



Quarterly Report

**October 1, 2019
Through
December 31, 2019**

PURSUANT TO PARAGRAPH 19, OF THE CONSENT DECREE BETWEEN BALTIMORE COUNTY AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, DEPARTMENT OF JUSTICE AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Pursuant to Paragraph 19 of the Consent Decree between Baltimore County (County) and The United States Environmental Protection Agency (EPA), the Department of Justice (DOJ), and the Maryland Department of the Environment (MDE), this document constitutes the required Quarterly Report for the period **October 1, 2019** through **December 31, 2019**.

The quarterly report discusses activities and progress of Baltimore County towards compliance with the requirements set forth in the Consent Decree including:

- i. Non-Pump Station and Pump Station SSO Structure discharges
- ii. Construction Project Status
- iii. Collection system inspection progress
- iv. SRRR plan implementation progress
- v. FOG program modification and development progress
- vi. Supplemental Environmental Projects status, and
- vii. Compliance with certification of completion and other issues of the Consent Decree

i. Non-Pump Station and Pump Station SSO Structure Discharges

Discharges from Sanitary Sewer Overflow Structures took place at the locations and dates during the reporting period as detailed in **Attachment A**.

A summary of flow metering information for Non-Pump Station SSO Structures is included as **Attachment A1**.

ii. Construction Project Status

Attachment B presents the status of Paragraph 7 – Non-Pump Station SSO Structure Elimination projects and Paragraph 13.F - Pump Station Rehabilitation Repair and Replacement projects that are in design and construction during the reporting quarter.

iii. Collection System Inspection

Continued implementation of the inspection of the collection system, pursuant to Paragraph 15 of the Consent Decree.

Paragraph 15.B.i.b inspection status is summarized in **Attachment C**. Baltimore County anticipates completing inspection of the gravity sewer lines identified in Paragraph 15.B.i.b by September 20, 2020.

Continued compliance with all gravity line CCTV inspections within the required 10 working days of the occurrence of an overflow for each SSO that occurred during this reporting period. **Attachment D** details the County's inspection response to each of the overflow that occurred during the reporting period.

iv. SRRR Plan Implementation/Progress

The SRRR Plans contain numerous projects in a variety of locations and stages of planning, design and construction. **Attachment E** includes a list of each sewershed and a summary status of Plan implementation. The implementation of the recommended improvement projects is proceeding; however, acquisition of required rights-of-way and regulatory permits



may require a significant period of time thereby resulting in possible delay to complete the construction work.

The County's recommendations in some of the SRRR Plans for meter basins that exhibited excessive I/I and design-storm simulated model-predicted SSOs included the comprehensive rehabilitation of all pipe segments and manholes, increased hydraulic capacity and/or testing and repair of sewer house connections and laterals. Some of the recommended repairs were revised based on design preparation and review of improvement projects. Additionally, some miscellaneous sewer/manhole/lateral repairs that were included in the SRRR Plans may be revised based on a review of the original and updated inspection data.

v. FOG Program

The County has completed implementation of the FOG Program Modification Plan.

vi. SEP Status

Completed.

vii. Compliance Issues

In accordance with Paragraph 19, Item B.vii, the following is a summary of Consent Decree compliance issues.

- a. Consent Decree projects or requirements certified as complete during the reporting period:

None.

- b. Consent Decree requirements due to be completed during the reporting period, but not completed:

None.

- c. Problems that may prevent the County from meeting future Consent Decree compliance deadlines:

Blenhurst Pump Station Rehabilitation

On November 15, 2019, the County submitted a Potential Delay Notification for completing the improvements to the Blenhurst Pump Station.

Delmar SRRR Plan

On November 22, 2019 the County submitted a potential delay notification for the Glen Echo Relief Sewer Project.

Dundalk SRRR Plan

On November 22, 2019 the County submitted a potential delay notification for the Dundalk Sewer Rehabilitation Project.



East Point SRRR Plan

On November 26, 2019 the County submitted a potential delay notification for the East Point Force Main Replacement Project.

Essex SRRR Plan

On December 10, 2019 the County submitted a potential delay notification for the Essex Force Main Replacement Project.

