was limited due to delay caused by ongoing easement acquisition coordination.
2	NE 38th St. & NE 50th Ct. 42" Force Main (Modified) ²	Replace or rehabilitate approx. 8,000 feet of DIP force main along NE 38th St. and install 2,500 feet of new 24" force main along NE 50th Ct (modified).	40%	Working with Coral Ridge Golf Course and Oakland Park to obtain required easements and permission to construct in right-of-way, while continuing to develop and finalize the Design Criteria Package (DCP). Progress during this period was limited due to delay caused by ongoing easement acquisition coordination, additional alternatives evaluation and funding availability.
3	NW 5th St., NW 9th Ave., & W. Sistrunk Blvd. 30" Force Main	Replace or rehabilitate approx. 12,000 feet of CIP force main along NW 5th St. & NW 9th Ave., and install 6,000 feet of new 24" force main along Sistrunk Blvd.	100%	Substantial Completion on 6/15/18. 100% Complete as part of the Fast-tracked Project 6(b). Final Completion on 7/23/18.
4	Redundant Sewer Force Main South (Modified) ³	Install 15,000 feet of new redundant 54" force main from approx. 900 feet south of the intersection of East Sunrise Blvd. and NE 15 th Ave. to the intersection of SE 10 th Ave. and SE 18 th St (modified)	96%	Substantial Completion was reached on April 17, 2021. Broward County Certifications were obtained for all phases of project. Punch list items are ongoing.
5	Rehabilitation of 48"/54" Force Main Replacement on SE 9th and 10th Ave. to GTL (Modified) ³	Rehabilitation or replacement of approx. 19,400 feet of the existing 48" to 54" force main along SE 9 th and 10 th Ave. to GTL WWTP (modified).	0%	Under City's budget office evaluation for funding approval.
6	Treatment Plant to Injection Wells Effluent Force Main	Replace or rehabilitate the PCCP effluent force main leading from the G.T. Lohmeyer facility to the deep injection wells.	35%	In preparation for detailed design, stakeholder coordination is ongoing for the determination of the force main route. Progress during this period was limited due to delay caused by ongoing easement acquisition coordination, coordination with key stakeholders, and alternative pipeline routes evaluation.
7	NW 13th St. 24" Force Main	Replace or rehabilitate approx. 3,300 feet of CIP force main along NW 13th St.	95%	Bids were received on 1/21/2020. The Notice to Proceed was given to the Design-Build Firm (DBF) on 7/27/2020. DBF completed the force main design and permitting,

Table 3 - Phase II Force Main Project Status Amended Consent Order Paragraph 6(e)

Project ID No.	Phase II Project Name	Description	Percent Complete ¹	Status
				and started construction on 1/25/2021.
8	NE 9th St. to Birch Rd. River Crossing 18" Force Main	Replace or rehabilitate approx. 3,200 feet of DIP force main river crossing from NE 9th St. to Birch Rd.	93%	DBF has been selected and approved by City. NTP was issued to contractor on January 4, 2021. Design and permits have been finalized. Construction began in May and is ongoing.

1: Percent Complete is for the entire life cycle of the project, i.e., planning, design, bidding, and construction through final completion.

2: Based on City's formal "Request for Modification to Amended Consent Order Paragraph 6(e): Exhibit C Line 2 – NE 38th Street and NE 19th Street 42-in Force Main" letter to FDEP dated October 24, 2019.

3: Based on City's formal "Notification of Modification to Amended Consent Order Paragraph 6(e): Exhibit C Line 4 & 5 – SE 10th Avenue 48" Force Main & US-1 48" Force Main" letter to FDEP dated June 12, 2020.

Table 4 - Projects Added to Amended Consent Order Phase II Force Mains as Recommended by the Force Main Condition Assessment Report - Paragraph 6(h)

Project ID No.	Phase II Project Name	Description	Percent Complete ¹	Status
9	South Middle River Force Main River Crossing	Replace a 12" ductile iron pipe subaqueous crossing beneath the South Middle River and NE 21st St.	100%	The project reached Substantial Completion on August 5, 2020, and Final completion on August 31, 2020. Project completion Notification letter was sent to FDEP on November 12, 2020.
10	Force Main (From Pump Station D-35 to D-36) Upsize	Replace approximately 2,000 feet of 8" and 10" cast-iron pipe on the discharge of Pump Stations D-35 and D-36.	100%	The project reached Substantial Completion on March 5, 2021, and Final Completion on May 31, 2021. Project completion Notification letter was sent to FDEP on June 29, 2021.
11	Redundant Sewer Force Main Project North	Install approximately 27,500 feet of 42" force main from the discharge of Repump Station B to south of Sunrise Blvd. to provide redundancy to the existing 42" Repump Station B discharge force main.	75%	Design and construction of the new force main are ongoing.
12	NE 36th St. Force Main Improvements	Replace approximately 1,200 feet of 12" cast iron pipe along NE 36th St., east of Bayview Drive	100%	Final completion was reached on March 20, 2020. Project completion Notification letter was sent to FDEP on November 12, 2020.
13	NE 5 th St. Force Main Improvements Victoria Park 16" Force Main Repair	Replace approximately 4,700 feet of 16" cast iron pipe in the Victoria Park neighborhood.	100%	Final completion was reached on February 25, 2020. Project completion Notification letter was sent to FDEP on November 12, 2020.

1: Percent Complete is for the entire life cycle of the project, i.e., planning, design, bidding, and construction through final completion.

2.3 Emergency Generators at the G.T. Lohmeyer WWTP Projects

2.3.1 Temporary Emergency Generator at the G.T. Lohmeyer WWTP

Paragraph 6(q) of the Amended CO specifies that the City install and connect at least one temporary generator at the G.T. Lohmeyer Wastewater Treatment Plant (WWTP) to power at least one injection well pump during periods when there is no electricity. The temporary generator is to be maintained in place and remain operational until the permanent emergency generator(s) is installed and fully operational, pursuant to Paragraph 6(r).

Per the Amended CO, the Temporary Generator is to be in place and operational by July 12, 2021 (i.e., 9 months after the effective date of the Amended CO).

During this reporting period, the City procured the temporary generator, completed design and bidding/installation of the temporary generator and electrical connection. On June 29, 2021, an operational test was completed successfully and the project was declared substantially complete by the City, ahead of the Amended CO due date of July 12, 2021.

Table 5 – Temporary Emergency Generator at GTL WWTP Status Amended Consent Order Paragraph 6(q)

Project Name	Description	Percent Complete ¹	Status
Temporary Emergency Generator at GTL WWTP	Install and Connect at least one Temporary Emergency Generator at the G.T. Lohmeyer WWTP	100%	City procured the temporary generator. Design and bidding/installation of the temporary generator and electrical connection are complete. Substantial Completion letter was issued to the Contractor on June 29, 2021.

1: Percent Complete is for the entire life cycle of the project, i.e., planning, design, bidding, and construction through final completion.

2.3.2 Permanent Emergency Generator(s) at the G.T. Lohmeyer WWTP

Paragraph 6(r) of the Amended CO specifies that the City install a permanent emergency generator(s) at the G.T. Lohmeyer Wastewater Treatment Plant (WWTP) to supply sufficient power to operate the injection well pumping system at full permitted capacity during periods when there is no electricity.

Per the Amended CO, the permanent emergency generator(s) is to be in place and operational by February 12, 2024 (i.e., 40 months after the effective date of the Amended CO). The generator(s) is (are) expected to be installed and operational before the required Amended CO due date.

During this reporting period, the City's consultant completed a Feasibility Study that evaluated options to provide emergency electrical power needed to run the effluent pumps. The City is in the process of preparing a design criteria package (DCP) and procurement package for a Design-Build Firm (DBF) for project implementation.

Table 6 - Permanent Emergency Generator(s) at GTL WWTP Status Amended Consent Order Paragraph 6(r)

Project Name	Description	Percent Complete ¹	Status
Effluent Pumps Standby Generator & Admin Building Improvements	Install Permanent Emergency Generator(s) at the G.T. Lohmeyer WWTP	21%	Feasibility study was completed by City's Consultant. City is preparing a design criteria package (DCP) and procurement package for a design-build firm (DBF) for project implementation.

1: Percent Complete is for the entire life cycle of the project, i.e., planning, design, bidding, and construction through final completion.

2.4 Rapid Response Plan

Paragraph 6(s) of the Amended CO specifies the City create and submit a Rapid Response Plan to FDEP. The Rapid Response Plan's purpose is to demonstrate the steps taken to acquire rapid response assistance from private and other public entities to further mitigate the impacts of unauthorized discharges and reduce the amount of time it takes to stop unauthorized discharges of wastewater. The plan is due on August 12, 2021 (10 months after the effective date of the Amended CO).

During this period, the Rapid Response Plan (RRP) preparation has been tasked to Hazen and Sawyer (Hazen). The RRP is being developed by Hazen and will address the key requirements stipulated in the Amended CO Paragraph 6(s).

2.5 Environmental Analysis

Paragraph 9 of the Amended CO outlines the requirements to complete an environmental analysis of the George English Lake, the Tarpon River, and Himmarshee Canal ("Waterways") to assess the potential impacts caused by the December 2019, January 2020, and February 2020 unauthorized discharges.

2.5.1 Estimated Solids Report

Paragraph 9(a) of the Amended CO specifies for the City to provide to FDEP an estimate of the amount of solids released from the sewage and an estimate of how much of the released solids remain in the Waterways and of that remaining amount, how much has settled to the bottom of the Waterways. The report is due April 10, 2021 (180 days after the effective date of the Amended CO).

During this reporting period, the City completed and submitted the Water Quality Assessment Reports for Himmarshee Canal, submitted on May 29, 2021. It should be noted that the Water Quality Assessment Reports for Tarpon River and George English Lake were submitted on December 28, 2020. All of these reports included a Technical Memorandum (TM) titled "George English Lake, Tarpon River, and Himmarshee Canal Discharge Evaluation", prepared by Hazen and Sawyer and dated December 4, 2020. The evaluation presented in this TM has met the requirement of Paragraph 9(a) of the Amended CO.

2.5.2 Water Quality Assessment Plan and Evaluation Report

Paragraph 9(b) of the Amended CO specifies for the City to develop and submit to FDEP for approval a plan to ascertain if the remaining solids in the Waterways are causing or contributing to violations of water quality standards as defined in Florida Administrative Code rule 62-302 (Water Quality Assessment Plan). The plan is due April 10, 2021 (180 days after the effective date of the Amended CO).

Following approval of the Water Quality Assessment Plan by FDEP, the City will submit a Water Quality Evaluation Report Signed and Sealed by a Professional Engineer licensed in Florida, in accordance and in compliance with the approved Water Quality Assessment Plan. The report is due within 90 days after the FDEP approval of the Water Quality Assessment Plan.

At the end of the previous reporting period, the City completed and submitted the Water Quality Assessment Reports for Tarpon River and George English Lake, as noted in the City's transmittal letter dated December 28, 2020 (copy of the letter is included in **Appendix B**). In the letter, the City also noted that its consultants are conducting field work related to Himmarshee Canal assessment that will be submitted separately.

During this reporting period, the City received an email from FDEP on March 15, 2021, which confirmed that the Tarpon River and George English Lake reports satisfied Paragraph 9(b) of the Amended CO. The Water Quality Assessment Report for the Himmarshee Canal was submitted to FDEP on May 29, 2021, ahead of the FDEP Approved extension to May 30, 2021 (copy of the letter is included in **Appendix B**). The FDEP review of the Water Quality Assessment Report for the Himmarshee Canal was due by June 28, 2021; however, no comments were received from FDEP.

2.5.3 Corrective Action Plan (CAP) / Surface Water Enhancement Plan

Paragraph 9(c) of the Amended CO specifies that if the Water Quality Evaluation Report concludes that the remaining solids are causing or contributing to water quality standards violations, then the City will submit to FDEP for approval, a Corrective Action Plan (CAP). The CAP shall include a compliance schedule with dates of completion for the deliverables listed in the CAP. The plan is due within 90 days after the submittal of the Water Quality Evaluation Report.

Paragraph 9(d) of the Amended CO specifies that if the Water Quality Evaluation Report concludes that the remaining solids did not impact the Waterways, then the City will submit to FDEP a Surface Water Enhancement Plan providing environmental benefits to the Waterways. The plan shall include a compliance schedule with dates of completion for the deliverables listed in the enhancement plan. The plan is due within 90 days after the submittal of the Water Quality Evaluation Report.

During the previous reporting period, it was identified that a Corrective Action Plan (CAP) is not required, since No Violation (per FAC Rule 62-302) was concluded in the Water Quality Assessment Reports for the George English Lake, Tarpon River and Himmarshee Canal.

During this reporting period, the City received an email from FDEP on March 15, 2021, which confirmed that the Tarpon River and George English Lake reports satisfied Paragraph 9(d) – Surface Water Enhancement Plans of the Amended CO. The Surface Water Enhancement Plan for the Himmarshee Canal was included in the Water Quality Assessment Report submitted to FDEP on May 29, 2021, ahead

of the FDEP Approved extension to May 30, 2021 (copy of the letter is included in **Appendix B**). The FDEP review of the Water Quality Assessment Report for the Himmarshee Canal was due by June 28, 2021; however, no comments were received from FDEP.

2.6 Updated Written Estimate of the Total Cost of the Corrective Actions

Paragraph 11 of the Amended CO specifies the City shall submit to FDEP an updated written estimate of the total cost of the corrective actions in Subparagraphs 6(q) through 6(s). The written estimates shall identify the information the City relied upon to provide the estimate. The written estimate is due on April 10, 2021 (180 days after the effective date of the Amended CO).

During this period, the Total Cost of the Corrective Actions Report preparation was tasked to Hazen and Sawyer (Hazen). The Total Cost of the Corrective Actions Report was prepared by Hazen and was submitted to FDEP on April 9, 2021, ahead of the Amended CO due date of April 10, 2021.

2.7 In-Kind Projects Status

2.7.1 In-Kind Two Project

Paragraph 18 of the Amended CO provides for the City to implement an additional \$3,167,250 In-Kind Two Project in lieu of paying civil penalties to the State. An In-Kind Two Project proposal in accordance with Amended CO Exhibit E was submitted by the City to FDEP on December 8, 2020. The City's project proposal was approved by FDEP on January 20, 2021. **Table 7** indicates the status of the In-Kind Two Project's critical dates.

Table 7 - In-Kind Two Project Status

Task	Amended CO Due Date	Status	Remarks
Intent to submit In-Kind Proposal	11/12/20	Complete	Submitted 11/5/20
Submit In-Kind Proposal	12/12/20	Complete	Submitted 12/8/20
FDEP Review of Proposal	NA	Complete	FDEP provided approval of the In-Kind Two Project proposal on January 20, 2021.
Provide requested information	15 days after request	NA	
City Proposal Revision	30 days after request	NA	
City must have approval	NA	NA	
Complete Proposed Project	3/31/2024	Pending	Projects are currently in Bidding and Construction Phase
City Pays Penalty (Project Rejected)	30 days of reject notice	NA	
Project Completion Notice	15 days after completion		
Pay Penalty (City Default)	30 days from default	NA	

2.8 AM and CMOM Programs Implementation Status

Paragraphs 6(i), 6(k), 6(l), and 6(n) of the Amended Consent Order require the CITY to develop and implement Asset Management (AM) and Capacity, Management, Operation and Maintenance (CMOM) Programs for the Collection System and to provide schedules for the implementation of the AM and CMOM Programs. The AM and CMOM Programs Development Plan was submitted to FDEP on August 28, 2018. The initial AM and CMOM Programs and Implementation Schedule were submitted to FDEP on June 25, 2020, and were resubmitted on June 9, 2021, after incorporating FDEP review comments. The Programs are currently in the implementation phase. A status update on the AM and CMOM Programs implementation activities are shown in **Table 8**.

Table 8 – AM and CMOM Programs Implementation Activities

Section	Implementation Activity	Implementation Activity Description	Percent Complete	Status
A6.3	Information Management	The City utilizes various tools for information management, data retrieval, document organization, and data sharing. Cityworks is assuming greater importance in records management as the implementation proceeds. Multiple information management activities have been identified as part of AM and CMOM implementation, including review of security measures and personnel authorizations, tracking and reporting of work orders and performance measures, and review of procedures for data creation and storage.	50%	Implementation Initiated
A6.4	Budgeting	Activities under this task focus on shifting the budgeting process away from reactive/emergency operations and towards more planned and predictive expenditures.	0%	Implementation to be initiated during next reporting period
A3.2	Collection System Model and Capacity Assessment	The hydraulic model will require periodic re-evaluation and updating as improvements are constructed in the system and the physical infrastructure changes. The focus of this task is designation of resources, as well as the review and updating of procedures to maintain and update the model.	8%	Implementation Initiated
A5.1	Gravity Sewer Operation and Maintenance	Activities under this task focus on shifting the collection system O&M process away from reactive/emergency operations and towards more planned and predictive maintenance. A Continuous Sewer Assessment Program (CSAP) is being developed, that will reflect improved knowledge of condition-based needs in the collection system. This task also includes the review and updating of existing procedures, and coordination with GIS and CityWorks Implementation.	46%	Implementation Initiated
A6.6	Legal Support	Large User Agreements and the City's Sewer Use Ordinance are being reviewed for consistency with additional commitments and demands related to Consent Order compliance and AM and CMOM Programs Implementation.	8%	Implementation Initiated. Activity to be completed in the next year.
A3.1	Sewer System Evaluation Survey (SSES)	A system-wide SSES Program is being developed to achieve target levels of service for the gravity collection system. The focus of this task is designation of resources, as well as the review and updating of procedures needed to meet program goals.	5%	Implementation Initiated

Section	Implementation Activity	Implementation Activity Description	Percent Complete	Status
A4.1	Design and Construction Process	Existing forms, details, and SOPs will be reviewed to ensure adequate guidance is in place for conducting design reviews and involvement of O&M staff. A life cycle cost analysis will be implemented for new designs.	0%	Implementation to be initiated during next reporting period
A5.2	Pump Station and Force Main Operation and Maintenance	Activities under this task focus on shifting the pump station and force main O&M process away from reactive/emergency operations and towards more planned and predictive maintenance. This task also includes the review and updating of existing procedures, and coordination with GIS and CityWorks Implementation.	47%	Implementation Initiated
A6.2	Training	The focus of this task will be to review and update existing SOPs and curricula for all essential on-the-job training.	0%	Implementation Upcoming
A2.1	Sewer Overflow Response Plan	The GIS will be populated with SSO locations. A formal annual KPI review meeting will be established to evaluate possible SSORP modifications/improvements, define associated implementation procedures, and assess progress in implementation of previously adopted modifications/improvements.	0%	Implementation Upcoming
A5.3	Equipment, Parts, and Tools Management	The focus of this task is assessment of whether procedures for management of equipment, tools, and materials could potentially be improved. The inventory management system and inventory analysis practices are also being evaluated.	41%	Implementation Initiated
A6.5	Customer Service	This task will focus on review of existing public education and outreach programs, implementation of Q-Alert into CityWorks AMS, and tracking of customer complaints resolved to reflect the City's responsiveness goals.	0%	Implementation Upcoming
A6.7	Fats, Oils, and Grease (FOG)	The GIS will be used to assess sources of FOG and problem areas. The existing FOG program will be periodically reviewed for effectiveness and any necessary enhancements will be implemented.	0%	Implementation Upcoming

1: AM and CMOM Implementation Action Items were identified in the AM and CMOM Programs report dated January 11, 2021, which was submitted to FDEP on June 9, 2021.

3.0 One-Year Look Ahead

The Amended CO Program Status (**Table 1**) and the Master Program Schedule (**Appendix D**) indicate that Eight (8) Amended CO milestones are due to be completed during the next year. These milestones are shown in **Table 9** below:

Table 9 - One-Year Look Ahead Tasks

Amended CO Paragraph	Project	Amended CO Due Date	Scheduled Completion Date	Status
9(b),10	FDEP Review and Approval of Water Quality Assessment Plan	6/28/2021	6/28/2021	Under review
9(b),10	FDEP Review and Water Quality Evaluation Report	6/28/2021	6/28/2021	Under review
9(d),10	FDEP Review and Approval of Surface Water Enhancement Plan	6/28/2021	6/28/2021	Under review
6(o,p)	2021 Semi-Annual Report No. 1 (6/30/21)	7/31/2021	7/23/2021	On Schedule
6(s)	Create and Submit a (Rapid Response Plan)	8/12/2021	-	On Schedule
6(s), 10	FDEP Review and Approval of Rapid Response Plan	9/11/2021	-	On Schedule
18/20/EX E	Annual Certification Form # 1	1/20/2022	1/20/2022	On Schedule
6(o,p)	2021 Semi-Annual Report No. 2 (12/31/21)	1/31/2022	1/24/2022	On Schedule

Appendix A: Amended Consent Order



FLORIDA DEPARTMENT OF Environmental Protection

Southeast District Office
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
561-681-6600

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

October 12, 2020

Dean J. Trantalis, Mayor
City of Fort Lauderdale
City Hall
100 N. Andrews Ave.
Fort Lauderdale, FL 33301
DTrantalis@fortlauderdale.gov

Re: Executed Amended Consent Order
OGC File No. 16-1487
Broward County

Dear Mayor Trantalis:

Enclosed for your implementation is the fully executed Amended Consent Order in the above-styled case. This copy is for your records. Please be mindful of all required deadlines within the Order to ensure compliance.

