

CITY OF BALTIMORE

CATHERINE E. PUGH, Mayor



DEPARTMENT OF PUBLIC WORKS

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July 5, 2017

VIA OVERNIGHT MAIL

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Reference DOJ Case No. 90-5-1-1-4402/1

Reference DOJ Case No. 90-5-1-1-4402/1

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**RE: United States, et al. v. Mayor and City Council of Baltimore
Civil Action No. JFM-02-1524
Calendar Quarterly Report No. 59
For Calendar Quarter Ending June 30, 2017**

Ladies and Gentlemen:

In the above referenced Consent Decree, the City of Baltimore agreed to submit a Calendar Quarterly Progress Report covering activities required by the Consent Decree. Included herewith is Calendar Quarterly Report No. 59, for the Calendar Quarter ending June 30, 2017.

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July 5, 2017
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We trust that you will agree that the City of Baltimore is in compliance with this requirement of the Consent Decree. Please notify us if you have any questions related to this item.

Sincerely,



James A. Price Jr.
Acting Bureau Head

JAP/ajd

Enclosures

cc: Rudolph Chow, P.E.
Paul Desantis, Esquire
Ms. Dawn Lettman
Thomas Ligan, Esquire
Azzam Ahmad
Mr. Mike Gallagher
Arthur Jones-Dove, P.E.
File

City of Baltimore Sanitary Sewer Overflow Consent Decree

Civil Action No. JFM-02-1524

Calendar Quarterly Report No. 59
For Calendar Quarter ending June 30, 2017

*Submitted:
July 31, 2017*


*Submitted To:
United States Environmental Protection Agency
United States Department of Justice
Maryland Department of the Environment*

*Prepared By:
City of Baltimore
Department of Public Works,
Bureau of Water and Wastewater*



Statement of Certification

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 submitted is, to the best of my knowledge and belief, true, accurate, and complete.

 7/5/17
James A. Price Jr.
Acting Bureau Head



Civil Action No. JFM-02-1524
Calendar Quarterly Report No. 59
For Calendar Quarter Ending June 30, 2017

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A. INTRODUCTION

This Calendar Quarterly Report is submitted pursuant to the requirements of a Consent Decree entered on September 30, 2002 in the United States District Court for the District of Maryland as part of the response to Civil Action No. JFM-02-1524. This Calendar Quarterly Report is intended to provide an update on the progress of remedial measures required by the Consent Decree and the status of various programs to be implemented.

The requirements for the Calendar Quarterly Report are specified in Paragraph 18 of the Consent Decree, which reads as follows:

“Beginning with the first full calendar quarter after the Date of Entry of the Consent Decree, Baltimore shall submit to EPA and MDE within thirty (30) days after the end of each calendar quarter until termination of this Consent Decree a Calendar Quarterly Progress Report (“Calendar Quarterly Report”) covering the subject of this Consent Decree. This Calendar Quarterly Report shall contain the following:

- i. Progress reports on the implementation of the requirements of Section VII (Remedial Measures) as described in Paragraphs 8 through 15;
- ii. A description of any problems anticipated with respect to meeting the requirements of Section VII (Remedial Measures) of this Consent Decree; and
- iii. A description of all environmentally beneficial projects and SEP implementation activity in accordance with Paragraphs 29-33 of the Consent Decree; and
- iv. Any such additional matters as Baltimore believes should be brought to the attention of EPA and MDE.”

It was noted that Paragraph 18 contained a typographical error. The Remedial Measures described in Paragraphs 8 through 15 comprise Section VI of the Consent Decree, and not Section VII. Accordingly, this Calendar Quarterly Report refers to Paragraphs 8 through 17 of the Consent Decree as Section VI.

B. PROGRESS OF IMPLEMENTATION OF SECTION VI REQUIREMENTS

For reference purposes, this Section B is organized so that the item numbers correspond directly to Paragraphs and subparagraphs in the Consent Decree.

Paragraph 8: Elimination of Sanitary Sewer Overflow and Combined Sewer Overflow Discharges

- A. General Requirements:** During the calendar quarter ending June 30, 2017, the City of Baltimore was in general compliance with the Clean Water Act and Title 9, Subtitle 3 of the Environment Article, Annotated Code of Maryland. Episodes of non-compliance include un-permitted sanitary sewer overflows (SSOs), as reported during the quarter in accordance with Paragraph 17 of the Consent Decree and as summarized in Appendix 5 herein.
- B. Construction Projects:** Appendix 1 to this Calendar Quarterly Report provides a status update for each of the construction projects listed in Appendix D of the Consent Decree.

1. Practical Completion

As design and construction progress, concerns and issues have arisen that may impact the schedule for some of the Paragraph 8 projects, concerns and issues are as follows:

Project No. 8: Stony Run Interceptor and Pumping Station: Due to significant public opposition to the proposed pumping station site in Wyman Park, additional pumping station locations were investigated. A new location at the Department of Public Works Solid Waste Site, near the intersection of Sisson Street and 29th Street had been selected and approved by MDE and EPA. To expedite the project, this project was split into 3 phases:

- SC 819 (Phase 1) is an upper portion of Stony Run interceptor and consists of rehabilitation, and partial replacement of pipelines and manholes located north of Wyndhurst Avenue. Practical completion of this project was complete as of October 14, 2006.
- SC 838 (Phase 2) is the middle portion of Stony Run interceptor and consists of rehabilitation and partial replacement of pipelines located between Cold Spring Lane and Wyndhurst Avenue. Practical completion of this project was complete as of March 21, 2007.
- SC 839 and SC 847 (Phase 3) consist of 20 mgd pumping station, force main and gravity sewer. Due to delay in siting the pump station, the City has requested and MDE has approved a 6-month extension for the project advertisement and completion dates. Both SC 839 and SC 847 were advertised on June 16, 2006. For Contract SC 839, the city received only one bid 65% above the engineers estimate. The city rejected this bid and had determined that the compressed construction schedule of one year is the primary reason for the unusually high bid amount and lack of competitive bidding. The