Long Quarter SRRR Plan

On November 27, 2019 the County submitted a potential delay notification for the Long Quarter Force Main Replacement Project.

Orems SRRR Plan

On November 22, 2019 the County submitted a potential delay notification for the Orems Basin 03 Relief Sewer Project.

Elimination of Non-Pump Station SSO Structures 22, 23A, 23B, 24

On 9/3/2019, the County issued the notice to proceed for the Phase I construction project. The County will submit a second SSO elimination time extension when a date has been identified. Right-of-way and environmental permits are required for Phase II construction.

Elimination of Non-Pump Station SSO Structures 41 and 129

On 10/3/2019 the County awarded the construction project. The County will submit a second SSO elimination time extension when a date has been identified.

Elimination of Non-Pump Station SSO Structures 113, 116, 117 and 118

The County continues to meet and coordinate with Baltimore City to complete the needed hydraulic improvements to the downstream collection system, which is maintained by the City.

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete.

Thomas Kiefer, PE
Chief, Bureau of Engineering and Construction

Control Document No. 292



Attachment A - Discharges from Overflow Structures



Pump Station Overflow Structures

Pump Station Name	Oak Forest
Address	407 Seminole Avenue
Date Of Discharge	10/31/2019
Duration Of Overflow	44 Min.
Date Of Relevant Weather Conditions	10/31/2019
Description Of Relevant Weather Conditions	Rain
Gallons Discharged	670
Receiving Waters	Tributary to Patapsco River
Identified Cause	VFD mistakenly set to 50 Hz. Pump was not able to run at full capacity.
Details Of Corrective Action Taken or Planned	VFD reset to 60 Hz.

Pump Station Name	Frederick Road
Address	1809 Frederick Road
Date Of Discharge	10/31/2019
Duration Of Overflow	40 Min.
Date Of Relevant Weather Conditions	10/31/2019
Description Of Relevant Weather Conditions	Rain
Gallons Discharged	18,156
Receiving Waters	Tributary to Patapsco River
Identified Cause	Heavy rains inundated wastewater collection system that caused high flows to the pump station.
Details Of Corrective Action Taken or Planned	Heavy rains subsided.

Pump Station Name	Frederick Road
Address	1809 Frederick Road
Date Of Discharge	11/5/2019
Duration Of Overflow	11 Hrs 15 Min.
Date Of Relevant Weather Conditions	11/5/2019
Description Of Relevant Weather Conditions	Rain
Gallons Discharged	125,856
Receiving Waters	Tributary to Patapsco River
Identified Cause	Check valve on Pump 3 stuck open due to debris. Force main drained back causing all pumps to lock out at the station.
Details Of Corrective Action Taken or Planned	Removed debris in the check valve.



Non-Pump Station Overflow Structures – Metered

Name	Southern Cross Drive
SSO ID	23A
Address	Southern Cross Drive & Parsons Avenue
Date of Discharge	10/27/2019
Duration of Overflow	3 Hrs. 20 Min.
Date of Relevant Weather Conditions	10/27/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	1,072
Receiving Waters	Gwynns Falls
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 9/3/2019, the County issued the notice to proceed for the Phase I construction project. The County will submit a second SSO elimination time extension when a date has been identified. Right-of-way and environmental permits are required for Phase II construction.

Name	Southern Cross
SSO ID	23B
Address	3909 Southern Cross Drive
Date of Discharge	10/27/2019
Duration of Overflow	3 Hrs. 46 Min.
Date of Relevant Weather Conditions	10/27/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	4,290
Receiving Waters	Gwynns Falls
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 9/3/2019, the County issued the notice to proceed for the Phase I construction project. The County will submit a second SSO elimination time extension when a date has been identified. Right-of-way and environmental permits are required for Phase II construction.

Name	Patterson Avenue
SSO ID	24
Address	3902 Patterson Avenue
Date of Discharge	10/27/2019
Duration of Overflow	42 Min.
Date of Relevant Weather Conditions	10/27/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	13,262
Receiving Waters	Gwynns Falls
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 9/3/2019, the County issued the notice to proceed for the Phase I construction project. The County will submit a second SSO elimination time extension when a date has been identified. Right-of-way and environmental permits are required for Phase II construction.