Your cooperation in this matter is appreciated.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jason Andreotta".

Jason Andreotta
Director, Southeast District
Florida Department of Environmental Protection

Enclosure: Amended Consent Order

cc: Chris Lagerbloom, City of Ft. Lauderdale, CLagerbloom@fortlauderdale.gov
Raj Verma, City of Ft. Lauderdale, RVerma@fortlauderdale.gov
Alain E. Boileau, City of Ft. Lauderdale, ABoileau@fortlauderdale.gov
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BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA, DEPARTMENT)	IN THE OFFICE OF THE
OF ENVIRONMENTAL PROTECTION)	SOUTHEAST DISTRICT
)	
v.)	OGC FILE NO. 16-1487
)	
CITY OF FORT LAUDERDALE)	
_____)	

AMENDED CONSENT ORDER

On September 27, 2017 Consent Order OGC File No. 16-1487 (First Order) between the State of Florida Department of Environmental Protection (Department) and City of Fort Lauderdale (Respondent) became final and effective. This Amended Consent Order (Amended Order) is entered into between the Department and Respondent to reach settlement of certain matters at issue between the Department and the Respondent. This Amended Order supersedes and replaces the First Order.

The Department finds and the Respondent neither admits nor denies the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to protect Florida's air and water resources and to administer and enforce the provisions of Chapter 403, Florida Statutes (F.S.), and the rules promulgated and authorized in Title 62, Florida Administrative Code (F.A.C.). The Department has jurisdiction over the matters addressed in this Amended Order.

2. The Respondent is a municipal corporation in the State of Florida and a person within the meaning of Section 403.031(5), F.S.

3. The Respondent is the owner and is responsible for the operation of the following:

a) The G.T. Lohmeyer Wastewater Treatment Plant, a 56.6 million gallons per day, pure oxygen activated sludge facility with secondary effluent disposed of via 5 deep injection wells (Facility). The Facility is operated under Wastewater Permit No. FLA041378-014 (Permit), which was issued by the Department on May 4, 2016, and will expire on September 6, 2021. The Facility is located at 1765 SE 18th Street, Fort Lauderdale, Florida, 33309, in Broward County, Florida (Property). The Respondent owns the Property on which the Facility is located.

b) The domestic wastewater collection and transmission system (Collection System) serves the Respondent and its customers. The Collection System delivers the collected wastewater to the Facility for treatment and disposal.

4. The Department makes the following findings of fact and conclusions of law to which the

Respondent neither admits nor denies:

a) During the periods from January 1, 2014 to August 31, 2017 and December 10, 2019 to February 14, 2020, the City released untreated wastewater from the Collection System into surface waters and/or groundwaters of the State as follows:

Date	Volume (gallons)
02/05/17	123,041
4/28/17	1,500
4/30/17	1,350
5/19/17	9,874
5/26/17	154,270
6/14/17	3,000
6/19/17	3,900
6/30/17	3,000
8/4/2017	2,000
8/28/2017	100,000
8/30/2017	1,000
8/31/2017	23,730

Date	Volume (gallons)
12/30/16	17,460
12/19/16	145,887
12/17/16	2,545,560
12/01/16	4,820
07/18/16	79,800
06/23/16	10,620,000
06/23/16	3,217,501
6/23/16	852,499
06/22/16	1,000
03/18/16	94,828
02/16/16	1,820,000
02/14/16	1,000
01/07/16	6,525

Date	Volume (gallons)
10/29/15	177,250
10/26/15	100,965
10/23/15	279,930
10/20/15	13,500
10/14/15	1,000
10/08/15	2,000
09/28/15	76,308
09/20/15	2,000
09/06/15	10,000
08/19/15	8,000
07/31/15	3,600
07/05/15	5,000
06/29/15	3,335
05/09/15	50,400
04/30/15	25,000
01/26/15	1,500
01/22/15	12,900

Date	Volume (gallons)
12/22/14	73,815
11/16/14	4,200
07/16/14	46,575
07/10/14	24,480
05/18/14	212,500
05/06/14	4,000
03/31/14	1,600

<u>Date</u>	<u>Volume (gallons)</u>
<u>12/10/19</u>	<u>35,400,000</u>
<u>12/20/19</u>	<u>77,570,000</u>
<u>12/21/19</u>	<u>769,533</u>

<u>12/27/19</u>	<u>154,600</u>
<u>12/30/19</u>	<u>44,620</u>
<u>12/30/19</u>	<u>8,075</u>
<u>1/30/20</u>	<u>84,720,000</u>
<u>2/14/20</u>	<u>20,520,000</u>

The Department finds that the foregoing releases in Paragraph 4(a) violate Rules 62-604.130, 62-330 and 62-302, F.A.C., as well as Section IX, General Condition 5 of Wastewater Permit No. FLA041378-014 and Part I.D. of Phase I Municipal Stormwater Permit No. FLS000017-004. Furthermore, the releases from December 10, 2019 violate Consent Order OGC Case No.: 16-1487.

5. This Amended Order has been entered into by the Respondent for the purposes of settlement only. Accordingly, neither the recitals nor the Department's findings in this Amended Order, nor the terms and conditions of this Amended Order, nor the Respondent's compliance with those terms and conditions, shall be construed in any legal or administrative action, proceeding or litigation, as an admission that the Respondent has violated any statute, regulation, or ordinance or has otherwise committed a breach of any duty at any time, or of any fact, inference or conclusion of law.

Having reached a resolution of the matter, the Respondent and the Department mutually agree, and it is hereby **ORDERED**:

6. Respondent shall comply with the following corrective actions within the stated time periods:

a) No later than February 28th, 2018, the Respondent shall replace approximately 1900 linear feet (lf) of 12" diameter force main at high risk of failure along Las Olas Blvd. The cost of this project is estimated at \$1,500,000.00.

b) No later than May 31st, 2018, the Respondent shall replace approximately 11,620 lf of failing 30" diameter force main that connects Repump Station A, located on Sistrunk Blvd, to the force main located at the intersection of SW 6th Ave and 7th St. The cost of this project is estimated at \$8,700,000.00.

c) No later than September 30th, 2020, the Respondent shall complete the pump station rehabilitation and replacement projects listed in *Exhibit A: Phase I Projects*, in order to facilitate existing flows capacity and future projected increase in demands.

d) No later than September 30th, 2020, the Respondent shall complete the infiltration/inflow (I/I) projects listed in *Exhibit B: Phase I Projects*, in order to reduce flows and lower

peak demands and stresses on the system during rain events.

e) No later than September 30th, 2026, the Respondent shall complete the following force main rehabilitation projects listed in *Exhibit C of Phase II Projects*, in order to repair and/or replace the infrastructure with the highest risk of failure.

f) **Existing Schedule:** Within 90 days of September 27, 2017, the Respondent shall provide to the Department the existing schedule for repair, upgrade, or replacement of existing Collection System assets during the next 2 years, including schedules for repair, upgrade, or replacement of the existing force mains, gravity mains, isolation and other control valves, air release valves, access and conflict manholes, and pump stations.

g) **Mapping Plan:** Within 9 months of September 27, 2017, the Respondent shall submit a Plan to the Department for review and comment detailing how the Respondent will develop a complete map of the existing Collection System within the City's geographic boundaries, including all existing or in-construction force mains, gravity mains, isolation and other control valves, air release valves, access and conflict manholes, pump stations, and directional flow routes of each of these components to pump stations and the receiving Facility. The Department will provide comments on the Mapping Plan within 30 days of submittal by Respondent. Mapping will include both existing and under-construction components. Directional flows, including flows to any alternate Facility not belonging to the Respondent, will be shown on the maps. Inactive mains and related appurtenances with shut-off valves should be illustrated and highlighted to define their unique operationally inactive status. Maps will be maintained in such a manner that they can be accessed quickly and easily by maintenance and repair crews at all times and from multiple locations, to facilitate prompt and efficient responses to emergencies. As new construction is completed, the Respondent will incorporate as-built drawings of the new components into the maps. Within 21 months of September 27, 2017, the Respondent shall certify to the Department in writing that mapping is complete in accordance with the terms of this paragraph. Respondent shall contemporaneously provide the Department with a description of the storage and retrieval methods and the availability of the maps to City field staff.

h) **Force Main Condition Assessment:** Within 10 months of September 27, 2017, the Respondent shall submit to the Department for review and comment a plan for completing an assessment of the current condition of all force mains in the collection system within the Respondent's jurisdiction, in sufficient detail that the resulting assessment can be used to schedule improvements of aging or deteriorating pipes, connections, valves, and appurtenances. The plan shall include the methods to be used and a schedule for conducting the assessment. The Department will provide comments on the Force Main

Condition Assessment within 30 days of submittal by Respondent. The final completion date for the assessment shall be no later than 18 months from the date of Respondent's receipt of Department comments on the plan. Within 60 days of completion of the assessment, the Respondent shall submit to the Department a report summarizing the results of the condition assessment.

i) **Asset Management and CMOM Program Development Plan:** Within 11 months of September 27, 2017, the Respondent shall submit for Department review and comment a plan to develop an Asset Management and Capacity, Management, Operations and Maintenance Program (AM and CMOM Program). The Department will provide comments on the AM and CMOM Plan within 30 days of submittal by Respondent. The plan shall describe how the Respondent will develop the AM and CMOM Program, including the items required in Subpara. 6(k) below, and follow the Environmental Protection Agency's (EPA) guidance in the following references, available along with additional references via www.epa.gov:

- EPA 305-B-05-002, *Guide for Evaluating Capacity, Management, Operation, and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems*
- EPA 816-F-08-014, *Asset Management: A Best Practices Guide*

j) **Capacity Evaluation:** Within 20 months of September 27, 2017 the Respondent shall complete an evaluation of the capacity of the Collection System, including all existing force mains, gravity mains, and pump stations. Within 22 months of September 27, 2017, the Respondent shall submit to the Department a report summarizing the results of the capacity evaluation, specifically identifying any assets with insufficient capacity for current and known projected demands over the next 10 years.

k) **Asset Management and CMOM Program:** Within 18 months of Respondent's receipt of the Department's comments on the AM and CMOM Program Development Plan required in Subpara. 6(i) above, the Respondent shall submit for Department review and comment the written AM and CMOM Program for ongoing management of the Collection System. The Department will provide comments on the AM and CMOM Program within 30 days of submittal by Respondent. The Program shall be consistent with the EPA guidance referenced in Subpara. 6(i) above, and shall include the following:

- i) a description of grease trap ordinance requirements and the compliance monitoring and enforcement program conducted by the Respondent;
- ii) a description of how and when information from the mapping, capacity evaluation, force main condition assessment, manufacturer's maintenance and replacement recommendations, spill data, gravity sewer information, and other pertinent sources will be stored, periodically updated, and used in the ongoing Program;

iii) a description of how repairs, upgrades, and replacement of Collection System assets will be determined to be needed, prioritized, authorized, and funded, with priority given to those assets identified as critical within the City's Master Plan.

l) **Asset Management and CMOM Program Schedules:** At the time Respondent submits the Asset Management and CMOM Program to the Department for review and comment, Respondent shall also submit for Department review and approval (the Department shall provide a written response to the Respondent within 30 days of receipt) the Asset Management and CMOM Program Schedules listed below:

i) a schedule for implementing the AM and CMOM Program, including when any software upgrades or integrations needed for initial implementation of the Program will be completed and put into service, when databases the software relies upon will be populated with the information from the sources listed in 6(k)(ii) above, and when the AM and CMOM Program will be fully incorporated into planning, funding, procuring resources, and scheduling work;

ii) a schedule showing the completion date for construction of each Phase II Improvement Project identified in Exhibit C;

iii) a schedule for any other projects that need to be added to Phase II, as identified by the Force Main Condition Assessment.

m) Unless otherwise specified herein, Respondent has the right to challenge any final agency action including any determination by the Department hereunder, pursuant to Chapter 120 Fla. Stat. At the election of either the Respondent or Department, the Respondent and Department shall schedule an informal meeting to attempt a good faith resolution of any disputes that may arise under decision made hereunder; thereafter to the extent that the Respondent or Department remain aggrieved, the Department and Respondent may exercise any rights they may have under applicable statutes and administrative code rules.

n) Upon approval by the Department, the AM and CMOM Program implementation schedule and the Phase II improvements schedule shall be incorporated herein as enforceable parts of this Consent Order. It is the Respondent's responsibility to complete planning, budgeting and funding allocation, permitting, procurement, bidding and awarding each project, and initiation of construction on a schedule that will result in completion of construction by the dates required in this Amended Order. However, subsequent changes to schedules adopted pursuant to this Amended Order may be modified by mutual agreement of the Parties in writing.

o) Every 6 calendar months after the effective date of this Amended Order, the

Respondent shall submit to the Department a written progress report on the status and progress of projects being completed under this Amended Order, including the following information:

- i) the status of compliance or noncompliance with the applicable requirements of this Amended Order, and any reasons for noncompliance;
 - ii) the status of each of the Phase I and II projects listed in Exhibits A, B, and C;
- and
- iii) a projection of the work the Respondent will perform pursuant to this Amended Order during the 12-month period following the report.
- p) The Respondent shall submit progress reports to the Department on or before July 31, for the period from January 1 through June 30, and on or before January 31, for the period from July 1 through December 31 each year.

Respondent shall also comply with the additional following corrective actions within the stated time periods:

- q) Within 9 months of the effective date of this Amended Order, Respondent shall install and connect at least 1 temporary emergency generator at the G.T. Lohmeyer wastewater treatment plant to power at least one injection well pump during periods when there is no electricity, and maintain the generator in place and operational until such time the permanent emergency generator(s) is installed and fully operational, pursuant to sub-paragraph 6(r) below. Notwithstanding the number of temporary generators installed at the Facility, Respondent shall remain responsible for all unauthorized discharges of wastewater pursuant to sub-paragraph 13(b) of this Order. All necessary permits shall be obtained by Respondent prior to installing the temporary generator(s) at the Facility.
- r) Within 40 months of the effective date of this Amended Order, Respondent shall install permanent emergency generator(s) at the G.T. Lohmeyer wastewater treatment plant to supply sufficient power to operate the injection well pumping system at full permitted capacity during periods when there is no electricity. All necessary permits shall be obtained by Respondent prior to installing the permanent emergency generator(s) at the Facility.
- s) Within 10 months of the effective date of this Amended Order, Respondent shall create and submit a plan (Rapid Response Plan) to the Department demonstrating steps to be taken to acquire rapid response assistance from private and other public entities to further mitigate the impacts of unauthorized discharges and reduce the amount of time it takes to stop unauthorized discharges of wastewater.

7. Notwithstanding any other time periods described above, Respondent shall complete all

corrective actions required by Paragraph 6 on or before September 30, 2026, and be in full compliance with Chapter 62-604, F.A.C., other than those excused delays agreed to by the Parties, as described in Paragraph 23.

8. Within 180 days of September 27, 2017, Respondent shall submit to the Department an updated written estimate of the total cost of the corrective actions in Subpara. 6(a) through 6(l), including costs of the Phase I improvements. Within 180 days of the completion of the Force Main Condition Assessment, Respondent shall submit to the Department an updated written estimate of the total cost of the Phase II projects in Exhibit C, along with the costs for any other assets in need of repairs, rehabilitation, or replacement as identified by the Force Main Condition Assessment. Each written estimate shall identify the information Respondent relied upon to provide the estimate.

9. The Respondent shall complete an environmental analysis of George English Lake, the Tarpon River, and Himarshee Canal (“the Waterways”) to assess the potential impacts caused by the December 2019, January 2020 and February 2020 unauthorized discharges.

a. Within 180 days of the effective date of this Amended Order, the Respondent shall provide to the Department an estimate of the amount of solids released from the sewage and an estimate of how much of the released solids remains in the Waterways and of that remaining amount, how much has settled to the bottom of the Waterways.

b. Within 180 days of the effective date of this Amended Order, the Respondent will develop and submit to the Department for approval, a plan to ascertain if the remaining solids in the Waterways are causing or contributing to violations of water quality standards as defined in Florida Administrative Code Rule 62-302 (Water Quality Assessment Plan). Within 90 days after the Department’s approval of the Water Quality Assessment Plan, the Respondent will submit a water quality evaluation report (Report) signed and sealed by a Professional Engineer licensed in Florida, in accordance and in compliance with the approved Water Quality Assessment Plan.

c. If the Report concludes that the remaining solids are causing or contributing to water quality standards violations, then, within 90 days of submittal of the Report, the Respondent will submit to the Department for approval, a Corrective Action Plan (CAP). The CAP, if required, shall include a compliance schedule with dates of completion for the deliverables listed in the CAP.

d. If impacts to the Waterways are determined to not have occurred, then, within 90 days of the submittal of the Report, the Respondent shall submit to the Department a surface water enhancement plan providing environmental benefits to the Waterways. The plan shall include a compliance schedule with dates of completion for the deliverables listed in the enhancement plan.

10. The Department shall provide Respondent with its written approval, approval with conditions or modifications as a contingency of approval, or disapproval for each of the remaining plans or reports required in Paragraphs 6 and report required in paragraph 9 of this Amended Order. Respondent shall revise and resubmit plans or reports with the Department's written comments within ten (10) days of Respondent's receipt of the Department's written comments unless such comments specify an alternative due date, in which case Respondent shall submit to the Department any revised submittal, specification, or schedule in accordance with the due date specified by the Department. Revised submittals are also subject to approval, approval with conditions and/or modifications, or disapproval by the Department following these approval procedures. Failure to meet the timeframes contained herein is subject to stipulated penalties as set forth in paragraph 12 below. Any revised submittal that is not approved or is not approved with conditions and/or modifications is considered noncompliant with the terms of this Order and is subject to stipulated penalties as set forth in paragraph 12 below. Upon receipt of the Department's written approval, or approval with conditions and/or modifications, Respondent shall implement the plans or reports in accordance with the schedule and provisions contained therein", rather than inserting the statement in each applicable paragraph.

11. Within 180 days of the effective date of this Amended Order, Respondent shall submit to the Department an updated written estimate of the total cost of the corrective actions in Subparagraphs 6(q) through 6(s). Each written estimate shall identify the information Respondent relied upon to provide the estimate.

12. Respondent agrees to pay to the Department stipulated penalties in the amount of \$1,000.00 per day for each and every day Respondent fails to comply with paragraphs 6 through 11 and 33 of this Amended Order.

13. For each day an unauthorized discharge from the Facility or the Collection System occurs during the effective period of this Amended Order, that does not qualify as Excusable Discharges as defined in subparagraph 13.b) below, Respondent agrees to pay stipulated penalties as follows:

a)	<u>Amount per day per Discharge</u>	<u>Discharge Volume</u>
	\$1000.00	Up to 5,000 gallons
	\$2,000.00	5,001 to 10,000 gallons
	\$5,000.00	10,001 to 25,000 gallons
	\$10,000.00	25,001 to 100,000 gallons
	\$15,000.00	In Excess of 100,000 gallons

b) If the Department elects to pursue this stipulated penalty option, the Department will evaluate each spill on a case by case basis to determine whether the spill was beyond Respondent's reasonable control; whether Respondent is exercising prudent wastewater utility practices to reduce the frequency of spills; and whether Respondent took timely and appropriate actions to reduce the environmental impact of the spill(s). A stipulated penalty will be applied to any spill where Respondent fails to provide the Department with sufficient information to demonstrate that the spill qualifies as an Excusable Discharge. For the purposes of this Order, an Excusable Discharge is a spill that resulted from a temporary, infrequent incident that was beyond the reasonable control of Respondent.

Excusable Discharges include, but are not limited to the following:

- i) Extraordinary acts of nature, including but not limited to, rainfall equal to or 6 inches of rain in a 24-hour period, hurricanes, tropical storms, extreme high-tide events, tornadoes, wildfires, lightning strikes, or events where a State of Emergency is declared;
- ii) Actions by third parties unrelated to Respondent, including construction accidents, vehicular accidents, or vandalism; actions related to a contractor acting on behalf of Respondent is not an Excusable Discharge;
- iii) Blockages that could not be prevented by reasonable measures and due diligence;
- iv) Unexpected sudden structural, mechanical, or electrical failure that could not be avoided by reasonable measures and due diligence; and
- v) Spills that are attributable to parts of the Collection

System that are undergoing rehabilitation that could not be avoided by reasonable measures and due diligence.