Name	Marnat Road
SSO ID	113
Address	Marnat Road & Hatton Road
Date of Discharge	10/27/2019
Duration of Overflow	47 Min.
Date of Relevant Weather Conditions	10/27/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	1,842
Receiving Waters	Jones Falls
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	City hydraulic improvements needed to eliminate overflow. County is coordinating with the City to complete needed improvements.

Name	Alter Road
SSO ID	22
Address	Alter Street & Southern Cross Drive
Date Of Discharge	10/31/2019 – 11/1/2019
Duration Of Overflow	3 Hrs. 16 Min.
Date Of Relevant Weather Conditions	10/31/2019 – 11/1/2019
Description Of Relevant Weather Conditions	Rain
Net Gallons Discharged	33,344
Receiving Waters	Maidens Choice Creek
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 9/3/2019, the County issued the notice to proceed for the Phase I construction project. The County will submit a second SSO elimination time extension when a date has been identified. Right-of-way and environmental permits are required for Phase II construction.

Name	Southern Cross Drive
SSO ID	23A
Address	Southern Cross Drive & Parsons Avenue
Date of Discharge	10/31/2019 – 11/1/2019
Duration of Overflow	4 Hrs. 51 Min.
Date of Relevant Weather Conditions	10/31/2019 – 11/1/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	42,951
Receiving Waters	Gwynns Falls
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 9/3/2019, the County issued the notice to proceed for the Phase I construction project. The County will submit a second SSO elimination time extension when a date has been identified. Right-of-way and environmental permits are required for Phase II construction.



Name	Southern Cross
SSO ID	23B
Address	3909 Southern Cross Drive
Date of Discharge	10/31/2019 – 11/1/2019
Duration of Overflow	5 Hrs. 0 Min.
Date of Relevant Weather Conditions	10/31/2019 – 11/1/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	49,502
Receiving Waters	Gwynns Falls
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 9/3/2019, the County issued the notice to proceed for the Phase I construction project. The County will submit a second SSO elimination time extension when a date has been identified. Right-of-way and environmental permits are required for Phase II construction.

Name	Patterson Avenue
SSO ID	24
Address	3902 Patterson Avenue
Date of Discharge	10/31/2019 – 11/1/2019
Duration of Overflow	4 Hrs. 45 Min.
Date of Relevant Weather Conditions	10/31/2019 – 11/1/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	200,675
Receiving Waters	Gwynns Falls
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 9/3/2019, the County issued the notice to proceed for the Phase I construction project. The County will submit a second SSO elimination time extension when a date has been identified. Right-of-way and environmental permits are required for Phase II construction.

Name	Aiken Avenue
SSO ID	41
Address	7829 Aiken Avenue & Taylor Avenue
Date of Discharge	10/31/2019
Duration of Overflow	1 Hrs. 39 Min.
Date of Relevant Weather Conditions	10/31/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	22,539
Receiving Waters	Herring Run
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 10/3/2019 the County awarded the construction project. The County will submit a second SSO elimination time extension when a date has been identified.



Name	Queen Anne Drive
SSO ID	129
Address	Queen Anne Drive & Hillcrest Avenue
Date of Discharge	10/31/2019
Duration of Overflow	2 Hrs. 9 Min.
Date of Relevant Weather Conditions	10/31/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	34,760
Receiving Waters	Herring Run
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	On 10/3/2019 the County awarded the construction project. The County will submit a second SSO elimination time extension when a date has been identified.

Name	Marnat Road
SSO ID	113
Address	Marnat Road & Hatton Road
Date of Discharge	10/31/2019
Duration of Overflow	2 Hrs. 40 Min.
Date of Relevant Weather Conditions	10/31/2019
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	27,037
Receiving Waters	Jones Falls
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	The County continues to meet and coordinate with Baltimore City to complete the needed hydraulic improvements to the downstream collection system, which is maintained by the City.

Name	Overbrook Road
SSO ID	118
Address	Overbrook Road & Medwick Garth
Date Of Discharge	10/31/2019 – 11/1/2019
Duration Of Overflow	2 Hrs. 36 Min.
Date Of Relevant Weather Conditions	10/31/2019 – 11/1/2019
Description Of Relevant Weather Conditions	Rain
Net Gallons Discharged	120,256
Receiving Waters	Maidens Choice Creek
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	The County continues to meet and coordinate with Baltimore City to complete the needed hydraulic improvements to the downstream collection system, which is maintained by the City.