14. The Department may demand stipulated penalties on an annual basis at any time after violations occur beginning upon the effective date of this Amended Order. Respondent shall pay stipulated penalties owed within 60 days of the Department's issuance of written demand for payment and shall do so as further described in paragraph 21, below. Nothing in this paragraph shall prevent the Department from filing suit to specifically enforce any terms of this Amended Order. Any stipulated penalties assessed under this Paragraph shall be in addition to civil

penalties agreed to in Paragraph 15 and 17 of this Amended Order. A demand for stipulated penalties does not prevent the Department from pursuing other statutory relief, such as damages or injunctive relief. In addition, if a stipulated penalty is not applied pursuant to paragraph 13 above, the Department may pursue all statutory relief, including civil or administrative penalties.

15. For the violations listed in paragraph 4. a) beginning on 3/31/14 and ending on 8/31/17, Respondent shall pay \$339,577.00. This amount includes \$334,577.00 for civil penalties and \$5,000.00 for costs and expenses incurred by the Department during the investigation of this matter and the preparation and tracking of the First Order.

16. In lieu of making cash payment of \$334,577.00 in civil penalties as set forth in Paragraph 15 above, Respondent has elected to off-set this amount by implementing an in-kind penalty project, attached hereto and incorporated herein as Exhibit F, which was approved by the Department (hereinafter In-Kind One) Respondent shall comply with all the requirements and time frames in Exhibit D entitled In-Kind Projects for In-Kind One.

17. For the violations listed in paragraph 4. a) during the period of 12/10/19 through 2/14/20, Respondent shall pay the Department \$2,116,500 within 90 days of the effective date of this Amended Order. This amount includes \$371,500 in stipulated penalties, \$1,740,000 for civil penalties and \$5,000.00 for costs and expenses incurred by the Department during the investigation of this matter and the preparation and tracking of this Amended Order.

18. In lieu of making cash payment of \$2,111,500 in civil penalties as set forth in paragraph 17 above, Respondent may elect to offset this amount by implementing an in-kind penalty project, which must be approved by the Department. An in-kind project must be either an environmental enhancement or an environmental restoration project and may not be a corrective action requirement of the Amended Order or otherwise required by law. The Department may also consider the donation of environmentally sensitive land as an in-kind project. The value of the in-kind penalty project shall be one and a half times the civil penalty off-set amount, which in this case is the equivalent of at least \$3,167,250. If Respondent chooses to implement an in-kind project, Respondent shall notify the Department of its election by certified mail within 30 days of the effective date of this Amended Order. Notwithstanding the election to implement an in-kind project, payment of the remaining \$5,000 in costs must be paid within 30 days of the effective date of the Amended Order.

19. If Respondent elects to implement an in-kind project as provided in paragraph 18, then Respondent shall comply with all the requirements and time frames in Exhibit E entitled “In-Kind Projects for In-Kind Two.”

20. In the event that Respondent elects to off-set civil penalties including stipulated penalties by implementing an in-kind penalty project which is approved by the Department, during the period that this Order remains in effect or during the effective date of any Department issued Permit to Respondent whichever is longer (Prohibited Transfer Duration), Respondent shall not transfer or use funds obtained by the Respondent from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System (hereinafter, Prohibited Transfer). Respondent shall annually certify to the Department using the Annual Certification Form located in Exhibit E to this Order that no Prohibited Transfer has occurred. In the event of any Prohibited Transfer, the In-Kind project option shall be forfeited, and entire civil penalty shall immediately become due and owing to the Department irrespective of any expenditures by the Respondent in furtherance of the In-Kind project.

21. Respondent shall make all payments required by this Amended Order by cashier's check, money order, City check or on-line payment. Cashier's check, money order, or City check shall be made payable to the “Department of Environmental Protection” and shall include both the OGC number assigned to this Amended Order and the notation “Water Quality Assurance Trust Fund.” Online payments by e-check can be made by going to the DEP Business Portal: <http://www.fldeportal.com/go/pay/>. It will take several days after this Order is final, effective, and filed with the Clerk of the Department before ability to make online payment is available.

22. Except as otherwise provided, all submittals required by this Order shall be submitted via email at sed.wastewater@dep.state.fl.us, or sent to Wastewater Compliance Assurance Program, Department of Environmental Protection, 3301 Gun Club Road, MSC 7210-1, West Palm Beach, FL 33406.

23. Respondent shall allow all authorized representatives of the Department access to the Facilities and the Properties at reasonable times for the purpose of determining compliance with the terms of this Amended Order and the rules and statutes administered by the Department.

24. If any event, including administrative or judicial challenges by third parties unrelated to Respondent, occurs which causes delay or the reasonable likelihood of delay in

complying with the requirements of this Amended Order, Respondent shall have the burden of proving the delay was or will be caused by circumstances beyond the reasonable control of Respondent and could not have been or cannot be overcome by Respondent's due diligence. Neither economic circumstances nor the failure of a contractor, subcontractor, materialman, or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines shall be considered circumstances beyond the control of Respondent (unless the cause of the contractor's late performance was also beyond the contractor's control). Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, Respondent shall notify the Department by the next working day of the event and shall, within seven calendar days, notify the Department in writing of (a) the anticipated length and cause of the delay, (b) the measures taken or to be taken to prevent or minimize the delay, and (c) the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder shall be extended. The agreement to extend compliance must identify the provisions extended, the new compliance date or dates, and the additional measures Respondent must take to avoid or minimize the delay, if any. Failure of Respondent to comply with the notice requirements of this paragraph in a timely manner constitutes a waiver of Respondent's right to request an extension of time for compliance for those circumstances.

25. The Department, for and in consideration of the complete and timely performance by Respondent of all the obligations agreed to in this Amended Order, hereby waives its right to seek judicial imposition of damages or civil penalties for the violations described above up to the date of the filing of this Amended Order. This waiver is conditioned upon Respondent's complete compliance with all of the terms of this Amended Order.

26. This Amended Order is a settlement of the Department's civil, administrative, and delegated authority arising under Chapter 403, Florida Statutes, to resolve the matters addressed herein. This Amended Order is not a settlement of any criminal liabilities which may arise under Florida law, nor is it a settlement of any violation which may be prosecuted criminally or civilly under federal law. Entry of this Amended Order does not relieve Respondent of the need to comply with applicable federal, state, or local laws, rules, or ordinances.

27. The Department hereby expressly reserves the right to initiate appropriate legal

action to address any violations of statutes or rules administered by the Department that are not specifically resolved by this Amended Order.

28. Respondent is fully aware that a violation of the terms of this Amended_Order may subject Respondent to judicial imposition of damages, civil penalties up to \$10,000.00 per day per violation, and criminal penalties.

29. Respondent acknowledges and waives its right to an administrative hearing pursuant to sections 120.569 and 120.57, F.S., on the terms of this Order other than a dispute as described in paragraph 6(l). Respondent also acknowledges and waives its right to appeal the terms of this Order pursuant to section 120.68, F.S.

30. Electronic signatures or other versions of the parties' signatures, such as .pdf or facsimile, shall be valid and have the same force and effect as originals. No modifications of the terms of this Order will be effective until reduced to writing, executed by both Respondent and the Department, and filed with the clerk of the Department.

31. The terms and conditions set forth in this Amended_Order may be enforced in a court of competent jurisdiction pursuant to sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Order constitutes a violation of section 403.161(1)(b), F.S.

32. This Amended Order is a final order of the Department pursuant to section 120.52(7), F.S., and it is final and effective on the date filed with the Clerk of the Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S. Upon the timely filing of a petition, this Amended Order will not be effective until further order of the Department.

33. Respondent shall publish the following notice in a newspaper of daily circulation in Broward County, Florida. The notice shall be published one time only within 15 days of the effective date of the Amended_Order. Respondent shall provide a certified copy of the published notice to the Department within 10 days of publication.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF CONSENT AGREEMENT

The Department of Environmental Protection ("Department") gives notice of agency action of entering into an Amended Consent Order with the City of Fort Lauderdale, pursuant to

section 120.57(4), Florida Statutes. The Amended Consent Order addresses alleged unpermitted wastewater and effluent discharges from the City's wastewater facilities and associated wastewater collection/transmission systems to State waters, and the implementation plan to minimize further discharges. The Amended Consent Order is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Persons who are not parties to this Amended Consent Order, but whose substantial interests are affected by it, have a right to petition for an administrative hearing under sections 120.569 and 120.57, Florida Statutes. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition concerning this Amended Consent Order means that the Department's final action may be different from the position it has taken in the Amended Consent Order.

The petition for administrative hearing must contain all of the following information:

- a) The OGC Number assigned to this Amended Consent Order;
- b) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding;
- c) An explanation of how the petitioner's substantial interests will be affected by the Amended Consent Order;
- d) A statement of when and how the petitioner received notice of the Amended Consent Order;
- e) Either a statement of all material facts disputed by the petitioner or a statement that the petitioner does not dispute any material facts;
- f) A statement of the specific facts the petitioner contends warrant reversal or modification of the Amended Consent Order.
- g) A statement of the rules or statutes the petitioner contends require reversal or modification of the Amended Consent Order; and
- h) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Amended Consent Order.

The petition must be filed (received) at the Department's Office of General Counsel, 3900

Commonwealth Boulevard, MS# 35, Tallahassee, Florida 32399-3000 within 21 days of receipt of this notice. A copy of the petition must also be mailed at the time of filing to the District Office at Florida Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926. Failure to file a petition within the 21-day period constitutes a person's waiver of the right to request an administrative hearing and to participate as a party to this proceeding under sections 120.569 and 120.57, Florida Statutes. Before the deadline for filing a petition, a person whose substantial interests are affected by this Amended Consent Order may choose to pursue mediation as an alternative remedy under section 120.573, Florida Statutes. Choosing mediation will not adversely affect such person's right to request an administrative hearing if mediation does not result in a settlement. Additional information about mediation is provided in section 120.573, Florida Statutes and Rule 62-110.106(12), Florida Administrative Code.

34. Rules referenced in this Order are available at:

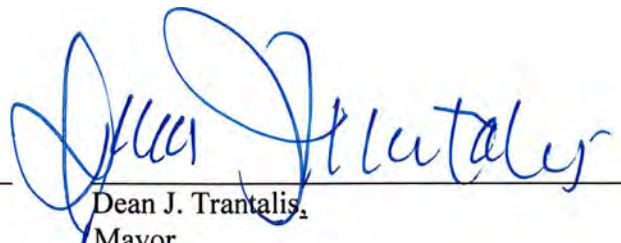
<https://floridadep.gov/ogc/ogc/content/rules>.

CITY OF FORT LAUDERDALE
ATTEST:

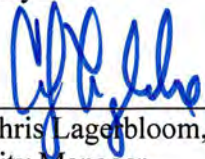


Jeffrey A. Modarelli, City Clerk
City Clerk

(SEAL)



Dean J. Trantalis,
Mayor



Chris Lagerbloom,
City Manager


Approved as to Legal Form



Alain E. Boileau,
City Attorney

DONE AND ORDERED this 12th day of October, 2020, in Orange County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Jason Andreotta
District Director
Southeast District

Filed, on this date, pursuant to section 120.52, F.S., with the designated Department Clerk,
receipt of which is hereby acknowledged.



Clerk

October 12, 2020

Date

Copies furnished to:
Lea Crandall, Agency Clerk

Mail Station 35

EXHIBIT A
Phase I Projects

Project #	Phase I Project Name	Description	Preliminary Cost Estimate
454-P12124.454-6599	Central Beach Alliance PSD41	Replace pump station #PSD41	\$2,200,000
454-P12202.454-6599	Pump Station D-11	Flow analysis & design for pump station rehabilitation	\$500,000
454-P12133.454-6599	Pump Station A-13	Redirect E of F for pump station A-13	\$2,100,000
454-P11879.454-6599	Pump Station A-10	Rehabilitate pump station A-10	\$1,500,000
454-P11881.454-6599	Pump Station D-45	Replace pump station D-45	\$525,000
Preliminary Cost Estimate for Phase I Projects listed here			\$6,825,000

EXHIBIT B
Phase I Projects

Project #	Phase I Project Name	Description	Preliminary Cost Estimate
454-P11563.454-6599	Victoria Park Sewer Basin A-19	Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow	\$5,352,000
454-P11566.454-6599	Rio Vista Sewer Basin D-43	Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow	\$2,960,000
454-P11991.454-6599	Downtown Pump Station A-7	Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow	\$8,224,000
454-P12049.454-6599	Flagler Heights Sewer Basin A-21	Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow	\$883,000
454-P12055.454-6599	Sewer Basin A-18	Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow	\$4,198,000
454-P12001.454-6599	Sewer Basin D-40	Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow	\$100,000
Preliminary Cost Estimate for Phase I Projects listed here			\$21,717,000

EXHIBIT C
Phase II Projects

Phase II Project Name	Description	Preliminary Cost Estimate*
NE 25 th Ave. 24" Force Main	Replace or rehabilitate approx. 5,500 feet of RCP force main along NE 25 th Ave.	\$6,387,000
NE 38 th St & NE 19 th Street 42" Force Main	Replace or rehabilitate approx. 8,000 feet of DIP force main along NE 38 th Street, and install 3,000 feet of new 24" force main along NE 19 th Street	\$9,326,000
NW 5 th St., NW 9 th Ave., & W. Sistrunk Blvd. 30" Force Main	Replace or rehabilitate approx. 12,000 feet of CIP force main along NW 5 th St. & NW 9 th Ave., and install 6,000 feet of new 24" force main along Sistrunk Blvd.	\$11,769,000
Redundant Sewer Force Main South	Install 15,000 feet of new redundant 54-inch force main from approx. 900 feet south of the intersection of East Sunrise Blvd. and NE 15 th Ave. to the intersection of SE 10 th Ave. and SE 18 th St.	\$36,059,000
Rehabilitation of 48/54-Inch Force Main Replacement on SE 9 th and 10 th Avenues to GTL	Rehabilitation or replacement of approx. 19,400 feet of the existing 48-inch to 54-inch force main along SE 9 th and 10 th Avenues to GTL WWTP.	\$23,050,000
Treatment Plant to Injection Wells Effluent Force Main	Replace or rehabilitate the PCCP effluent force main leading from the G.T. Lohmeyer facility to the deep injection wells	\$3,142,000
NW 13 th Ave. 24" Force Main	Replace or rehabilitate approx. 3,300 feet of CIP force main along NW 13 th Ave.	\$1,914,000
NE 9 th St. to Birch Rd River Crossing 18" Force Main	Replace or rehabilitate approx. 1,000 feet of DIP force main river crossing from NE 9 th Street to Birch Road	\$434,000
Preliminary Cost Estimate for Phase II Projects listed here*		\$57,628,000 \$92,081,000

* Preliminary costs assume complete replacement. The Force Main Assessment will determine work to be done on each project.

EXHIBIT D
In-Kind Projects for In-Kind One

A. Within sixty (60) days of the effective date, the City shall submit, by certified mail, a detailed in-kind project proposal to the Department for evaluation. The proposal shall include a summary of benefits, proposed schedule for implementation and documentation of the estimated costs which are expected to be incurred to complete the project. These costs shall not include those incurred in developing the proposal or obtaining approval from the Department for the in-kind project.

B. If the Department requests additional information or clarification due to a partially incomplete in-kind project proposal or requests modifications due to deficiencies with Department guidelines, The City shall submit, by certified mail, all requested additional information, clarification, and modifications within fifteen (15) days of receipts of written notice.

C. If upon review of the in-kind project proposal, the Department determines that the project cannot be accepted due to a substantially incomplete proposal or due to substantial deficiencies with minimum Department guidelines; The City shall be notified, in writing, of the reason(s) which prevent the acceptance of the proposal. The City shall correct and redress all of the matters at issue and submit, by certified mail, a new proposal within thirty (30) days of receipt of written notice. In the event that the revised proposal is not approved by the Department, The City shall make cash payment of the civil penalties as set forth in Paragraph 15 of this Amended Order, within thirty (30) days of Department notice.

D. Within one-hundred twenty (120) days of the Effective Date, the City shall obtain approval for an in-kind project from the Department. If an in-kind project proposal is not approved by the Department within one-hundred twenty (120) days of the Effective Date, then The City shall make cash payment of the civil penalties as set forth in Paragraph 15 of this Amended Order, within thirty (30) days of Department notice.

E. Within one-hundred eighty (180) days of obtaining Department approval for the in-kind proposal or in accordance with the approved schedule submitted pursuant to Paragraph A above, The City shall complete the entire in-kind project.

F. During the implementation of the in-kind project, The City shall place appropriate sign(s) at the project site indicating that The City's involvement with the project is the result of a

Department enforcement action. The City may remove the sign(s) after the project has been completed. However, after the project has been completed the City shall not post any sign(s) at the site indicating that the reason for the project was anything other than a Department enforcement action.

G. In the event the City fails to timely submit any requested information to the Department, fails to complete implementation of the in-kind project or otherwise fails to comply with any provision of this paragraph, the in-kind penalty project option shall be forfeited and the entire amount of civil penalties shall be due from the City to the Department within thirty (30) days of Department notice. If the in-kind penalty project is terminated and The City timely remits the \$334,577.00 penalty, no additional penalties shall be assessed under Paragraph 15 of this Amended Order for failure to complete the requirement of this paragraph.

H. Within fifteen (15) days of completing the in-kind project, the City shall notify the Department, by certified mail, of the project completion and request a verification letter from the Department. The City shall submit supporting information verifying that the project was completed in accordance with the approved proposal and documentation showing the actual costs incurred to complete the project. These costs shall not include those incurred in developing the proposal or obtaining approval from the Department for the project.

I. If upon review of the notification of completion, the Department determines that the project cannot be accepted due to a substantially incomplete notification of completion or due to substantial deviations from the approved in-kind project, The City shall be notified, in writing, of the reason(s) which prevent the acceptance of the project. The City shall correct and redress all of the matters at issue and submit, by certified mail, a new notification of completion within fifteen (15) days of receipt of the Department's notice. If upon review of the new submittal, the Department determines that the in-kind project is still incomplete or not in accordance with the approved proposal, the in-kind penalty project option shall be forfeited, and the entire amount of civil penalty shall be due from the City to the Department within thirty (30) days of Department notice. If the in-kind penalty project is terminated and the City timely remits the \$334,577.00, no additional penalties shall be assessed under Paragraph 15 of this Amended Order for failure to complete the requirements of this paragraph.

EXHIBIT E
In-Kind Projects for In-Kind Two

I. Introduction

Proposal

a. Within 60 days of the effective date of the Amended Order, Respondent shall submit, by certified mail, a detailed in-kind project proposal to the Department for evaluation. The proposal shall include a summary of benefits, proposed schedule for implementation and documentation of the estimated costs which are expected to be incurred to complete the project. These costs shall not include those incurred in developing the proposal or obtaining approval from the Department for the in-kind project.

Proposal Certification Form

b. On the anniversary date of the Department's approval of the in-kind project proposal, for the term of this Consent Order or the term of the Respondent's permit, whichever is longer, the Respondent shall annually submit to the Department a Certification by notarized affidavit from a senior management official for the City of Fort Lauderdale who shall testify as follows:

Annual Certification Form

My name is _____ (print or type name of senior management official) and do hereby testify under penalty of law that:

A. I am a person with management responsibilities for the City of Fort Lauderdale budget and finances. During the twelve-month period immediately preceding the notary date on this Certification, there has not been any transfer or use of funds obtained by the City of Fort Lauderdale from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System.

B. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowingly submitting false information in this certification.

Sworn to and subscribed before me, by means of ☐ physical presence or ☐ online
notarization, this ____ day of _____, 20__ by

Personally, known or by Production of the following Identification _____

Notary Public, State of Florida

Printed/typed or stamped name:

My Commission Expires:

Commission/Serial No.:

c. If the Department requests additional information or clarification due to a partially incomplete in-kind project proposal or requests modifications due to deficiencies with Department guidelines, Respondent shall submit, by certified mail, all requested additional information, clarification, and modifications within 15 days of receipts of written notice.

d. If upon review of the in-kind project proposal, the Department determines that the project cannot be accepted due to a substantially incomplete proposal or due to substantial deficiencies with minimum Department guidelines; Respondent shall be notified, in writing, of the reason(s) which prevent the acceptance of the proposal. Respondent shall correct and redress all the matters at issue and submit, by certified mail, a new proposal within 30 days of receipt of written notice. In the event that the revised proposal is not approved by the Department, Respondent shall make cash payment of the civil penalties as set forth in paragraph 17 above, within 30 days of Department notice.

e. Within 120 days of the effective date of the Amended Order, or, of the Department's notification that applying stipulated penalties to an in-kind project is acceptable Respondent shall obtain approval for an in-kind project from the Department. If an in-kind project proposal is not approved by the Department within 120 days of the effective date of this Amended Order, then Respondent shall make cash payment of the civil penalties as set forth in paragraph 17 of this Amended Order, within 30 days of Department notice.

f. Within 180 days of obtaining Department approval for the in-kind proposal or in accordance with the approved schedule submitted pursuant to paragraph 2(a) above, Respondent shall complete the entire in-kind project.

g. During the implementation of the in-kind project, Respondent shall place appropriate sign(s) at the project site indicating that Respondent's involvement with the project is the result of a Department enforcement action. Respondent may remove the sign(s) after the project has been completed. However, after the project has been completed Respondent shall not post any sign(s) at the site indicating that the reason for the project was anything other than a Department enforcement action.

h. In the event, Respondent fails to timely submit any requested information to the Department, fails to complete implementation of the in-kind project or otherwise fails to comply with any provision of this paragraph, the in-kind penalty project option shall be forfeited, and the entire amount of civil penalties shall be due from the Respondent to the Department within 30 days of Department notice. If the in-kind penalty project is terminated and Respondent timely remits the \$2,111,500 penalty, no additional penalties shall be assessed under paragraph 17 for failure to complete the requirement of this paragraph.

i. Within 15 days of completing the in-kind project, Respondent shall notify the Department, by certified mail, of the project completion and request a verification letter from the Department. Respondent shall submit supporting information verifying that the project was completed in accordance with the approved proposal and documentation showing the actual costs incurred to complete the project. These costs shall not include those incurred in developing the proposal or obtaining approval from the Department for the project.

j. If upon review of the notification of completion, the Department determines that the project cannot be accepted due to a substantially incomplete notification of completion or due to substantial deviations from the approved in-kind project; Respondent shall be notified, in writing, of the reason(s) which prevent the acceptance of the project. Respondent shall correct and redress all the matters at issue and submit, by certified mail, a new notification of completion within 15 days of receipt of the Department's notice. If upon review of the new submittal, the Department determines that the in-kind project is still incomplete or not in accordance with the approved proposal, the in-kind penalty project option shall be forfeited, and the entire amount of civil penalty shall be due from the Respondent to the Department within 30 days of Department

notice. If the in-kind penalty project is terminated and Respondent timely remits the \$ 2,111,500, no additional penalties shall be assessed under paragraph 17 for failure to complete the requirements of this paragraph.

EXHIBIT F
In-Kind One



November 22, 2017

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Consent Order OGC No. 16-1487 In-Kind Project Proposal

On September 29th, 2017, we received the fully executed Consent Order for OGC File 16-1487 which outlines the City's obligations within the order. Paragraph 13 and Exhibit D allows for implementation of an in-kind project, with a value of at least \$501,865.50, in lieu of making cash payment for civil penalties. This project must be an environmental enhancement, environmental restoration, or a capital/facility improvement project.

The City proposes to construct a new pressurized force main that will connect Pump Station D-37 on Lido Drive to a newly installed subaqueous force main that crosses the Intracoastal Waterway. When complete, this enhancement will provide the ability to convey wastewater between the large diameter transmission force mains on both sides of the IntraCoastal Waterway in order to deliver it to the George T. Lohmeyer Wastewater Treatment Plant. The ability to redirect flows from the Las Olas Isles area to the easternmost transmission force main on the barrier island will allow better balancing of flows throughout the system and reduce risk from excessive flow/pressure in the central portion of the City. Furthermore, it provides the ability to take several large diameter force mains out of service for maintenance/rehabilitation efforts without impacting overall operations.

The project includes installation of approximately 3,100 linear feet of 16-inch force main under Las Olas Boulevard from Pump Station D-37 to the Intracoastal Waterway, as well as connecting Pump Station D-38 to the new HDPE line and the rehabilitation/upgrading of the station's wet well, electrical panels, and pumps.

New Project: Installation of New 3,100 LF of 16-inch HDPE, D-9 Force Main from Pump Station D-37 to the Intracoastal Waterway, and modification of PS D-38. (Attached Map Exhibit 1)

Background:

The Las Olas Isles section of the City includes 26 smaller pump stations that collect gravity flows from the Las Olas Isles area and connect the flows to Pump Station D-37. The flows are then routed west toward the downtown area and ultimately, to a 48-inch





diameter sewer transmission main and the George T. Lohmeyer Wastewater Treatment Plant (GTL).

Historical records show that the Las Olas Isles sewer system (basin) is operating at maximum capacity. The collection system is a gravity pipe that consists mostly of vitrified clay pipes that are highly susceptible to Inflow and Infiltration (I/I). This has been exacerbated by king tides, and rain stormwater inducing water into the manholes and pumping stations, and causing manhole covers to overflow. The following characteristics apply to Las Olas Isles:

- High Inflow and Infiltration (I/I) due to king tides
- High Inflow and Infiltration (I/I) due to stormwater events (rain)
- High ground water (hence more Inflow and Infiltration (I/I) into the system)
- Older gravity collection system (vitrified clay pipes)
- Longer run times in pumping stations
- Intensive multi-story residential development (Isle of Venice and Hendricks Isle)
- Increased demand on the system

With all wastewater flow from the Las Olas Isles currently directed west toward the Downtown area, it presents many different challenges. The Downtown area is experiencing tremendous growth, with more than 40 high rise projects in the Downtown and Flagler Village. Based on economic studies, the City expects further growth and development along the Andrews Avenue corridor as well as the Federal Highway corridor from Broward Boulevard to Sunrise Boulevard. This development will increase sewage flows into all pumping stations and force mains in these areas. A new pump station, A-13 (capacity about 1.0 MGD) is under construction and will support several of these high rise developments.

This In-kind project will allow rerouting of flows from the Las Olas Isles toward the barrier island and ultimately to GTL, as well as providing a secondary path for flows from the downtown area.

Project Benefits. The following are tangible benefits from the proposed project:

- Provides redundancy to the older sewer system at Las Olas Isles basin
- Redirects flow easterly to the 24-inch sewer main at the barrier island with reduced flows in the Downtown area
- Reduces pump run times at 26 pump stations with reduced risk SSOs in the Las Olas Isles area
- Prevent manholes overflow (bubbling) along East Las Olas boulevard
- Accommodates added flows from increased high tide Inflow and Infiltration (I/I)
- Accommodates added flows due to stormwater (rain)
- Provide the sewer system in the Downtown area with added capacity, to accommodate new demands and real estate developments
- Reduce flows on the 48-inch sewer main transmission line to GTL

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- Reduce pump run times in the Downtown areas, including A-7 and A-13 (under construction)
- Provides a back-up redundant method to reroute flows during major pipe breaks

Project Definition/Scope of Work (SOW): This project involves installation of approximately 3,100 linear feet of 16-inch diameter HDPE DR-9 force main, including two valves under the Las Olas Bridge, to connect Pump Station D-37 to the Intracoastal Waterway. The scope also include connecting Pump Station D-38 to the new HDPE line and the rehabilitation/upgrading of the station's wet well, increasing pump sizes, and electrical panels. The benefit of the D-38 work would be to remove approximately 1,200 gallons per minute of peak flow from the overloaded East Las Olas gravity trunk line, which would prevent any future sanitary sewer overflows at the Seven Isles and Nurmi manholes, both of which have a long history of overflows and concerns from FDEP and Broward County.

- All pipe sections: 16-inch diameter HDPE DR-9 sewer pipe and fittings
- Associated flow control valves - one at D-37 and one at ICW
- Construction Method: Directional Drilling or Pipe Bursting
- Associated air release valves
- Associated manholes and covering
- All work shall be done by insured contractors, with bonding
- All design work shall be done with board licensed/registered professionals.

Project Schedule: This project shall be fast tracked to ensure quick completion. This may be accomplished via the Design/Build method utilizing directional drilling technologies. The estimated completion date for the In-Kind Project is April 17, 2020. (See Exhibit 2-Schedule)

Construction - "Directional Drilling method": To expedite construction and minimize the impact and disruption of an "open cut" construction method along East Las Olas Boulevard, it is recommended that this pipe be installed via the directional drilling method, utilizing High Density Polyethylene (HDPE) pipe inserts. HDPE has to be fusion welded on site, and must be capable of sustaining the design pressure for the flow.

Project Finances and Estimated Costs:

- This project is not included in the current Capital Improvement Program (FY2018 – FY2023)
- This project construction costs are to be financed through the Consent Order and a Year 2018 Bond Issue.
- The costs for installation of 3,100 LF of 30-inch HDPE force main and modification of Pump Station D-38, is about \$3.0 million (See Attached Exhibit 3 - Opinion of Probable Costs)

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The City believes this capital improvement project will substantially improve the reliability and flexibility of the system to adjust wastewater flows and we recommend that this project proposal is considered as the In-kind requirement for the Consent Order. We kindly seek your approval to proceed with fast tracked design and construction.

Attachment:

- Exhibit 1 (Phase II Map)
- Exhibit 2 (Schedule)
- Exhibit 3 (Opinion of Probable Costs)

Paul Berg
Public Works Director
City of Fort Lauderdale

cc: Lee Feldman, City Manager
Christopher Lagerbloom, Assistant City Manager
Alan Dodd, P.E., Deputy Public Works Director
Talal Abi-Karam, P.E., Assistant Public Works Director
Rhonda M Hasan, Assistant City Attorney
Michael Bechtold, Florida Department of Environmental Protection
Konstantin Dubov, Florida Department of Environmental Protection

PUBLIC WORKS DEPARTMENT

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Notes:
New for
This will
The total

Date: 10/12/2017, A:\ArcGIS_Maps\104_maps\LasOlasNewForceMain.mxd

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	alf	1st Half	2nd Half	1st Half	2nd Half	1st Half	1st Half
1	Design and Permitting	240 days	Mon 1/1/18	Fri 11/30/18			Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
2	Bidding and Contract Award	120 days	Mon 12/3/18	Fri 5/17/19	1								
3	Construction	240 days	Mon 5/20/19	Fri 4/17/20	2								

Project: Las Olas Force Main and PS I

Date: Wed 11/22/17

Task

Split

Progress

Milestone

Summary

Project Summary

External Tasks

External Milestone

Deadline

Page 1

Phase II Las Olas Force Main Replacement and Modification to PS D-38 (In-Kind Project)					
Item no.	Description of Item	Unit Qty.	Unit	Cost Per Unit.	Total cost of Item
Project 3: 3100 LF of 16" HDPE DR-9 FM and Pump Station D-38 Rehabilitation					
1	General Conditions/ Mobilization and Demobilization	1	LS	\$ 65,000.00	\$65,000.00
2	Maintenance of Traffic (MOT)	1	LS	\$ 100,000.00	\$100,000.00
3	Erosion Control	1	LS	\$ 25,000.00	\$25,000.00
4	Engineering Design, Survey and Permitting	1	LS	\$ 350,000.00	\$350,000.00
5	16" Control Valves	2	EA	\$ 35,000.00	\$70,000.00
6	Permitting Allowances	1	AL	\$ 75,000.00	\$75,000.00
7	Directional Drill - 16" FM HDPE	3100	LF	\$ 350.00	\$1,085,000.00
8	Furnish HDPE Pipe - 16" FM	3100	LF	\$ 125.00	\$387,500.00
9	Open-Cut Installation	200	LF	\$ 600.00	\$120,000.00
10	Connection to Existing Force Main	2	EA	\$ 11,750.00	\$23,500.00
11	FM Fittings	1	LS	\$ 50,000.00	\$50,000.00
12	Pavement Restoration and Appurtenances	1	LS	\$ 150,000.00	\$150,000.00
13	D-38 Wet Well Rehabilitation	1	LS	\$ 40,000.00	\$40,000.00
14	D-38 Motor Upgrades	1	LS	\$ 100,000.00	\$100,000.00
15	D-38 Electrical Panel Upgrades	1	LS	\$ 35,000.00	\$35,000.00
15	D-38 Permitting, Design and Modelling Services	1	LS	\$ 50,000.00	\$50,000.00
Project Subtotal:					\$2,726,000.00
Contingencies (10%):					\$272,600.00
<u>Project Total:</u>					<u>\$2,998,600.00</u>

Appendix B: Submittal Documentation

List of Submittal Documentation

- B.1 OGC 16-1487 City of Fort Lauderdale – 2020 Semi-Annual Report No. 2
- B.2 OGC 16-1487 City of Fort Lauderdale – Amended Corrective Actions Cost Update
- B.3 OGC 16-1487 City of Fort Lauderdale – Water Quality Assessment Reports
- B.4 OGC 16-1487 City of Fort Lauderdale – AM and CMOM Programs and Schedules - Para 6(k) and 6(l)
- B.5 OGC 16-1487 City of Fort Lauderdale – Notification of Final Completion 6(e) & 6(h) FM Upsize Project
- B.6 OGC 16-1487 City of Fort Lauderdale – Notification of Completion 6(q) Temporary Emergency Generator at the G.T. Lohmeyer Wastewater Treatment Plant (WWTP) Project

B.1 OGC 16-1487 City of Fort Lauderdale – 2020 Semi-Annual Report No. 2



January 29, 2021

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Amended Consent Order OGC No. 16-1487
2020 Semi-Annual Report No. 2 (July 1, 2020 through December 31, 2020)

The City of Fort Lauderdale (City) has completed and is submitting the 2020 Semi-Annual Report No. 2 (2020 SAR 2; electronic version) for the period ending December 31, 2020, as required in Amended Consent Order (CO) OGC No. 16-1487, Paragraphs 6(o) and 6(p).

Paragraph 6(o) requires the City to submit a written status report on progress of projects being completed under the Amended CO to the Florida Department of Environmental Protection (FDEP) every 6 calendar months. Requirements for this report include documentation of the: 1) status of compliance or noncompliance with the applicable requirements of the Amended Consent Order, 2) status of each of the Phase I and Phase II projects, and 3) projection of the work the City will perform pursuant to the Consent Order during the following 12-month period. Paragraph 6(p) requires the City to submit progress reports to FDEP on or before July 31, for the period from January 1 to June 30, and on or before January 31, for the period July 1 to December 31 each year.

Should you have any questions, or require greater details, please contact Francisco Rios, Acting Senior Project Manager, at FRios@fortlauderdale.gov or 954-828- 5807.

Raj Verma
Director - Public Works
City of Fort Lauderdale

Patricia A. Carney, P.E.
Program Manager
Hazen and Sawyer

cc: Michael Bechtold, Florida Department of Environmental Protection
Zara Mansoor, Florida Department of Environmental Protection
Chris Lagerbloom, City Manager
Tarlesha Smith, Assistant City Manager / HR Director

PUBLIC WORKS DEPARTMENT

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Rhonda M. Hasan, Assistant City Attorney
Aneisha Daniel, Deputy Director - Public Works
Dr. Nancy Gassman, Assistant Public Works Director - Sustainability
Talal Abi-Karam, Assistant Public Works Director - Utilities
Victor Carosi, Assistant Public Works Director - Engineering
Omar Castellon, Chief Engineer
Francisco Rios, Acting Senior Project Manager

From: Mansoor, Zara <Zara.Mansoor@FloridaDEP.gov>
Sent: Tuesday, February 2, 2021 8:54 AM
To: Francisco Rios
Cc: Bechtold, Mike; Chris Lagerbloom; Rhonda M Hasan; Raj Verma; Aneisha Daniel; Nancy Gassman; Talal Abi-Karam; Omar Castellon; Carney, Patricia A; Castro, Orlando J; Tarlesha Smith; Victor Carosi; Al-Omari, Khamis A.
Subject: RE: OGC 16-1487 COFL Amended Consent Order - 2020 Semi-Annual Report No. 2

Caution! *External email – think before you click*

Good morning, Francisco,

The Department is in receipt of the provided reports. Thank you for a timely submittal. I will reach out if there are any questions.

Thank you,



Zara Mansoor

Environmental Specialist I

Florida Department of Environmental Protection

Southeast District – West Palm Beach

3301 Gun Club Road, MSC 7210-1

West Palm Beach, FL 33406

Zara.Mansoor@FloridaDEP.gov

Office: 561.681.6659

From: Francisco Rios <FRios@fortlauderdale.gov>
Sent: Friday, January 29, 2021 2:20 PM
To: SED.Wastewater <SED.Wastewater@dep.state.fl.us>
Cc: Mansoor, Zara <Zara.Mansoor@FloridaDEP.gov>; Bechtold, Mike <Mike.Bechtold@FloridaDEP.gov>; Chris Lagerbloom <CLagerbloom@fortlauderdale.gov>; Rhonda M Hasan <RHasan@fortlauderdale.gov>; Raj Verma <RVerma@fortlauderdale.gov>; Aneisha Daniel <ADaniel@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>; Talal Abi-Karam <TAbi-Karam@fortlauderdale.gov>; Omar Castellon <OCastellon@fortlauderdale.gov>; Carney, Patricia A (pcarney@hazenandsawyer.com) <pcarney@hazenandsawyer.com>; Castro, Orlando J (ocastro@hazenandsawyer.com) <ocastro@hazenandsawyer.com>; Tarlesha Smith <TaSmith@fortlauderdale.gov>; Victor Carosi <VCarosi@fortlauderdale.gov>; Al-Omari, Khamis A. (kalomari@hazenandsawyer.com) <kalomari@hazenandsawyer.com>
Subject: OGC 16-1487 COFL Amended Consent Order - 2020 Semi-Annual Report No. 2

Good afternoon:

Pursuant to Section 6(p) of the Amended Consent Order, please see attached 2020 Semi-Annual Report No. 2 along with the cover letter. This progress report covers the period starting on July 1, 2020 through December 31, 2020.

Please let me know if you have any questions or require additional information. I would greatly appreciate your confirmation on the receipt of this email and report.

Thank you,

Francisco Ríos, P.E.

Acting Senior Project Manager
City of Fort Lauderdale
Public Works Engineering
101 NE 3rd Avenue - Suite 1420
Fort Lauderdale, FL 33301
Office: 954-828-5807 | Fax: 954-828-5074
Email: FRios@fortlauderdale.gov



B.2 OGC 16-1487 City of Fort Lauderdale – Amended Corrective Actions Cost Update



April 9, 2021

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Amended Consent Order OGC No. 16-1487
Amended Corrective Actions Cost Update for Paragraphs 6(q), 6(r) and 6(s)

The City of Fort Lauderdale has completed and is submitting the Amended Corrective Actions Cost Update, an estimate of the total cost of corrective actions in Paragraphs 6(q) through 6(s), as required by the Amended Consent Order (CO) OGC No. 16-1487, Paragraph 11.

Paragraph 11 of the Amended CO requires that the City provides FDEP an updated written estimate of the total cost of the corrective actions in Subparagraphs 6(q) through 6(s) within 180 days of the effective date of the Amended Consent Order, or by April 10, 2021. The attached Amended Corrective Actions Cost Update, being submitted on or before April 10, 2021, fulfills the requirements of Paragraph 11 of the Amended Consent Order.

Should you have any questions, or require greater details, please contact Brandy Leighton, Senior Project Manager, at BLEighton@fortlauderdale.gov or 954-828-5326.

Raj Verma
Director - Public Works
City of Fort Lauderdale

Patricia A. Carney, P.E.
Program Manager
Hazen and Sawyer

cc: Michael Bechtold, Florida Department of Environmental Protection
Lisa M. Self, Florida Department of Environmental Protection
Bridgette Bucell, Florida Department of Environmental Protection
Chris Lagerbloom, City Manager
Tarlesha Smith, Assistant City Manager / HR Director
Rhonda M. Hasan, Assistant City Attorney
Aneisha Daniel, Deputy Director - Public Works
Dr. Nancy Gassman, Assistant Public Works Director - Sustainability

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Talal Abi-Karam, Assistant Public Works Director - Utilities
Victor Carosi, Assistant Public Works Director - Engineering
Brandy Leighton, Senior Project Manager

From: Brandy Leighton <BLEighton@fortlauderdale.gov>

Sent: Friday, April 9, 2021 5:31 PM

To: sed.wastewater@dep.state.fl.us

Cc: Mike Bechtold (Mike.Bechtold@floridadep.gov) <Mike.Bechtold@floridadep.gov>; Lisa M. Self (Lisa.M.Self@floridadep.gov) <lisa.m.self@floridadep.gov>; Bridjette.Bucell@floridadep.gov; Chris Lagerbloom <CLagerbloom@fortlauderdale.gov>; Tarlesha Smith <TaSmith@fortlauderdale.gov>; Rhonda M Hasan <RHasan@fortlauderdale.gov>; Aneisha Daniel <ADaniel@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>; Talal Abi-Karam <TAbi-Karam@fortlauderdale.gov>; Victor Carosi <VCarosi@fortlauderdale.gov>; Raj Verma <RVerma@fortlauderdale.gov>; Carney, Patricia A <pcarney@hazenandsawyer.com>

Subject: OGC 16-1487 City of Fort Lauderdale - Amended Corrective Actions Cost Update for Paragraphs 6(q), 6(r), and 6(s)

Caution! External email – think before you click

Good afternoon,

Please see the attached Amended Corrective Actions Cost Update, an estimate of the total cost of corrective actions in Paragraphs 6(q) through 6(s), along with cover letter for OGC File 16-1487. This Update is being submitted prior to April 10, 2021 (which is within 180 days of the effective date of the Consent Order), and fulfills the requirements set forth in Paragraph 11 of the Amended Consent Order. If you have any questions or need greater details, please contact me at 954-828-5326 or bleighton@fortlauderdale.gov.