Attachment A1: Summary of Non-Pumping Station Overflow Structure Monitoring

Date of Rain Event		10/27/2019	10/31/2019 – 11/1/2019
Rain (inches)		1.96	1.83
SSO Name	SSO ID		
Alter Road	22		33,344
Southern Cross Drive	23A	1,072	42,951
Southern Cross	23B	4,290	49,502
Patterson Avenue	24	13,262	200,675
Aiken Avenue	41		22,539
Queen Anne Drive	129		34,760
Overbrook Road & Medwick Garth	118		120,256
Marnat Road	113	1,842	27,037



Attachment B - Construction Projects Status



Non-Pump Station SSO Structures

Project Name	Date of Construction Notice to Proceed	Sewershed Name	Consent Decree SSO Elimination Deadline	SSO Eliminated	Status
Powder Mill Interceptor Relief Sewer Phase I – SXO 18180 (SSOs 22, 23A, 23B, 24)	9/3/2019	Gwynns Falls	TBD	No	EPA approved the County's SSO extension of time request on 4/16/2018
Powder Mill Interceptor Relief Sewer Phase II (SSOs 22, 23A, 23B, 24)	-	Gwynns Falls	TBD	No	This project requires Right of Entry and permit approval from Baltimore City Department of Recreation and Parks. EPA approved the County's SSO extension of time request on 4/16/2018
East Branch Herring Run Relief Sewer (SSO 41 & 129)	1/21/2020	Herring Run	TBD	No	EPA approved the County's SSO extension of time request on 4/16/2018



Pump Station Rehabilitation, Repair and Replacement

Project Name	Consent Decree Deadline	Anticipated Meeting CD Deadline	Comments
Harewood Park	3/20/2020	Yes	Construction
Campus Hill	3/20/2020	Yes	Construction
Lodge Forest Manor	3/20/2020	Yes	Design. Potential delay notification submitted on 11/9/2017.
Stansbury Manor	3/20/2020	Yes	Design. Potential delay notification submitted on 11/9/2017.
Blenhurst	3/20/2020	No	Construction. Potential delay notification submitted on 11/15/2019.
Rosebank	3/20/2020	Yes	Construction
Beachwood Road	3/20/2020	Yes	Construction. Time extension request submitted 5/7/2019.
Oliver Beach	3/20/2020	Yes	Construction. Potential delay notification submitted on 9/17/2018.
Hyde Park	6/1/2021	Yes	Design
Bauernschmidt Manor	6/1/2021	Yes	Construction
Turkey Point	6/1/2022	Yes	Design
Millers Island	6/1/2022	Yes	Design
Corsica	6/1/2023	Yes	Design
Fort Howard	6/1/2023	Yes	Design
Pennwood Terrace	6/1/2023	Yes	Design



Attachment C - Collection System Inspection Status



Paragraph 15.B.i (b)
 Completion scheduled for September 20, 2020
 Currently On-Schedule

Miles Remaining Beginning of Quarter	Miles Inspected and/or Attempted this Quarter	Miles Attempted but not Completed to Date	Miles Remaining
4.1	2.0	2.0	2.1
Appurtenances to be Inspected Beginning of Quarter	Appurtenances Inspected and/or Attempted this Quarter	Appurtenances Attempted but not Completed to Date	Appurtenances Remaining
136	97	40	19