Thank you,

Brandy Leighton, P.E., PMP 

Senior Project Manager
City of Fort Lauderdale

Public Works | Engineering Services

101 NE 3rd Avenue #1420, Fort Lauderdale, FL 33301

Office: 954-828-5326 | Fax: 954-828-5074

Email: BLEighton@fortlauderdale.gov



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City of Fort Lauderdale employees or officials regarding City business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.



Think **GREEN!** Please do not print this email unless it is necessary.

B.3 OGC 16-1487 City of Fort Lauderdale – Water Quality Assessment Reports



December 28, 2020

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Amended Consent Order OGC No. 16-1487
Environmental Assessment Reports – Tarpon River and George English Lake

Dear Mr. Andreotta:

Pursuant to Section 9 of the Amended Consent Order, we are submitting sealed and signed Water Quality Assessment Reports for Tarpon River and George English Lake. The Consultants are conducting field work related to Himmarshee Canal assessment that will be submitted separately on or before the deadline.

The George English Lake findings, assessment and results were somewhat straightforward because of the confined nature of this water body. Consultants have recommended dredging of mostly sand mixed with inert solids released from the wastewater discharge. This mixture, approximately 600 cubic yards in volume, has been calculated to be deposited around the point of discharge. The City has successfully secured the permits from the regulatory agencies and is ready to begin the work upon approval of this Report.

The Tarpon River findings, assessment and results were not as conclusive due to the tidal and flushing nature of this waterbody. Several investigations, some repeated, did not yield any evidence that wastewater discharge is contributing to the degradation of water quality. Based on the environmental analysis, the consultants concluded that the remaining solids resulting from the wastewater discharge are not causing or contributing to violations of water quality standards as defined in Florida Administrative Code Rule 62-302. Regardless of this conclusion, the City has determined to remove approximately 1,040 cubic yards of inert sediments deposited in the River bottom. This volume spans over a total canal length of 800 feet, approximately 200 feet beyond the upstream and downstream of the identified impact length of 400 feet. The City has begun the permitting process and intends to start the work in Spring 2021 upon receiving the permits and approval of this Report.



Should you have any questions, or require additional information, please do not hesitate to contact me at RVerma@fortlauderdale.gov or 954-828-5806 or our new Assistant Director of Engineering, Victor Carosi, at VCarosi@fortlauderdale.gov or 954-828-5848.



Raj Verma
Director - Public Works
City of Fort Lauderdale

Raj Verma
Director - Public Works
City of Fort Lauderdale

Attachments via link:

<https://fms.fortlauderdale.gov/?ShareToken=3612D225C7369D0C3998057D8ADA61B3B6D5430C>

- George English Lake Assessment Report by Wood Environment and Infrastructure Solutions, Inc.
- Tarpon River Assessment Report by E-Sciences

Copy: Michael Bechtold, Florida Department of Environmental Protection
Zara Mansoor, Florida Department of Environmental Protection
Chris Lagerbloom, City Manager
Tarlesha Smith, Assistant City Manager / HR Director
Greg Chavarria, Assistant City Manager
Rhonda M. Hasan, Assistant City Attorney
Aneisha Daniel, Deputy Director - Public Works
Talal Abi-Karam, PE, Assistant Public Works Director – Utilities
Nancy Gassman, Assistant Public Works Director - Sustainability
Victor Carosi, PE, Assistant Director - Engineering
Jill Prizlee, Chief Engineer
Omar Castellon, Chief Engineer
Francisco Rios, Acting Senior Project Manager

From: Andreotta, Jason <Jason.Andreotta@FloridaDEP.gov>
Sent: Tuesday, December 29, 2020 8:00 AM
To: Raj Verma
Cc: Aneisha Daniel; Victor Carosi; Talal Abi-Karam; Nancy Gassman; Todd Hiteshew; Mansoor, Zara; Omar Castellon; Francisco Rios
Subject: [-EXTERNAL-] RE: Fort Lauderdale Amended Consent Order OGC No. 16-1487, Assessment Reports - Tarpon River and George English Lake

Thank you, Raj. Happy New Year to you as well.

-----Original Message-----

From: Raj Verma <RVerma@fortlauderdale.gov>
Sent: Monday, December 28, 2020 9:26 PM
To: Andreotta, Jason <Jason.Andreotta@FloridaDEP.gov>
Cc: Aneisha Daniel <ADaniel@fortlauderdale.gov>; Victor Carosi <VCarosi@fortlauderdale.gov>; Talal Abi-Karam <TAbi-Karam@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>; Todd Hiteshew <THiteshew@fortlauderdale.gov>; Mansoor, Zara <Zara.Mansoor@FloridaDEP.gov>; Omar Castellon <OCastellon@fortlauderdale.gov>; Francisco Rios <FRios@fortlauderdale.gov>
Subject: Fort Lauderdale Amended Consent Order OGC No. 16-1487, Assessment Reports - Tarpon River and George English Lake

Hello Jason:

Hope all's well.

Attached is the cover letter that very briefly outlines the findings of the water quality assessment of Tarpon River and George English Lake. Due to the large size of the files, please use this link [<https://fms.fortlauderdale.gov/?ShareToken=3612D225C7369D0C3998057D8ADA61B3B6D5430C>] to access those reports.

At this time, we are providing the reports for Tarpon River and George English Lake only. Himmarshee Canal assessment is ongoing. The City has until April 30, 2021 to submit the Himmarshee assessment report.

Please let us know if you have any questions.

From the City of Fort Lauderdale, wishing everyone a Happy, Healthy and Safe New Year.

Raj Verma
Public Works Director
(954) 828-5806

[Dep Customer Survey]<<http://survey.dep.state.fl.us/?refemail=Jason.Andreotta@FloridaDEP.gov>>

From: Mansoor, Zara <Zara.Mansoor@FloridaDEP.gov>
Sent: Monday, March 8, 2021 3:04 PM
To: Todd Hiteshew; Raj Verma; Francisco Rios
Subject: [-EXTERNAL-] RE: Serv-U File Sharing Link [expires 2/26/2021 12:00:00 AM]

Good afternoon,

The revised reports have been reviewed and approved.

Please reach out with any questions. Have a wonderful day!

Thank you,

Zara Mansoor
Environmental Specialist I
Florida Department of Environmental Protection Southeast District – West Palm Beach
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
Zara.Mansoor@FloridaDEP.gov
Office: (561) 681-6659

-----Original Message-----

From: Todd Hiteshew <THiteshew@fortlauderdale.gov>
Sent: Friday, February 19, 2021 5:09 PM
To: Mansoor, Zara <Zara.Mansoor@FloridaDEP.gov>; rverma@fortlauderdale.gov
Subject: Serv-U File Sharing Link [expires 2/26/2021 12:00:00 AM]

You have received access to a Serv-U File Share from Todd Hiteshew. The link to transfer your file(s) will expire on Friday, February 26, 2021 12:00 AM.

<https://fms.fortlauderdale.gov/?ShareToken=FC7D9BDB4A1E56F0E60C620E2A62CCE0D46FB322>

Hello Zara,

The two revised environmental assessment reports are attached with language based on our discussions. Your assistance was much appreciated! Thank you.

[Dep Customer Survey]<<http://survey.dep.state.fl.us/?refemail=Zara.Mansoor@FloridaDEP.gov>>

From: Mansoor, Zara <Zara.Mansoor@FloridaDEP.gov>
Sent: Monday, March 15, 2021 1:10 PM
To: Todd Hiteshew
Cc: Raj Verma; Nancy Gassman
Subject: [-EXTERNAL-] RE: Amended Consent Order - paragraph 9

Good afternoon, Todd,

It appears that 9.a, 9.b, and 9.d have been satisfied for George English Lake and Tarpon River. We will await the report on the Himmarshee Canal to fully satisfy the conditions of Paragraph 9 in the CO.

If you have any questions, please let me know. Have a wonderful day!

Thank you,



Zara Mansoor
Environmental Specialist I
Florida Department of Environmental Protection
Southeast District – West Palm Beach
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
Zara.Mansoor@FloridaDEP.gov
Office: (561) 681-6659

From: Mansoor, Zara
Sent: Friday, March 12, 2021 3:34 PM
To: Todd Hiteshew <THiteshew@fortlauderdale.gov>
Cc: Raj Verma <RVerma@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>
Subject: RE: Amended Consent Order - paragraph 9

Good afternoon, Todd,

Hope all is well with you too! I believe this is the case, however, I'd like to review the reports once more before giving you this confirmation. I am about to leave the office and don't want to rush to get you this answer so I will have to get back to you about this on Monday.

Have a wonderful weekend!



Zara Mansoor
Environmental Specialist I
Florida Department of Environmental Protection
Southeast District – West Palm Beach
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
Zara.Mansoor@FloridaDEP.gov
Office: (561) 681-6659

From: Todd Hiteshew <THiteshew@fortlauderdale.gov>
Sent: Friday, March 12, 2021 12:24 PM
To: Mansoor, Zara <Zara.Mansoor@FloridaDEP.gov>
Cc: Raj Verma <RVerma@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>
Subject: Amended Consent Order - paragraph 9

Good afternoon Zara,

Hope all is well! I'm hoping to seek some clarification for paragraph 9 of the Amended Consent Order

Paragraph 9 reads:

9.The Respondent shall complete an environmental analysis of George English Lake, the Tarpon River, and Himmarshee Canal ("the Waterways") to assess the potential impacts caused by the December 2019, January 2020 and February 2020 unauthorized discharges.

a.Within 180 days of the effective date of this Amended Order, the Respondent shall provide to the Department an estimate of the amount of solids released from the sewage and an estimate of how much of the released solids remains in the Waterways and of that remaining amount, how much has settled to the bottom of the Waterways.

b.Within 180 days of the effective date of this Amended Order, the Respondent will develop and submit to the Department for approval, a plan to ascertain if the remaining solids in the Waterways are causing or contributing to violations of water quality standards as defined in Florida Administrative Code Rule 62-302 (Water Quality Assessment Plan). Within 90 days after the Department's approval of the Water Quality Assessment Plan, the Respondent will submit a water quality evaluation report (Report) signed and sealed by a Professional Engineer licensed in Florida, in accordance and in compliance with the approved Water Quality Assessment Plan.

c.If the Report concludes that the remaining solids are causing or contributing to water quality standards violations, then, within 90 days of submittal of the Report, the Respondent will submit to the Department for approval, a Corrective Action Plan (CAP). The CAP, if required, shall include a compliance schedule with dates of completion for the deliverables listed in the CAP.

d.If impacts to the Waterways are determined to not have occurred, then, within 90 days of the submittal of the Report, the Respondent shall submit to the Department a surface water enhancement plan providing environmental benefits to the Waterways. The plan shall include a compliance schedule with dates of completion for the deliverables listed in the enhancement plan.

The reports submitted and approved for the Tarpon River and George English satisfies 9.a and 9.b. Since the reports state there do not appear to be any wastewater impacts and sediment removal will be done as a surface water enhancement project as described in the reports and Mr. Verma's December 28, 2020 cover letter (attached) it appears 9.d. has been satisfied as well.

Please let me know if there is concurrence. Thank you and much appreciated.

Todd Hiteshew
Environmental Compliance Manager, Public Works Department
City of Fort Lauderdale
(954) 828-7807
Fax: (954) 828-4745
THiteshew@fortlauderdale.gov





From: Mansoor, Zara <Zara.Mansoor@FloridaDEP.gov>
Sent: Monday, April 12, 2021 10:58 AM
To: Raj Verma; Todd Hiteshew; Nancy Gassman; Brandy Leighton; Talal Abi-Karam; Jason Snifeld; Patricia Jolly
Cc: Bucell, Bridjette; Self, Lisa M.
Subject: [-EXTERNAL-] RE: Fort Lauderdale Amended Consent Order OGC No. 16-1487, Assessment Reports - Tarpon River and George English Lake

Good morning, Raj,

The Department approves the City's request for a deadline extension on the submittal of the Himmarshee Canal assessment report. The deadline has been extended to May 30, 2021.

If you have any questions or concerns, please let us know.

Thank you,



Zara Mansoor
Environmental Specialist I
Florida Department of Environmental Protection
Southeast District – West Palm Beach
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
Zara.Mansoor@FloridaDEP.gov
Office: (561) 681-6659

From: Raj Verma <RVerma@fortlauderdale.gov>
Sent: Friday, April 9, 2021 4:26 PM
To: Andreotta, Jason <Jason.Andreotta@FloridaDEP.gov>
Cc: Self, Lisa M. <Lisa.M.Self@FloridaDEP.gov>
Subject: FW: Fort Lauderdale Amended Consent Order OGC No. 16-1487, Assessment Reports - Tarpon River and George English Lake
Importance: High

Jason:

Sorry, something got messed up in the earlier email. I am resending and copying Lisa Self.

Thanks and have a great weekend!

Raj

From: Raj Verma
Sent: Friday, April 9, 2021 4:16 PM
To: ason.Andreotta@FloridaDEP.gov
Cc: Todd Hiteshew <THiteshew@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>; Brandy Leighton <BLeighton@fortlauderdale.gov>; Victor Carosi <VCarosi@fortlauderdale.gov>; Jason Snifeld

<JSnifeld@fortlauderdale.gov>; Patricia Jolly <PaJolly@fortlauderdale.gov>; Talal Abi-Karam <Tabi-Karam@fortlauderdale.gov>

Subject: FW: Fort Lauderdale Amended Consent Order OGC No. 16-1487, Assessment Reports - Tarpon River and George English Lake

Importance: High

Good afternoon Jason:

We have nearly completed the report on Himmarshee Canal. However, a couple of tests are showing anomalous results. So, we have ordered retesting/sampling. This would ensure that the findings are what they should be. Therefore, we are respectfully requesting an extension until May 30, 2021 to submit the final Himmarshee Canal report.

Please let us know if you have any questions or concerns. Thanks

Raj Verma
(954) 395-3371 (cell)

From: Todd Hiteshew <THiteshew@fortlauderdale.gov>

Sent: Wednesday, April 7, 2021 5:18 PM

To: Raj Verma <RVerma@fortlauderdale.gov>

Subject: FW: Fort Lauderdale Amended Consent Order OGC No. 16-1487, Assessment Reports - Tarpon River and George English Lake

Hello Raj,

I highlighted the April 30th date in the e-mail sent to Jason in December.

Thanks!

Todd



From: Raj Verma <RVerma@fortlauderdale.gov>

Sent: Monday, December 28, 2020 9:26 PM

To: Andreotta, Jason <Jason.Andreotta@FloridaDEP.gov>

Cc: Aneisha Daniel <ADaniel@fortlauderdale.gov>; Victor Carosi <VCarosi@fortlauderdale.gov>; Talal Abi-Karam <Tabi-Karam@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>; Todd Hiteshew <THiteshew@fortlauderdale.gov>; zara.mansoor@floridadep.gov; Omar Castellon <OCastellon@fortlauderdale.gov>; Francisco Rios <FRios@fortlauderdale.gov>

Subject: Fort Lauderdale Amended Consent Order OGC No. 16-1487, Assessment Reports - Tarpon River and George English Lake

Hello Jason:

Hope all's well.

Attached is the cover letter that very briefly outlines the findings of the water quality assessment of Tarpon River and George English Lake. Due to the large size of the files, please use this link [\[https://fms.fortlauderdale.gov/?ShareToken=3612D225C7369D0C3998057D8ADA61B3B6D5430C\]](https://fms.fortlauderdale.gov/?ShareToken=3612D225C7369D0C3998057D8ADA61B3B6D5430C) to access those reports.

At this time, we are providing the reports for Tarpon River and George English Lake only. Himmarshee Canal assessment is ongoing. **The City has until April 30, 2021 to submit the Himmarshee assessment report.**

Please let us know if you have any questions.

From the City of Fort Lauderdale, wishing everyone a Happy, Healthy and Safe New Year.

Raj Verma
Public Works Director
(954) 828-5806





May 29, 2021

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Amended Consent Order OGC No. 16-1487
Environmental Assessment Report – Himmarshee Canal - Paragraph 9(a), 9(b),
9(d)

Dear Mr. Andreotta:

The City of Fort Lauderdale (City) has completed and is submitting the signed and sealed Water Quality Assessment Report for the Himmarshee Canal, as required in Amended Consent Order (CO) OGC No. 16-1487, Paragraphs 9(a, b, d). This report determines the impacts on the water body, provides an estimate of solids released from sewage and identifies the City's proposed surface water enhancement plan. Following is a very brief summary of the findings and conclusions.

Himmarshee Canal is located in a highly urbanized drainage basin. It receives and conveys large amount of stormwater runoff from the downtown Fort Lauderdale area, including major arterials like Federal Highway and Broward Boulevard. Combined with the tidal action, there are several factors that influence the sediment and surface water quality in the Himmarshee Canal.

Fecal coliform was found in the sediment approximately 200 feet west of the point of entry (POE). Based on the spatial distribution and considering that the higher concentration of fecal coliform was found "against the direction of flow," it was concluded that there could be several other localized sources such as nearby construction activities, homeless population congregating in that area, etc. None of these sources are attributable to sewage discharge.

Copper and lead, exceeding the threshold established in FAC 62-302, were also found in the sediments near the POE but not at the POE itself. However, based on the elutriate testing of the sediment and study of spatial distribution, it was determined that these metals did not originate from the sewer discharge because of their absence in the City's wastewater stream. Regulatory agencies have long suspected the historical of presence of heavy metals in the Broward County waterways. These findings confirm this long-held apprehension.

Approximately 16 cubic yards of total suspended solids (TSS) were calculated to have been released. Out of this volume, fixed suspended solids (FSS) between one (1) to four

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(4) cubic yards were estimated to be remaining in the bottom but not causing any water quality damage. The remaining quantity, volatile suspended solids (VSS), being biodegradable, was assumed to be no longer present in the waterway.

Therefore, and based on several investigations and environmental analyses, the consultants concluded that the 2019 sewage discharge in the Himmarshee Canal is neither causing nor contributing to the degradation of water quality standards as defined in FAC 62-302. However, the City has elected on its own to remove sediment within the Himmarshee Canal on either side of the POE. The proposed enhancement area, lying between SE 8th Avenue and SE 10th Terrace for approximately 850 feet, is being considered to be suction dredged at an estimated cost of \$850,000. Once the City receives the approval of this report as submitted, the staff will begin the permitting process with the regulatory agencies. Provided there are no unforeseen changes or conditions, the City estimates the sediment removal work to be completed within 18 months of the acceptance of this Report.

Should you have any questions, or require additional information, please do not hesitate to contact me at RVerma@fortlauderdale.gov or 954-828-5806 or our Senior Project Manager, Brandy Leighton, PE at BLEighton@fortlauderdale.gov or 954-828-5848.



Raj Verma
Director - Public Works
City of Fort Lauderdale

Copy:

Sirena Davila, Florida Department of Environmental Protection
Lisa M. Self, Florida Department of Environmental Protection
Bridjette Bucell, Florida Department of Environmental Protection
Michael Bechtold, Florida Department of Environmental Protection
Chris Lagerbloom, City Manager
Tarlesha Smith, Assistant City Manager / HR Director
Greg Chavarria, Assistant City Manager
Rhonda M. Hasan, Assistant City Attorney
Talal Abi-Karam, PE, Assistant Public Works Director – Utilities
Nancy Gassman, Assistant Public Works Director - Sustainability
Victor Carosi, PE, Assistant Director - Engineering
Omar Castellon, PE, Chief Engineer
Brandy Leighton, PE, Senior Project Manager

Subject: FW: Himmarshee Canal Water Quality Assessment Report - File OGC 1487 - City of Fort Lauderdale

From: Brandy Leighton

Sent: Sunday, May 30, 2021 5:39 PM

To: sed.wastewater@dep.state.fl.us

Subject: Fwd: Himmarshee Canal Water Quality Assessment Report - File OGC 1487 - City of Fort Lauderdale

Begin forwarded message:

From: Raj Verma <RVerma@fortlauderdale.gov>

Date: May 29, 2021 at 11:54:23 PM EDT

To: "Andreotta, Jason" <Jason.Andreotta@FloridaDEP.gov>, "Sirena.Davila@FloridaDEP.gov" <Sirena.Davila@FloridaDEP.gov>

Cc: "Mike.Bechtold@FloridaDEP.gov" <Mike.Bechtold@FloridaDEP.gov>, "Bucell, Bridjette" <Bridjette.Bucell@FloridaDEP.gov>, "Self, Lisa M." <Lisa.M.Self@FloridaDEP.gov>, Chris Lagerbloom <CLagerbloom@fortlauderdale.gov>, Tarlesha Smith <TaSmith@fortlauderdale.gov>, Greg Chavarria <GChavarria@fortlauderdale.gov>, Rhonda M Hasan <RHasan@fortlauderdale.gov>, Talal Abi-Karam <TAbi-Karam@fortlauderdale.gov>, Nancy Gassman <NGassman@fortlauderdale.gov>, Victor Carosi <VCarosi@fortlauderdale.gov>, Omar Castellon <OCastellon@fortlauderdale.gov>, Brandy Leighton <bleighton@fortlauderdale.gov>, Jason Snifeld <JSnifeld@fortlauderdale.gov>, Felicia Ford-Powell <FFord-Powell@fortlauderdale.gov>, Patricia Jolly <PaJolly@fortlauderdale.gov>

Subject: Himmarshee Canal Water Quality Assessment Report - File OGC 1487 - City of Fort Lauderdale

Hello Jason:

Hope all is well.

Attached is the final surface water quality assessment report for Himmarshee Canal, sealed and signed by a professional engineer. Although traces of fecal coliform and copper/lead were found in the sediment, they were not attributable to the 2019 sewer discharge as explained in the report. All testing and analyses have concluded that there is no degradation of surface water quality as defined in FAC 62-302. The report was prepared with same diligence as the other two points of sewer breakage - Tarpon River and George English Park.

Like Tarpon River and George English Lake, the City is considering suction-dredging approximately 850 feet of Himmarshee Canal at an estimated cost of \$850,000.

We thank you and your staff for guidance and working diligently with us.

Please let us know if you have any questions. Thanks

Raj Verma
Public Works Director
954-828-5806

B.4 OGC 16-1487 City of Fort Lauderdale – AM and CMOM Programs and Schedules - Para 6(k) and 6(l)



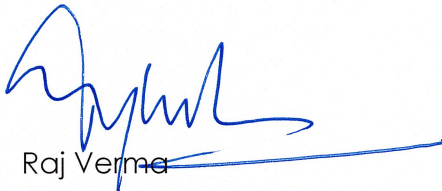
June 4, 2021

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

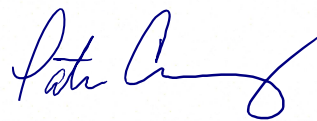
Re: Fort Lauderdale Amended Consent Order OGC No. 16-1487
Amended Consent Order Paragraphs 6(k) and 6(l): Asset Management and
Capacity, Management, Operation and Maintenance Program for the Collection
System and Implementation Schedules – FINAL

This letter and revised submittal are being provided in response to the email from the Florida Department of Environmental Protection (FDEP) dated December 3, 2020 concerning the City of Fort Lauderdale (City) letter dated November 16, 2020. In accordance with the enclosed, referenced communications, the City is submitting a revised (FINAL) report summarizing the Asset Management and Capacity, Management, Operation and Maintenance Programs (AM and CMOM Programs), as required by Consent Order (CO) Paragraph 6(k). Also included within this revised submittal are schedules for the implementation of the AM and CMOM Programs as well as schedules for completion of Phase II force main improvement projects outlined in the Force Main Condition Assessment Report, as required by CO Paragraph 6(l).

Should you have any questions, or require further details concerning this submittal, please contact Brandy Leighton, Senior Project Manager, at BLEighton@fortlauderdale.gov or 954-828-5326.



Raj Verma
Director - Public Works
City of Fort Lauderdale



Patricia A. Carney, P.E.
Program Manager
Hazen and Sawyer

Enclosures:

- Encl. 1 – Email from FDEP dated December 3, 2020
- Encl. 2 – Letter from City dated November 16, 2020
- Encl. 3 – Final AM and CMOM Program

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c: Jason Andreotta, Florida Department of Environmental Protection
Sirena Davila, Florida Department of Environmental Protection
Michael Bechtold, Florida Department of Environmental Protection
Lisa M. Self, Florida Department of Environmental Protection
Bridgette Bucell, Florida Department of Environmental Protection
Chris Lagerbloom, City Manager
Tarlesha Smith, Assistant City Manager / HR Director
Greg Chavarria, Assistant City Manager
Rhonda M. Hasan, Assistant City Attorney
Dr. Nancy Gassman, Assistant Public Works Director - Sustainability
Talal Abi-Karam, Assistant Public Works Director - Utilities
Victor Carosi, Assistant Public Works Director - Engineering
Omar Castellon, Chief Engineer
Brandy Leighton, Senior Project Manager

Subject: OGC 16-1487 City of Fort Lauderdale AM-CMOM Programs and Schedules - Paragraphs 6(k) and 6(l)

From: Brandy Leighton <BLEighton@fortlauderdale.gov>

Sent: Wednesday, June 9, 2021 7:11 PM

To: 'sed.wastewater@dep.state.fl.us' <sed.wastewater@dep.state.fl.us>

Cc: 'Mike Bechtold' (Mike.Bechtold@floridadep.gov) <Mike.Bechtold@floridadep.gov>; Lisa M. Self (Lisa.M.Self@floridadep.gov) <lisa.m.self@floridadep.gov>; 'Bridjette.Bucell@floridadep.gov' <Bridjette.Bucell@floridadep.gov>; Chris Lagerbloom <CLagerbloom@fortlauderdale.gov>; Tarlesha Smith <TaSmith@fortlauderdale.gov>; Rhonda M Hasan <RHasan@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>; Talal Abi-Karam <TAbi-Karam@fortlauderdale.gov>; Victor Carosi <VCarosi@fortlauderdale.gov>; Raj Verma <RVerma@fortlauderdale.gov>; Carney, Patricia A <pcarney@hazenandsawyer.com>; Jason Andreotta (FDEP) <jason.andreotta@floridadep.gov>; Sirena Davila (FDEP) <Sirena.Davila@FloridaDEP.gov>; Greg Chavarria <GChavarria@fortlauderdale.gov>; Omar Castellon <OCastellon@fortlauderdale.gov>

Subject: OGC 16-1487 City of Fort Lauderdale AM-CMOM Programs and Schedules - Paragraphs 6(k) and 6(l)

Caution! *External email – think before you click*

Good afternoon,

Please see the link below to the Final Asset Management and Capacity, Management, Operation and Maintenance (AM and CMOM) Program with cover letter for OGC No. 16-1487. The revised report summarizing the AM and CMOM Programs is being submitted in accordance with Consent Order Paragraph 6(k). Also included within this revised submittal are schedules for the implementation of the AM and CMOM Programs as well as schedules for completion of Phase II force main improvement projects outlined in the Force Main Condition Assessment Report, as required by Consent Order Paragraph 6(l). I would greatly appreciate confirmation of receipt of this email and linked document. If you have any questions or need greater details, please contact me at 954-828-5326 or bleighton@fortlauderdale.gov.

<https://fms.fortlauderdale.gov/?ShareToken=35E69B5DA76F905FF5E95D7A465861A0ADA7304F>

Thank you,

Brandy Leighton, P.E., PMP 

Senior Project Manager
City of Fort Lauderdale

Public Works | Engineering Services

101 NE 3rd Avenue #1420, Fort Lauderdale, FL 33301

Office: 954-828-5326 | Fax: 954-828-5074

Email: BLEighton@fortlauderdale.gov



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City of Fort Lauderdale employees or officials regarding City business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.



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B.5 OGC 16-1487 City of Fort Lauderdale – Notification of Final Completion 6(e) & 6(h) FM Upsize Project



June 29, 2021

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Amended Consent Order OGC No. 16-1487
Notification of Final Completion Letter for Amended Consent Order Paragraph 6(e) and 6(h), Projects Added to Phase II Force Mains per the Force Main Condition Assessment Report – Force Main (From Pump Station D-35 to D-36) Upsize

The purpose of this letter is to notify the Florida Department of Environmental Protection (FDEP) that the City of Fort Lauderdale (City) has reached Final Completion on the *Force Main (From Pump Station D-35 to D-36) Upsize* Project, as required in Amended Consent Order OGC No. 16-1487, Paragraphs 6(e) and 6(h), Projects Added to Phase II Force Mains per the Force Main Condition Assessment Report. Based on this Amended CO requirement, the City is to complete the Phase II Force Main Projects no later than September 30, 2026.

<u>Project</u>	<u>Description</u>	<u>Substantial Completion</u>	<u>Final Completion</u>
Force Main (From Pump Station D-35 to D-36) Upsize	Replace approximately 2,000 feet of 8" and 10" cast-iron pipe on the discharge of Pump Stations D-35 and D-36.	March 5, 2021	May 31, 2021

The project has been cleared for use by Broward County Environmental Protection and Growth Management Department (BCEPGMD) on May 28, 2021, is being beneficially used by the City, and is considered complete.

Should you have any questions, or require greater details, please contact Brandy Leighton, Senior Project Manager, at Bleighton@fortlauderdale.gov or 954-828- 5326.

PUBLIC WORKS DEPARTMENT

100 N ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA 33301
TELEPHONE (954) 828-5772, FAX (954) 828- 5074

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Notification of Final Completion

Amended CO Paragraph 6(e) and 6(h), Force Main (From Pump Station D-35 to D-36) Upsize Project

June 29, 2021

Page 2 of 2



Raj Verma
Director - Public Works
City of Fort Lauderdale



Patricia A. Carney, P.E.
Program Manager
Hazen and Sawyer

c: Jason Andreotta, Florida Department of Environmental Protection
Sirena Davila, Florida Department of Environmental Protection
Michael Bechtold, Florida Department of Environmental Protection
Lisa M. Self, Florida Department of Environmental Protection
Bridjette Bucell, Florida Department of Environmental Protection
Kirsten Kitchens, Florida Department of Environmental Protection
Chris Lagerbloom, City Manager
Tarlesha Smith, Assistant City Manager / HR Director
Greg Chavarria, Assistant City Manager
Rhonda M. Hasan, Assistant City Attorney
Dr. Nancy Gassman, Assistant Public Works Director - Sustainability
Talal Abi-Karam, Assistant Public Works Director - Utilities
Victor Carosi, Assistant Public Works Director - Engineering
Omar Castellon, Chief Engineer
Brandy Leighton, Senior Project Manager

Subject: FW: OGC 16-1487 City of Fort Lauderdale - Notification of Final Completion for CO Paragraphs 6(e) and 6(h) FM Upsize Project
Attachments: OGC 16-1487 COFL Notification of Final Completion 6(e) & 6(h) FM Upsize Project.pdf

From: Brandy Leighton <BLEighton@fortlauderdale.gov>

Sent: Tuesday, June 29, 2021 5:40 PM

To: sed.wastewater@dep.state.fl.us

Cc: Mike Bechtold (Mike.Bechtold@floridadep.gov); 'Lisa M. Self' (Lisa.M.Self@floridadep.gov);

Bridjette.Bucell@floridadep.gov; Chris Lagerbloom; Tarlesha Smith; Rhonda M Hasan; Nancy Gassman; Talal Abi-Karam; Victor Carosi; Raj Verma; Carney, Patricia A; Jason Andreotta (FDEP); Sirena Davila (FDEP); Greg Chavarria; Omar Castellon; Kirsten Kitchens (FDEP)

Subject: OGC 16-1487 City of Fort Lauderdale - Notification of Final Completion for CO Paragraphs 6(e) and 6(h) FM Upsize Project

Caution! *External email – think before you click*

Good afternoon,

Please see the attached Notification of Final Completion Letter for Consent Order Paragraphs 6(e) and 6(h) *Force Main (From Pump Station D-35 to D-36) Upsize* for OGC File 16-1487. This project was previously added to Phase II Force Main projects, per the Force Main Condition Assessment Report recommendations. This Notification is being submitted on or before September 30, 2026 per the Amended Consent Order agreement. I would greatly appreciate confirmation of receipt of this email and attached letter. If you have any questions or need greater details, please contact me at 954-828-5326 or bleighton@fortlauderdale.gov.

Thank you,

Brandy Leighton, P.E., PMP 

Senior Project Manager
City of Fort Lauderdale

Public Works | Engineering Services

101 NE 3rd Avenue #1420, Fort Lauderdale, FL 33301

Office: 954-828-5326 | Fax: 954-828-5074

Email: BLEighton@fortlauderdale.gov



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City of Fort Lauderdale employees or officials regarding City business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.



Think **GREEN!** Please do not print this email unless it is necessary.

B.6 OGC 16-1487 City of Fort Lauderdale – Notification of Completion 6(q) Temporary Emergency Generator at the G.T. Lohmeyer Wastewater Treatment Plant (WWTP) Project



July 8, 2021

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Amended Consent Order OGC No. 16-1487
Notification of Completion Letter for Amended Consent Order Paragraph 6(q)
Temporary Emergency Generator at the G.T. Lohmeyer Wastewater Treatment
Plant (WWTP)

The purpose of this letter is to notify the Florida Department of Environmental Protection (FDEP) that the City of Fort Lauderdale (City) has reached Substantial Completion on the Temporary Emergency Generator at the G.T. Lohmeyer Wastewater Treatment Plant Project, as required in Amended Consent Order OGC No. 16-1487, Paragraph 6(q). Based on this Amended CO requirement, the City is to complete the Temporary Emergency Generator Project no later than July 12, 2021.

<u>Project</u>	<u>Description</u>	<u>Substantial Completion</u>
Temporary Emergency Generator at GTL WWTP	Install and Connect (1) Temporary Emergency Generator at the G.T. Lohmeyer WWTP	June 29, 2021

Should you have any questions, or require greater details, please contact Brandy Leighton, Senior Project Manager, at Bleighton@fortlauderdale.gov or 954-828- 5326.

Talal Abi-Karam, P.E.
Interim Director - Public Works
City of Fort Lauderdale

Patricia A. Carney, P.E.
Program Manager
Hazen and Sawyer

PUBLIC WORKS DEPARTMENT

100 N ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA 33301
TELEPHONE (954) 828-5772, FAX (954) 828- 5074

WWW.FORTLAUDERDALE.GOV



c: Jason Andreotta, Florida Department of Environmental Protection
Sirena Davila, Florida Department of Environmental Protection
Michael Bechtold, Florida Department of Environmental Protection
Lisa M. Self, Florida Department of Environmental Protection
Bridgette Bucell, Florida Department of Environmental Protection
Kirsten Kitchens, Florida Department of Environmental Protection
Chris Lagerbloom, City Manager
Tarlesha Smith, Assistant City Manager / HR Director
Greg Chavarria, Assistant City Manager
Rhonda M. Hasan, Assistant City Attorney
Dr. Nancy Gassman, Assistant Public Works Director - Sustainability
Victor Carosi, Assistant Public Works Director - Engineering
Omar Castellon, Chief Engineer
Brandy Leighton, Senior Project Manager

Subject: FW: OGC 16-1487 City of Fort Lauderdale - Notification of Completion for CO Paragraph 6(q) Temporary Emergency Generator

From: Kitchens, Kirsten <Kirsten.Kitchens@FloridaDEP.gov>

Sent: Friday, July 23, 2021 3:41 PM

To: Brandy Leighton <BLEighton@fortlauderdale.gov>

Cc: Bucell, Bridjette <Bridjette.Bucell@FloridaDEP.gov>; Davila, Sirena <Sirena.Davila@FloridaDEP.gov>; Self, Lisa M. <Lisa.M.Self@FloridaDEP.gov>; Talal Abi-Karam <TAbi-Karam@fortlauderdale.gov>; Omar Castellon <OCastellon@fortlauderdale.gov>

Subject: [-EXTERNAL-] RE: OGC 16-1487 City of Fort Lauderdale - Notification of Completion for CO Paragraph 6(q) Temporary Emergency Generator

Hi Brandy!

Sorry for the late response – I was out of office for a few days. So to answer your question: yes, I'm Zara's replacement! I'm still wearing the training wheels, so Bridjette and/or Lisa will likely have some involvement for the time being, but from here on out I'll be your main contact for the CO. Woo!

Thank you for your response regarding the temporary generator. Your letter has provided us with enough information to consider this corrective action complete. As of today, July 23rd 2021, there are no outstanding corrective actions due.

Please do not hesitate to reach out if you have any questions regarding these upcoming CA's. I'm here to help and looking forward to hearing from you again soon. 😊

Best,



Kirsten Kitchens

Environmental Specialist I

Florida Department of Environmental Protection

Southeast District – West Palm Beach

3301 Gun Club Road, MSC 7210-1

West Palm Beach, FL 33406

Kirsten.Kitchens@floridadep.gov

Office: 561.681.6710

From: Brandy Leighton <BLEighton@fortlauderdale.gov>

Sent: Wednesday, July 14, 2021 5:42 PM

To: Kitchens, Kirsten <Kirsten.Kitchens@FloridaDEP.gov>

Cc: Bucell, Bridjette <Bridjette.Bucell@FloridaDEP.gov>; Davila, Sirena <Sirena.Davila@FloridaDEP.gov>; Self, Lisa M. <Lisa.M.Self@FloridaDEP.gov>; Talal Abi-Karam <TAbi-Karam@fortlauderdale.gov>; Omar Castellon <OCastellon@fortlauderdale.gov>

Subject: RE: OGC 16-1487 City of Fort Lauderdale - Notification of Completion for CO Paragraph 6(q) Temporary Emergency Generator

Good afternoon Kirsten,

It is so nice be introduced! Are you now the assigned representative (or main point of contact) with FDEP over our sewer consent order (OGC File No. 16-1487) that is replacing Zara? Thank you in advance for the clarification! I look forward to working with you!

I have received your email (provided below) with the Department's questions in regards to the Temporary Emergency Generator at the G.T. Lohmeyer Wastewater Treatment Plant Project. I believe the attached letter answers your questions, and serves as further backup that Consent Order Paragraph 6q has been satisfied. Please let me know if you require any additional information, and do not hesitate to reach out as needed.

Thank you,

Brandy Leighton, P.E., PMP 

Senior Project Manager
City of Fort Lauderdale

Public Works I Engineering Services

101 NE 3rd Avenue #1420, Fort Lauderdale, FL 33301

Office: 954-828-5326 | Fax: 954-828-5074

Email: Bleighton@fortlauderdale.gov

From: Kitchens, Kirsten <Kirsten.Kitchens@FloridaDEP.gov>

Sent: Monday, July 12, 2021 4:59 PM

To: Brandy Leighton <Bleighton@fortlauderdale.gov>

Cc: Bucell, Bridjette <Bridjette.Bucell@FloridaDEP.gov>; Davila, Sirena <Sirena.Davila@FloridaDEP.gov>; Self, Lisa M. <Lisa.M.Self@FloridaDEP.gov>

Subject: [-EXTERNAL-] RE: OGC 16-1487 City of Fort Lauderdale - Notification of Completion for CO Paragraph 6(q) Temporary Emergency Generator

Good afternoon Ms. Leighton,

I'd like to start off by introducing myself – my name is Kirsten Kitchens and I am the new inspector for Broward. If you have any questions or concerns, please do not hesitate to contact me via email or phone. I look forward to working with you and your facility.

We have received your notice letter and appreciate your cooperation throughout this process. The Department has the following questions:

- The letter states that the temporary generator has reached “substantial completion;” does that mean that it is fully operational and ready to use if a need arises on July 12, 2021?
- If not, what is still needed to make the generator operable?
- Can the temporary generator provide all the power necessary to fully operate one or more injection wells during a power outage?