Note: All values are based on the current version of the County's GIS



Attachment D - CCTV in Response to an SSO



Date of SSO	Location	CCTV Inspection Date	Exemption
10/15/2019	4155 Glen Park Road	10/24/2019	
10/15/2019	6806 Bensel Avenue		A
10/27/2019	Southern Cross Drive & Parsons Avenue		D
10/27/2019	3909 Southern Cross Drive		D
10/27/2019	3902 Patterson Avenue		D
10/27/2019	Marnat Road & Hatton Road		D
10/29/2019	823 Scotts Hill Road	10/29/2019	
10/30/2019	104 Back River Neck Road		B
10/31/2019	Alter Street and Southern Cross Drive		D
10/31/2019	7829 Aiken Avenue & Taylor Avenue		D
10/31/2019	Marnat Road & Hatton Road		D
10/31/2019	Queen Anne Drive & Hillcrest Avenue		D
10/31/2019	Southern Cross Drive & Parsons Avenue		D
10/31/2019	3909 Southern Cross Drive		D
10/31/2019	3902 Patterson Avenue		D
10/31/2019	Overbrook Road and Medwick Garth		D
11/26/2019	4830 Butler Road	12/3/2019	
11/27/2019	8103 Beachwood Road	11/27/2019	
12/5/2019	8211 Fischer Road		B
12/7/2019	10620 Harford Road	12/9/2019	
12/18/2019	5415 Montbel Avenue	12/16/2019	
12/27/2019	5965 Schering Road	12/31/2019	

Allowable Exemptions:

- A. The cause of the SSO was a blockage in a County-owned lateral adjacent to the gravity line segment and the County cleans the County-owned lateral
- B. The cause of the SSO was a blockage in the gravity line segment and visible directly from the manhole
- C. The County has previously CCTV inspected the line segment(s) due to an earlier blockage and the County is in the process of developing or implementing corrective action
- D. The location is an identified overflow structure and is being monitored pursuant to Paragraph 7.C and the County is involved in a process designed to eliminate the overflow structure



Attachment E - Status of SRRR Plan Implementation



Sewershed	Consent Decree Deadline	On Schedule to Complete SRRR Plan Implementation
Bengies	9/29/2020	Yes. On 3/15/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Bird River	9/29/2020	Yes. On 3/15/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Bread & Cheese	9/29/2020	On 7/10/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Cockeysville	9/29/2020	Yes. On 3/15/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Dead Run	9/6/2017	Completed
Delmar	4/18/2022	Yes. On 11/22/2019 the County submitted a potential delay notification for a relief sewer project.
Duck Creek	4/18/2022	Yes
Dundalk	4/18/2022	Yes. On 11/22/2019 the County submitted a potential delay notification for a sewer structural repair and rehabilitation project.
East Point	4/18/2022	Yes. On 11/22/2019 the County submitted a potential delay notification for a force main replacement project.
Essex	4/18/2022	Yes. On 12/10/2019 the County submitted a potential delay notification for a force main replacement project.
Gray Manor	4/18/2022	Yes. On 6/19/2019 the County submitted a potential delay notification for a relief sewer project.
Gunpowder	4/18/2026	Yes
Gwynns Falls	9/6/2018	Completed; On 04/08/2016 and 01/23/2018, the County submitted potential delay notifications for a relief sewer and a structural rehabilitation project.
Herring Run	9/6/2018	Completed; On 11/03/2015, 08/15/2017 and 03/08/2018, the County submitted potential delay notifications for two relief sewers and a structural rehabilitation project.
Jones Falls	9/6/2019	Completed. On 11/17/2015 and 5/17/2018, the County submitted potential delay notifications for two sewer structural repair and rehabilitation projects. On 7/12/2019 the County submitted a time extension requests for the two delayed projects.
Long Quarter	4/18/2024	Yes. On 11/26/2019 the County submitted a potential delay notification for a force main replacement project.
Orems	9/29/2020	Yes. On 11/16/2018 the County submitted a potential delay notification for a force main replacement project. On 11/22/2019 the County submitted a potential delay notification for a relief sewer project.
Patapsco	9/6/2021	Yes. On 10/28/2018 and 4/22/2019 the County submitted a potential delay notifications for sewer structural repair and rehabilitation projects.
Redhouse Run	4/18/2024	Yes
Stemmers Run	9/6/2024	Yes
Texas	4/18/2022	On 7/10/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Tributary 26	2/11/2020	Completed



Sewershed	Consent Decree Deadline	On Schedule to Complete SRRR Plan Implementation
Tributary 27	9/6/2017	Completed
Tributary 43	2/11/2020	Completed
Tributary 48	9/6/2017	Completed
Tributary 78	2/11/2020	Completed
West Low Level	9/6/2017	Completed
Whitemarsh	4/18/2024	Yes