Respectfully,



Kirsten Kitchens

Environmental Specialist I

Florida Department of Environmental Protection

Southeast District – West Palm Beach

3301 Gun Club Road, MSC 7210-1

West Palm Beach, FL 33406

Kirsten.Kitchens@floridadep.gov

From: Brandy Leighton <BLEighton@fortlauderdale.gov>

Sent: Friday, July 9, 2021 11:12 AM

To: SED.Wastewater <SED.Wastewater@dep.state.fl.us>

Cc: Bechtold, Mike <Mike.Bechtold@FloridaDEP.gov>; Self, Lisa M. <Lisa.M.Self@FloridaDEP.gov>; Bucell, Bridgette <Bridgette.Bucell@FloridaDEP.gov>; Chris Lagerbloom <CLagerbloom@fortlauderdale.gov>; Tarlesha Smith <TaSmith@fortlauderdale.gov>; Rhonda M Hasan <RHasan@fortlauderdale.gov>; Nancy Gassman <NGassman@fortlauderdale.gov>; Talal Abi-Karam <TAbi-Karam@fortlauderdale.gov>; Victor Carosi <VCarosi@fortlauderdale.gov>; Raj Verma <RVerma@fortlauderdale.gov>; Carney, Patricia A <pcarney@hazenandsawyer.com>; Andreotta, Jason <Jason.Andreotta@FloridaDEP.gov>; Davila, Sirena <Sirena.Davila@FloridaDEP.gov>; Greg Chavarria <GChavarria@fortlauderdale.gov>; Omar Castellon <OCastellon@fortlauderdale.gov>; Kitchens, Kirsten <Kirsten.Kitchens@FloridaDEP.gov>

Subject: OGC 16-1487 City of Fort Lauderdale - Notification of Completion for CO Paragraph 6(q) Temporary Emergency Generator

Good morning,

Please see the attached Notification of Completion Letter for Consent Order Paragraph 6(q) Temporary Emergency Generator at the GT. Lohmeyer Wastewater Treatment Plant for OGC File No. 16-1487. This Notification is being submitted on or before July 12, 2021 per the Amended Consent Order agreement. I would greatly appreciate confirmation of receipt of this email and attached letter. If you have any questions or need greater details, please contact me at 954-828-5326 or bleighton@fortlauderdale.gov.

Thank you,

Brandy Leighton, P.E., PMP 

Senior Project Manager
City of Fort Lauderdale

Public Works | Engineering Services

101 NE 3rd Avenue #1420, Fort Lauderdale, FL 33301

Office: 954-828-5326 | Fax: 954-828-5074

Email: BLEighton@fortlauderdale.gov



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City of Fort Lauderdale employees or officials regarding City business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.



Think **GREEN!** Please do not print this email unless it is necessary.



Appendix C: Construction Project Progress

Amended CO Paragraph No.	Project Name	Project Description	Action Completed During this last two Quarters	Anticipated Actions to Be Performed in the next Two Quarters
Fast Tracked				
6a	Las Olas Force Main Repair E. Las Olas 12" Force Main Replacement	1,900 LF Force Main replacement at Las Olas Blvd.	Project achieved Final Completion on May 17, 2018.	Project completed.
6b	Emergency Repair 30" Force Main – Phase I (3,200 LF) and Phase IV (8,000 LF)	11,200 LF Force Main replacement at Sistrunk Blvd.	Project achieved Final Completion July 23, 2018.	Project completed.
Phase I Pump Station Projects				
6c	Central Beach Alliance PS D-41	New sanitary sewer pump station which will replace the existing PS D-41 located along N. Birch Rd. between Rio Mar and Bayshore Dr.	Final completion was reached on March 4, 2019. A Notification of Completion Letter was submitted to FDEP on April 2, 2019.	Project completed.
6c	Isle of Venice Pump Station D-11 Flow Analysis & Redesign	Rehabilitation of Pump Stations D-10 and D-11.	Substantial Completion was reached on September 10, 2019. Final completion was reached on November 15, 2019. A Notification Letter was submitted to FDEP on December 6, 2019.	Project completed.
6c	A-13 New Pump Station, Sewer Redirection – East of Federal Highway	Design and construction to remove or divert all A-7 sewer flow from East of Federal Highway to an alternate or new pump station to relieve the capacity issues associated with both current and future development in the A-7 basin.	Substantial completion was obtained on March 27, 2020. A Notification Letter was submitted to FDEP on March 31, 2020. Final completion reached on October 20, 2020.	Project completed.
6c	Pump Station B-10 Imperial Point Rehabilitation	Rehabilitate Pump Station B-10.	Final completion was reached on February 6, 2019. A Notification of Completion Letter was submitted to FDEP on March 22, 2019.	Project completed.
6c	Harbor Beach Pump Station D-45 Replacement	Replacement of existing shone ejector pump station with a new prefabricated duplex submersible station.	Final completion was reached on August 3, 2018. A Notification of Completion Letter was submitted to FDEP on August 22, 2018.	Project completed.

Amended CO Paragraph No.	Project Name	Project Description	Action Completed During this last two Quarters	Anticipated Actions to Be Performed in the next Two Quarters
Infiltration/Inflow Projects				
6d	Victoria Park Basin A-19 Rehabilitation	Rehabilitation of main line sewers, manholes, and service laterals to reduce infiltration & inflow.	Finalized rehabilitation activities of mainlines, laterals, and manholes. A Notification of Completion Letter for Amended Consent Order paragraph 6(d) Infiltration/Inflow (I/I) Projects was submitted to FDEP on December 7, 2020, specifying that all Amended CO Phase I I/I Activities have been completed.	Project completed.
6d	Rio Vista Basin D-43 Rio Vista Sewer Basin D-43 Rehabilitation	Rehabilitation of main line sewers, manholes, and service laterals to reduce infiltration & inflow.	Finalized rehabilitation activities of mainlines, laterals, and manholes. A Notification of Completion Letter for Amended Consent Order paragraph 6(d) Infiltration/Inflow (I/I) Projects was submitted to FDEP on December 7, 2020, specifying that all Amended CO Phase I I/I Activities have been completed.	Project completed.
6d	Downtown Basin A-7 Downtown Sewer Basin PS A-7 Rehabilitation	Rehabilitation of main line sewers, manholes, and service laterals to reduce infiltration & inflow.	Finalized rehabilitation activities of mainlines, laterals, and manholes. A Notification of Completion Letter for Amended Consent Order paragraph 6(d) Infiltration/Inflow (I/I) Projects was submitted to FDEP on December 7, 2020, specifying that all Amended CO Phase I I/I Activities have been completed.	Project completed.
6d	Flagler Heights Sewer Basin A-21 Laterals	Rehabilitation of main line sewers, manholes, and service laterals to reduce infiltration & inflow.	Finalized rehabilitation activities of mainlines, laterals, and manholes. A Notification of Completion Letter for Amended Consent Order paragraph 6(d) Infiltration/Inflow (I/I) Projects was submitted to FDEP on December 7, 2020, specifying that all Amended CO Phase I I/I Activities have been completed.	Project completed.
6d	Dorsey-Riverbend Sewer Basin A-18 Sanitary Sewer Collection System Rehabilitation	Rehabilitation of main line sewers, manholes, and service laterals to reduce infiltration & inflow.	Finalized rehabilitation activities of mainlines, laterals, and manholes. A Notification of Completion Letter for Amended Consent Order paragraph 6(d) Infiltration/Inflow (I/I) Projects was submitted to FDEP on December 7, 2020, specifying that all Amended CO Phase I I/I Activities have been completed.	Project completed.
6d	Central Beach Alliance Sewer Basin D-40 Rehabilitation	Rehabilitation of main line sewers, manholes, and service laterals to reduce infiltration & inflow.	Project Completed.	Project Completed.

Amended CO Paragraph No.	Project Name	Project Description	Action Completed During this last two Quarters	Anticipated Actions to Be Performed in the next Two Quarters
Phase II Projects				
6e	NE 25th Ave. 24" Force Main	Replace or rehabilitate approx. 5,500 feet of RCP force main along NE 25th Ave.	The draft Design Criteria Package (DCP) was completed, while easement coordination efforts continue.	Completion of DCP, acquisition of easements and preparation for bidding.
6e	NE 38th St. & NE 50th Ct. 42" Force Main	Replace or rehabilitate approx. 8,000 feet of DIP force main along NE 38th St. and install 2,500 feet of new 24" force main along NE 50th Ct.	Working with Coral Ridge Golf Course and Oakland Park to obtain required easements and permission to construct in right-of-way, while continuing to develop and finalize the Design Criteria Package (DCP).	Completion of DCP, acquisition of easements and preparation for bidding.
6e	NW 5th St., NW 9th Ave., & W. Sistrunk Blvd. 30" Force Main	Replace or rehabilitate approx. 12,000 feet of CIP force main along NW 5th St & NW 9th Ave., and install 6,000 feet of new 24" force main along Sistrunk Blvd.	Project achieved Final Completion on July 23, 2018.	Project completed.
6e	Redundant Sewer Force Main South	Install 15,000 feet of new redundant 54" force main from approx. 900 feet south of the intersection of East Sunrise Blvd. and NE 15 th Ave. to the intersection of SE 10 th Ave. and SE 18 th St.	Substantial Completion was reached on April 17, 2021. Broward County Certifications were obtained for all phases of project.	Final completion to be issued to contractor. Notification of completion letter to be sent to FDEP.
6e	Rehabilitation of 48"/54" Force Main Replacement on SE 9th and 10th Ave. to GTL	Rehabilitation or replacement of approx. 19,400 feet of the existing 48" to 54" force main along SE 9 th and 10 th Ave. to GTL WWTP.	Under City's budget office evaluation for funding approval.	Begin scope negotiations with Design Consultant to prepare the DCP for this design-build project.
6e	Treatment Plant to Injection Wells Effluent Force Main	Replace or rehabilitate the PCCP effluent force main leading from the G.T. Lohmeyer facility to the deep injection wells.	In preparation for detailed design, stakeholder coordination was completed to confirm a feasible force main route.	Select new route alternative in coordination with Broward County. Negotiate a task order with Design Consultant to prepare the DCP for the replacement/rehabilitation of this pipeline.
6e	NW 13th St. 24" Force Main	Replace or rehabilitate approx. 3,300 feet of CIP force main along NW 13th St.	The Notice to Proceed was given to the Design-Build Firm (DBF) on 7/27/2020. DBF completed the force main design and permitting, and started construction on 1/25/2021. Completion of the project	Complete project permitting and start construction. Project completion is anticipated in July 2021.

Amended CO Paragraph No.	Project Name	Project Description	Action Completed During this last two Quarters	Anticipated Actions to Be Performed in the next Two Quarters
			construction was delayed due to ductile iron fittings delivery date, which was impacted by manufacturer staff COVID-19 issues.	
6e	NE 9th St. to Birch Rd. River Crossing 18" Force Main	Replace or rehabilitate approx. 3,200 feet of DIP force main river crossing from NE 9th St. to Birch Rd.	Notice to proceed was issued on January 4, 2021. Design was completed and permit application were submitted and approved by permitting agencies. Mobilization began in May and the project is nearly complete.	Substantial and Final Completion of Project is expected, along with Broward County Certifications. Notification to FDEP for Project completion to be sent out and project to be closed out.
Added to Phase II Projects (Per Force Main Condition Assessment Recommendations)				
FMCA Report Recommendation	South Middle River Force Main River Crossing	Replace a 12" ductile iron pipe subaqueous crossing beneath the South Middle River and NE 21st St.	The project reached Substantial Completion on August 5, 2020, and Final completion on August 31, 2020. Project completion Notification letter was sent to FDEP on November 12, 2020. Project is complete and closed out.	Project completed.
FMCA Report Recommendation	Force Main (From Pump Station D-35 to D-36) Upsize	Replace approximately 2,000 feet of 8" and 10" cast-iron pipe on the discharge of Pump Stations D-35 and D-36.	The project reached Substantial Completion on March 5, 2021, and Final Completion on May 31, 2021. Project completion Notification letter was sent to FDEP on June 29, 2021. Project is complete and closed out.	Project completed.
FMCA Report Recommendation	Redundant Sewer Force Main Project North	Install approximately 27,500 feet of 42" force main from the discharge of Repump Station B to south of Sunrise Blvd. to provide redundancy to the existing 42" Repump Station B discharge force main.	Design and construction of the new force main is ongoing.	Substantial and Final Completion of Project is expected, along with Broward County Certifications.
FMCA Report Recommendation	NE 36th St. Force Main Improvements	Replace approximately 1,200 feet of 12" cast iron pipe along NE 36th St., east of Bayview Drive	Project construction began in January and reached Final completion on March 20, 2020. Broward County (EPGMD) Final Certification was issued on September 3, 2020.	Project completed.
FMCA Report Recommendation	NE 5 th St. Force Main Improvements Victoria Park 16" Force Main Repair	Replace approximately 4,700 feet of 16" cast iron pipe in the Victoria Park neighborhood.	Final completion was reached on February 25, 2020. Broward County (EPGMD) Final Certification was issued on September 3, 2020.	Project completed.
Emergency Generators at the G.T. Lohmeyer WTP Projects				

Amended CO Paragraph No.	Project Name	Project Description	Action Completed During this last two Quarters	Anticipated Actions to Be Performed in the next Two Quarters
6(q)	Temporary Emergency Generator at GTL WWTP	Install and Connect at least one Temporary Emergency Generator at the G.T. Lohmeyer WWTP	The City procured the temporary generator, completed design and bidding/installation of the temporary generator and electrical connection. On June 29, 2021, an operational test was completed successfully the project was declared substantially complete by the City. Substantial Completion was issued to the Contractor on June 29, 2021.	Contractor to receive final completion and project to be closed out.
6(r)	Effluent Pumps Standby Generator & Admin Building Improvements	Install Permanent Emergency Generator(s) at the G.T. Lohmeyer WWTP	The City's consultant completed a Feasibility Study that evaluated options to provide emergency electrical power needed to run the effluent pumps. The City is in the process of preparing a design criteria package (DCP) and procurement package for a Design-Build Firm (DBF) for project implementation.	City procurement process to begin. Project will be advertised and a request for qualifications / procurement package will be made available for prospective bidders.
In Kind One Project				
16/EX D	Phase II Las Olas Blvd Force Main Replacement and Modifications to Pump Station D-38	Install approx. 3,100 feet of force main on Las Olas Blvd. from Lido Drive to Merle Fogg Park and upgrade Pump Station D-38's wet well, electrical panels, and pumps.	Construction of the Las Olas Force Main has been completed. Project reached Substantial Completion on July 20, 2020. Record Drawings have been submitted and approved. Broward County Final Certifications have been obtained and project is closed out. Construction of Pump Station D-38 has been completed. Project reached Substantial Completion on September 16, 2020. Broward County Final Certifications have been obtained and project is closed out.	Project completed.
In Kind Two Project				
18/EX E	River Oaks and Edgewood neighborhood Improvements	Construction of a new stormwater drainage system within the low-lying areas of River Oaks and Edgewood neighborhoods to alleviate flooding. Restoration of Osceola Creek Canal dredging and bank stabilization.	Approval of In-Kind Two Project Proposal was received on January 20, 2021. River Oaks Project: - Project is in the bidding phase. - The purchase of mitigation credits is being facilitated for the River Oaks Neighborhood Stormwater improvements in order to finalize permitting. Edgewood Stormwater Improvements Project:	River Oaks Project: - Recommendation of Award package for the lowest responsible bidder is expected to be approved at the August 17, 2021 City Commission Meeting. - City Staff will be attending a neighborhood association public meeting on August 19, 2021 in order to provide a project update.

Amended CO Paragraph No.	Project Name	Project Description	Action Completed During this last two Quarters	Anticipated Actions to Be Performed in the next Two Quarters
			<ul style="list-style-type: none"> - Bid for this project was advertised on June 4, 2021. - Permits have been approved and are expected to be issued in June 2021. <p>Osceola Creek Restoration Project:</p> <ul style="list-style-type: none"> - Project is in the design Phase. - Consultant is currently at 60% design plans, specifications and estimates. 	<ul style="list-style-type: none"> - Construction is anticipated to commence by the end of 2021. <p>Edgewood Stormwater Improvements Project:</p> <ul style="list-style-type: none"> - Bid opening is scheduled for July 27, 2021. - The project will be awarded to a contractor. - Construction is anticipated to commence by the end of 2021. <p>Osceola Creek Restoration Project:</p> <ul style="list-style-type: none"> - Complete permitting from various agencies. - Finalize bid documents - Advertise project for bidding

Appendix D: Master Program Schedule

Fort Lauderdale Sewer Program
Master Program Schedule

Data Date: 30-Jun-21
Print Date: 27-Jul-21

Activity ID	Activity Name	Original Duration	Start	Finish	Consent Order Deadline	Total Float	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
							Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
City of Fort Lauderdale		5465	30-Jun-11 A	15-Jun-26		5										
City of Fort Lauderdale		5465	30-Jun-11 A	15-Jun-26		5										
Milestones		3141	29-Sep-17 A	05-May-26		46										
Consent Order Milestone Date		3141	29-Sep-17 A	05-May-26		46										
COM00-COM0	FTL Consent Order Effective	0	29-Sep-17 A													
High Risk FM Projects Paragraphs 6(a,b,e)		91	28-Feb-18 A	30-May-18 A												
12177- Las Olas Force Main Replacement Par. 6(a)		0	28-Feb-18 A	28-Feb-18 A												
12177-COM1	Required Completion Date (CO)	0		28-Feb-18 A												
12319-30-inch FM Emergency Repairs Par. 6(b) & 6(e), Ph II, Exh. C, Ln. 3		0	30-May-18 A	30-May-18 A												
12319-COM2	Required Completion Date (CO)	0		30-May-18 A	31-May-18											
Phase 1 Projects		61	27-Mar-20 A	30-Nov-20 A												
COM00-COM3	Required Completion Date (CO) - Phase IPS	0		27-Mar-20 A	30-Sep-20											
COM00-COM4	Required Completion Date (CO) - Phase II&I	0		30-Nov-20 A	30-Dec-20											
Phase 2 Projects		0	05-May-26	05-May-26		46										
COM00-COM5	Required Completion Date (CO) - Phase II FM	0		05-May-26*	30-Sep-26	46										
Program Schedule		0	22-Dec-17 A	22-Dec-17 A												
COM00-COM6	Existing Schedule Submittal	0		22-Dec-17 A	28-Dec-17											
12418- Mapping Plan		30	26-Jun-18 A	26-Jul-18 A												
12418-COM7	Submit Mapping Plan to FDEP (CO)	0		26-Jun-18 A	29-Jun-18											
12418-COM8	FDEP Review and Comment (CO)	0		26-Jul-18 A	27-Jul-18											
12418- Sewer Map		0	28-Jun-19 A	28-Jun-19 A												
12418-COM9	Develop Sewer System Map (CO)	0		28-Jun-19 A	29-Jun-19											
12418-COM10	Certify Mapping Complete to FDEP	0		28-Jun-19 A	29-Jun-19											
12419- Force Main Condition Assessment		603	29-Jul-18 A	23-Mar-20 A												
12419-COM11	Submit FM Condition Assessment Plan to FDEP (CO)	0		29-Jul-18 A	29-Jul-18											
12419-COM12	FDEP Review and Comment (CO)	0		03-Aug-18 A	28-Aug-18											
12419-COM13	Force Main Assessment Final Completion (CO)	0		23-Jan-20 A	03-Feb-20											
12419-COM14	Submit Summary Report (CO)	0		23-Mar-20 A	03-Apr-20											
12367 para. (j) AM/CMOM Plan		30	28-Aug-18 A	27-Sep-18 A												
12367-COM15	Submit AM and CMOM Program Plan (CO)	0		28-Aug-18 A	29-Aug-18											
12367-COM16	FDEP Review and Comment (CO)	0		27-Sep-18 A	28-Sep-18											
12368- Capacity Evaluation		67	17-May-19 A	23-Jul-19 A												
12368-COM17	Evaluate collection system capacity (CO)	0		17-May-19 A	29-May-19											
12368-COM18	Submit Summary Report to FDEP (CO)	0		23-Jul-19 A	29-Jul-19											
12367 para. (k) AM/CMOM Program		29	25-Jun-20 A	24-Jul-20 A												
12367-COM19	Submit AM / CMOM Program to FDEP (CO)	0		25-Jun-20 A	25-Jun-20											
12367-COM20	FDEP Review and Comment (CO)	0		24-Jul-20 A	25-Jul-20											
12367 para. (l) AM/CMOM Program Schedule		29	25-Jun-20 A	24-Jul-20 A												
12367-COM21	Submit AM / CMOM Program Schedule to FDEP (CO)	0		25-Jun-20 A	25-Jun-20											
12367-COM22	FDEP Review and Comment (CO)	0		24-Jul-20 A	25-Jul-20											
Project Tracking - Par. 6(o,p)		1245	31-Jan-18 A	30-Jun-21		1812										
Year 1 (2018)		365	31-Jan-18 A	31-Jan-19 A												
SAR01-SAR01-COM23	2017 Semi-Annual Report No. 2 (12/31/17)	0		31-Jan-18 A	31-Jan-18											
SAR01-SAR02-COM24	2018 Semi-Annual Report No. 1 (6/30/18)	0		30-Jul-18 A	31-Jul-18											
SAR01-SAR03-COM25	2018 Semi-Annual Report No. 2 (12/31/18)	0		31-Jan-19 A	31-Jan-19											
Year 2 (2019)		181	31-Jul-19 A	28-Jan-20 A												
SAR01-SAR04-COM26	2019 Semi-Annual Report No. 1 (6/30/19)	0		31-Jul-19 A	31-Jul-19											

Remaining Level of Effort CO Milestone Remaining Work summary
Actual Level of Effort All Work Critical Remaining Work

A = Actual Date
* = Consent Order Constraint Date

Fort Lauderdale Sewer Program
Master Program Schedule






Data Date: 30-Jun-21
Print Date: 27-Jul-21

Activity ID	Activity Name	Original Duration	Start	Finish	Consent Order Deadline	Total Float	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
							Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
	SAR01-SAR05-COM27	2019 Semi-Annual Report No. 2 (12/31/19)	0	28-Jan-20A	31-Jan-20											
	Year 3 (2020)		181	31-Jul-20A	29-Jan-21A											
	SAR01-SAR06-COM28	2020 Semi-Annual Report No. 1 (6/30/20)	0	31-Jul-20A	31-Jul-20											
	SAR01-SAR07-COM29	2020 Semi-Annual Report No. 2 (12/31/20)	0	29-Jan-21A	31-Jan-21											
	Year 4 (2021)		0	30-Jun-21	30-Jun-21	216										
	SAR01-SAR08-COM30	2021 Semi-Annual Report No. 1 (6/30/21)	0	30-Jun-21*	31-Jul-21	32										
	SAR01-SAR09-COM31	2021 Semi-Annual Report No. 2 (12/31/21)	0	30-Jun-21*	31-Jan-22	216										
	Year 5 (2022)		0	30-Jun-21	30-Jun-21	581										
	SAR01-SAR10-COM32	2022 Semi-Annual Report No. 1 (6/30/22)	0	30-Jun-21*	31-Jul-22	397										
	SAR01-SAR11-COM33	2022 Semi-Annual Report No. 2 (12/31/22)	0	30-Jun-21*	31-Jan-23	581										
	Year 6 (2023)		0	30-Jun-21	30-Jun-21	946										
	SAR01-SAR12-COM34	2023 Semi-Annual Report No. 1 (6/30/23)	0	30-Jun-21*	31-Jul-23	762										
	SAR01-SAR13-COM35	2023 Semi-Annual Report No. 2 (12/31/23)	0	30-Jun-21*	31-Jan-24	946										
	Year 7 (2024)		0	30-Jun-21	30-Jun-21	1312										
	SAR01-SAR14-COM36	2024 Semi-Annual Report No. 1 (6/30/24)	0	30-Jun-21*	31-Jul-24	1128										
	SAR01-SAR15-COM37	2024 Semi-Annual Report No. 2 (12/31/24)	0	30-Jun-21*	31-Jan-25	1312										
	Year 8 (2025)		0	30-Jun-21	30-Jun-21	1677										
	SAR01-SAR16-COM38	2025 Semi-Annual Report No. 1 (6/30/25)	0	30-Jun-21*	31-Jul-25	1493										
	SAR01-SAR17-COM39	2025 Semi-Annual Report No. 2 (12/31/25)	0	30-Jun-21*	31-Jan-26	1677										
	Year 9 (2026)		0	30-Jun-21	30-Jun-21	1812										
	SAR01-SAR18-COM40	2026 Semi-Annual Report No. 1 (6/30/26)	0	30-Jun-21*	31-Jul-26	1812										
	SAR01-SAR19-COM41	2026 Semi-Annual Report No. 2 (9/30/26)	0	30-Jun-21*	31-Oct-26	1812										
	Cost of Corrective Actions		846	28-Mar-18A	21-Jul-20A											
	CCA00-CA01-COM42	Cost of Corrective Actions Paragraphs 6(a) - 6(l) (CO)	0	28-Mar-18A	28-Mar-18											
	CCA00-CA02-COM43	Cost of Corrective Actions Phase II Projects (CO)	0	21-Jul-20A	31-Jul-20											
	Pay Administrative Fee - Par.15		0	16-Oct-17A	16-Oct-17A											
	PAF00-COM44	PayAdministrative Fee	0	16-Oct-17A	29-Oct-17											
	12390-In-Kind Project One		1145	11-Oct-17A	30-Nov-20A											
	12390-COM45	Submit Intent to Submit In-Kind Proposal	0	11-Oct-17A	14-Oct-17											
	12390-COM46	Submit Detailed Proposal to FDEP	0	22-Nov-17A	28-Nov-17											
	12390-COM47	Obtain Approval or Rejection from FDEP for In-kind Project	0	16-May-18A	27-Jan-18											
	12390-COM48	Design/Permit/Bid/Construct In-Kind Project	0	16-Sep-20A	02-Dec-20											
	12390-COM49	Notify FDEP of Project Completion	0	30-Nov-20A	17-Dec-20											
	Notice of Consent Agreement - Par.26		3	14-Oct-17A	17-Oct-17A											
	NCA00-COM50	Publish Notice of Consent Agreement	0	14-Oct-17A	14-Oct-17											
	NCA00-COM51	Provide Certified Copy of Notice to FDEP	0	17-Oct-17A	24-Oct-17											
	Consent Order Amendment 10/12/2020 - Added Milestones		1542	12-Oct-20A	31-Dec-24	536										
	COA00-COM0	FTL Amended Consent Order Effective	0	12-Oct-20A												
	COA00-COM52	Install and Connect at least (1) Temporary Emergency Generator at GTL WWTP	0	29-Jun-21A	12-Jul-21											
	COA00-COM53	Install Permanent Emergency Generator at the G.T. Lohmeyer WWTP	0	30-Jun-21*	12-Feb-24	958										
	COA00-COM54	Create and Submit a (Rapid Response Plan)	0	30-Jun-21*	12-Aug-21	44										
	COA00-COM55	FDEP Review and Approval of Rapid Response Plan	0	30-Jun-21*	11-Sep-21	74										
	COA00-COM56	Estimate of the Amount of Solids released from the sewage	0	28-Dec-20A	10-Apr-21											
	COA00-COM57	Develop and Submit a Water Quality Assessment Plan (per FAC Rule 62-302)	0	29-May-21A	30-May-21											
	COA00-COM58	FDEP Review and Approval of Water Quality Assessment Plan	0	30-Jun-21*	28-Jun-21	-2										
	COA00-COM59	Submit Water Quality Evaluation Report	0	29-May-21A	27-Sep-21											
	COA00-COM60	FDEP Review and Water Quality Evaluation Report	0	30-Jun-21*	28-Jun-21	-1										

Remaining Level of Effort CO Milestone Remaining Work summary
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 Remaining Level of Effort
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 Actual Level of Effort
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Fort Lauderdale Sewer Program
Master Program Schedule

Data Date: 30-Jun-21
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Activity ID	Activity Name	Original Duration	Start	Finish	Consent Order Deadline	Total Float	2017		2018		2019		2020		2021		2022		2023		2024		2025		2026	
							Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
	Planning Phase	77	01-Apr-15A	16-Jun-15A																						
	Design Phase	443	15-Sep-15A	30-Nov-16A																						
	Bidding Phase	280	01-Dec-16A	06-Sep-17 A																						
	Construction Phase	512	07-Sep-17A	31-Jan-19A																						
	Pump Station D-45 (P11881) Par. 6(c), Ph I, Exh.A, Ln. 5	2592	30-Jun-11A	03-Aug-18A																						
	Planning Phase	52	30-Jun-11A	20-Aug-11 A																						
	Design Phase	1454	30-Jun-13A	22-Jun-17 A																						
	Bidding Phase	117	23-Jun-17A	17-Oct-17 A																						
	Construction Phase	290	18-Oct-17A	03-Aug-18A																						
	Paragraph 6(d) - Phase I M Projects	1827	31-Dec-15A	07-Dec-20A																						
	Sewer Basin A-19 (P11563) Par. 6(d), Ph I, Exh. B, Ln. 1	1173	29-Sep-17A	07-Dec-20A																						
	II Activities	1173	29-Sep-17A	07-Dec-20A																						
	Rio Vista Sewer Basin D-43 (P11566) Par. 6(d), Ph I, Exh. B, Ln. 2	1826	31-Dec-15A	07-Dec-20A																						
	II Activities	1826	31-Dec-15A	07-Dec-20A																						
	Downtown Pump Station A-7 (P11991) Par. 6(d), Ph I, Exh. B, Ln. 3	1189	29-Sep-17A	07-Dec-20A																						
	II Activities	1189	29-Sep-17A	07-Dec-20A																						
	Flagler Heights Sewer Basin A-21 (P12049) Par. 6(d), Ph I, Exh. B, Ln. 4	1309	09-May-17A	07-Dec-20A																						
	II Activities	1309	09-May-17A	07-Dec-20A																						
	Dorsey-Riverbend Sewer Basin A-18 (P12055) Par. 6(d), Ph I, Exh. B, Ln. 5	1166	29-Sep-17A	07-Dec-20A																						
	II Activities	1166	29-Sep-17A	07-Dec-20A																						
	Central Beach Alliance Sewer Basin D-40 (P12001) Par. 6(d), Ph I, Exh. B, Ln. 6	96	27-Sep-17A	07-Dec-20A																						
	II Activities	96	27-Sep-17A	07-Dec-20A																						
	Paragraph 6(e) - Phase II FM Rehabilitation Projects	3057	01-Feb-18A	15-Jun-26			5																			
	NE 25 Avenue - 24" Force Main (P12383) Par. 6(e), Ph II, Exh. C, Ln. 1	1887	31-Jan-19A	31-Mar-24			806																			
	Planning Phase	356	31-Jan-19A	21-Jan-20A																						
	Design Criteria Package Phase	318	22-Jan-20A	20-Dec-21			-1																			
	Bidding Phase	352	21-Dec-21	07-Dec-22			806																			
	Design-Build Phase	480	07-Dec-22	31-Mar-24			806																			
	NE 38 Street & NE 19 Ave - 42" Force Main (P12384) Par. 6(e), Ph II, Exh. C, Ln. 2	2688	20-Dec-18A	29-Apr-26			47																			
	Planning Phase	398	20-Dec-18A	21-Jan-20A																						
	Design Criteria Package Phase	357	22-Jan-20A	30-Jun-21			706																			
	Bidding Phase	337	07-Jun-23	08-May-24			47																			
	Design-Build Phase	721	08-May-24	29-Apr-26			47																			
	Redundant Sewer Forcemain South (P12567) Par. 6(e), Ph II, Exh. C, Ln. 4&5	584	20-Dec-19A	25-Jul-21			1786																			
	Planning Phase	1	20-Dec-19A	20-Dec-19A																						
	Design Criteria Package Phase	1	31-Dec-19A	31-Dec-19A																						
	Bidding Phase	36	20-Dec-19A	24-Jan-20A																						
	Design-Build Phase	549	24-Jan-20A	25-Jul-21			1786																			
	Rehabilitation of Existing 54-inch FM (P TBD) Par. 6(e), Ph II, Exh. C, Ln. 4&5	1447	30-Jun-22	15-Jun-26			0																			
	Planning Phase	121	30-Jun-22	28-Oct-22			6																			
Design Criteria Package Phase	285	31-Oct-22	11-Aug-23			4																				
Bidding Phase	348	12-Aug-23	24-Jul-24			0																				
Design-Build Phase	691	24-Jul-24	15-Jun-26			0																				
Treatment Plant to Injection Wells - Effluent Force Main (P12387) Par. 6(e), Ph II, Exh. C, Ln. 6	2486	16-Oct-18A	05-Aug-25			-274																				
Planning Phase	1131	16-Oct-18A	19-Nov-21			-280																				
Design Phase	645	20-Nov-21	26-Aug-23			-278																				
Bidding Phase	284	27-Aug-23	05-Jun-24			-274																				
Construction Phase	426	06-Jun-24	05-Aug-25			-274																				
NW 13 Street - 24" Force Main (P12388) Par. 6(e), Ph II, Exh. C, Ln. 7	1259	20-Mar-18A	29-Aug-21			-69																				
Planning Phase	435	20-Mar-18A	28-May-19A																							
Design Criteria Package Phase	123	12-Mar-19A	12-Jul-19A																							
Bidding Phase	379	15-Jul-19A	27-Jul-20A																							

Remaining Level of Effort

Actual Level of Effort

CO Milestone

All Work

Remaining Work

Critical Remaining Work

summary

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Fort Lauderdale Sewer Program
Master Program Schedule

Data Date: 30-Jun-21
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Activity ID	Activity Name	Original Duration	Start	Finish	Consent Order Deadline	Total Float	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
							Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
	Design-Build Phase	399	27-Jul-20A	29-Aug-21		-69										
	NE 9 Street to Birch Rd. River Crossing - 18" Force Main (P12389) Par. 6(e), Ph II, Exh. C, Ln. 8	1199	15-Jun-18A	26-Sep-21		1724										
	Planning Phase	123	15-Jun-18A	15-Oct-18A												
	Design Criterial Package Phase	163	16-Oct-18A	27-Mar-19A												
	Bidding Phase	460	26-Nov-19A	04-Jan-21A												
	Design-Build Phase	210	04-Jan-21A	26-Sep-21		1724										
	South Middle River Force Main River Crossing (P12352) - Added by FMCAReport	1016	01-Feb-18A	15-Dec-20A												
	Planning Phase	89	01-Feb-18A	30-Apr-18A												
	Design Criteria Package Phase	204	11-May-18A	30-Nov-18A												
	Bidding Phase	333	01-Jan-19A	29-Nov-19A												
	Design-Build Phase	349	30-Nov-19A	15-Dec-20A												
	Pump Station D-36 Discharge FM Replacement (P12413) - Added by FMCAReport	1189	01-Mar-18A	30-Jun-21A												
	Planning Phase	61	01-Mar-18A	30-Apr-18A												
	Design	574	11-May-18A	05-Dec-19A												
	Bidding Phase	249	06-Dec-19A	10-Aug-20A												
	Construction Phase	282	24-Aug-20A	30-Jun-21A												
	Redundant Sewer Forcemain North (P12566) - Added by FMCAReport	741	20-Dec-19A	29-Dec-21		1629										
	Redundant Sewer Forcemain North	607	20-Dec-19A	17-Aug-21		-1										
	Design Criteria Package Phase	1	31-Dec-19A	31-Dec-19A												
	Planning Phase	1	20-Dec-19A	20-Dec-19A												
	Bidding Phase	36	20-Dec-19A	24-Jan-20A												
	Design-Build Phase	572	24-Jan-20A	17-Aug-21		-1										
	PS B-4 FM Project	556	22-Jun-20A	29-Dec-21		1629										
	Design Criteria Package Phase	43	22-Jun-20A	03-Aug-20A												
	Bidding Phase	302	03-Aug-20A	01-Jun-21A												
	Design-Build Phase	212	01-Jun-21A	29-Dec-21		1629										
	NE 36th Street Repair Project (PF-1) - Added by FMCAReport	277	02-Dec-19A	03-Sep-20A												
	Planning Phase	2	02-Dec-19A	03-Dec-19A												
	Design Criteria Package Phase	4	03-Dec-19A	06-Dec-19A												
	Bidding Phase	5	09-Dec-19A	13-Dec-19A												
	Design-Build Phase	263	16-Dec-19A	03-Sep-20A												
	Victoria Park FM Replacement (PF-2) - Added by FMCA Report	277	02-Dec-19A	03-Sep-20A												
	Planning Phase	2	02-Dec-19A	03-Dec-19A												
	Design Criteria Package Phase	4	03-Dec-19A	06-Dec-19A												
	Bidding Phase	5	09-Dec-19A	13-Dec-19A												
	Design-Build Phase	263	16-Dec-19A	03-Sep-20A												
	Paragraph 6(g) - Mapping	666	29-Sep-17A	26-Jul-19A												
	Mapping Plan and Sewer Map (P12418) Par. 6(g)	666	29-Sep-17A	26-Jul-19A												
	Mapping Plan	302	29-Sep-17A	27-Jul-18A												
	Sewer Map	379	13-Jul-18A	26-Jul-19A												
	Paragraph 6(h) - FM Condition Assessment	907	29-Sep-17A	23-Mar-20A												
	Force Main Condition Assessment (P12419) Par. 6(h)	907	29-Sep-17A	23-Mar-20A												
	FMCA Plan (Hazen TO #4)	309	29-Sep-17A	03-Aug-18A												
	Phase I (Hazen TO #12)	216	01-Aug-18A	04-Mar-19A												
	Phase II & III	397	21-Feb-19A	23-Mar-20A												
	Paragraph 6(i) - Asset Management & CMOM Development Plan	364	29-Sep-17A	27-Sep-18A												
	Asset Management and CMOM Development Plan (P12367) Par. 6(i)	364	29-Sep-17A	27-Sep-18A												
	Asset Management and CMOM Development Plan	364	29-Sep-17A	27-Sep-18A												
	Paragraph 6(j) - Capacity Evaluation	368	20-Aug-18A	22-Aug-19A												
	Capacity Evaluation (P12368) Par. 6(j)	368	20-Aug-18A	22-Aug-19A												
	Task 1 - Wastewater Models Update and Development	219	21-Aug-18A	27-Mar-19A												
	Task 2 - Wastewater Transmission System Model Calibration	188	18-Nov-18A	24-May-19A												

Remaining Level of Effort CO Milestone Remaining Work summary
Actual Level of Effort All Work Critical Remaining Work

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Fort Lauderdale Sewer Program
Master Program Schedule

Data Date: 30-Jun-21
Print Date: 27-Jul-21

Activity ID			Activity Name	Original Duration	Start	Finish	Consent Order Deadline	Total Float	2017			2018			2019			2020			2021			2022			2023			2024			2025			2026		
									Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		
			Task 3 - Development of Wastewater Transmission System Model Flow	201	20-Aug-18A	08-Mar-19A																																
			Task 4 - Development of Modeling Scenarios for Capacity Evaluations	39	07-Feb-19A	17-Mar-19A																																
			Task 5 - Wastewater Transmission and Collection System Capacity	77	24-Mar-19A	08-Jun-19A																																
			Task 6 - Capacity Evaluation Report	56	29-May-19A	23-Jul-19A																																
			Task 6.A - Meet with Regulatory Agencies	31	23-Jul-19A	22-Aug-19A																																
		Paragraph 6(k) - Asset Management & CMOM Program			1049	16-Aug-18A	30-Jun-21		-273																													
			Asset Management and CMOM Program (P12367) Par. 6(k)			1049	16-Aug-18A	30-Jun-21		-273																												
			Asset Management and CMOM Program			1049	16-Aug-18A	30-Jun-21		-273																												
		Paragraph 6(l) - Asset Management & CMOM Program Schedule			29	25-Jun-20A	24-Jul-20A																															
			Asset Management & CMOM Program Schedule (P12367) Par. 6(l)			29	25-Jun-20A	24-Jul-20A																														
			Schedule Development			29	25-Jun-20A	24-Jul-20A																														
		Paragraph 6(o&p) - Semi-Annual Reporting			792	31-Aug-18A	30-Jun-21		-242																													
			Project Tracking - Par. 6(o,p)			792	31-Aug-18A	30-Jun-21		-242																												
			Program Management Office			792	31-Aug-18A	30-Jun-21		-242																												
		Paragraph 8 - Cost of Corrective Actions			1027	29-Sep-17A	21-Jul-20A																															
			Cost of Corrective Actions - Par. 8			1027	29-Sep-17A	21-Jul-20A																														
			Cost of Corrective Actions			1027	29-Sep-17A	21-Jul-20A																														
		Paragraph 16/EX D In-Kind One Project			930	16-May-18A	30-Nov-20A																															
			In-Kind Project (P12390) Par.16, Exh. D			930	16-May-18A	30-Nov-20A																														
			Plannning Phase			86	16-May-18A	09-Aug-18A																														
			Design Criteria Package Phase			202	09-Aug-18A	26-Feb-19A																														
			Bidding and Award Phase			313	17-Dec-18A	25-Oct-19A																														
			Construction Phase			434	23-Sep-19A	30-Nov-20A																														
		Las Olas FM Design-Build Contract			434	23-Sep-19A	30-Nov-20A																															
		Pump Station D-38 Construction			398	29-Oct-19A	30-Nov-20A																															
	Paragraph 6(n) - AM & CMOM Programs Implementation			1885	01-Jan-20A	31-Dec-24		0																														
	AM & CMOM Programs Implementation Activities (P12367) Par 6(n)			1885	01-Jan-20A	31-Dec-24		0																														

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