City re-advertised Contract SC 839 on October 27, 2006 and anticipated that based on bids received in December, contract negotiations will begin. The City sent a letter on October 13, 2006 requesting an additional extension of fourteen (14) months to account for the additional time required for construction due to the increased scope of work. For SC 847 the city had awarded this contract to a successful bidder and the current duration was one year, however the full functionality and operation of the pumping station will depend on the progress of SC 839. Therefore, the City has requested to move the practical completion date for SC 839 and SC 847 from December 31, 2007 to February 28, 2009. A response from MDE was received on February 26, 2007, granting the requested extension. The Practical Completion deadline for both of these projects is now February 28, 2009. The extension letter request for the extension of SC 847 to May 31, 2009 was granted by EPA on June 22, 2009 and MDE on April 15, 2010. Practical Completion was achieved on May 29, 2009, for lower portion of project SC 839RR – Stony Run Interceptor. Conditional acceptance for SC 839RR was achieved on July 21, 2011.

2. SSO Structure Elimination

SSO No. 132 is located at intersection of Hilton Street & Springdale Ave

SSO No. 134 is located near the intersection of Liberty Heights and Elamont Road.

SSO No. 135 is located one block away from SSO No. 134, at the intersection of Liberty Heights and Dennlyn Road.

SSO No. 137 is located near the intersection of Shannon Drive and Brehms Lane.

SSO No. 138 is located at the intersection of Cold Spring Lane & Ayrdale Ave.

SSO No. 139 is located at the intersection of W Garrison Ave and Queensberry Ave.

It was proposed to monitor SSO No. 132 for a twelve-month period ending September 18, 2004. During the calendar quarter ending September 30, 2005, activity was observed at this SSO structure on March 23, and March 28, 2005.

The City of Baltimore eliminated SSO No. 33 & No. 34 on December 10, 2008 and December 23, respectively. The City of Baltimore eliminated SSO No. 136 on January 21, 2009.

The City is working on addressing these SSOs. The City has engaged the services of an engineering firm to investigate and evaluate the collection system adjacent to SSO Nos. 132, 134 and 135. The design to eliminate these SSOs is complete and the contract was advertised on February 10, 2012, bids were opened on April 4, 2012, contract was awarded on September 26, 2012, and Notice to Proceed was issued on February 4, 2013. Due to construction and bypass activity at SSO #132 (site P8_10_132S), SSO #134 (site HL32) and SSO #135 (site P8_10_135S) these meters were removed on 2/20/14, 8/17/13 and 6/13/14 and, respectively. These meters were re-installed on 9/11/14 after construction activities were concluded. SSO #132 and #134 were eliminated and permanently sealed on June 27, 2016.

SSO 150 located at the intersection of N Calvert St & Chancery Rd
SSO 151 located in the proximity of 4210 Curtis Ave
SSO 152 located at the intersection of N Charles St & W Lanvale St
SSO 153 located at the intersection of Fernhill Ave & Hillsdale Rd
SSO 154 located at N. Charles Street & W. Lafayette Avenue
SSO 155 located at 3404 Glen Avenue
SSO 156 located at Charing Cross Road & Greenwich Avenue

Flow meter installation at SSO 150-154 was completed in June 2015. The collected data in conjunction with the hydraulic model will determine if they can be sealed. SSO 156, a new SSO structure, was first discovered on June 16, 2017. Flow meters have been installed at SSO 155 & 156 and the City will monitor these locations.

The City will continue to monitor and evaluate activity at these SSO structures and will continue to keep EPA and MDE advised of progress in future Calendar Quarterly Reports.

Other than the concerns and issues noted here, all Paragraph 8 projects are complete. The milestone dates specified in Appendix D of the Consent Decree have all been met.

C. Separate Sanitary Sewer Characterization Report: This requirement has been completed.

D. Elimination of Combined Sewer Overflows:

Walbrook: This project has been completed.

Forest Park: During the calendar quarter ending September 30, 2006, combined sewer overflow (CSO) No. 13P was eliminated and the City reported that the Combined Sewer System has been separated and all CSO structures have been eliminated in the Forest Park neighborhood.

On October 11, 2006, the City sent a letter to MDE/EPA that included a report dated March 2006 entitled "Confirmatory Testing for Final Separation of Combined Sewer System in Forest Park Area". The letter also documented the elimination dates for the CSO structures associated with this area, including 10P, 11P, 13P, 18P, 19P, 21P, and 31P. Lastly, the City requested that post-construction monitoring be waived for these CSO structures since the eliminations were performed.

MDE responded to this letter on December 11, 2006, and approved the waiving of post monitoring for the CSO structures, with the exception of 13P. For this structure 13P, MDE noted that a site inspection was performed by MDE on October 19, 2006 that revealed the discharge of raw sewage. Therefore, MDE disapproved the waiving of the post-monitoring requirements at this location. On January 16, 2007, the City submitted a letter of response that included additional sampling results indicating that the high bacterial levels are due to stagnant pooling water at the outfall in lieu of a sewage discharge. It is therefore believed by the City that post-monitoring can be waived at overflow structure 13P. EPA requested that the City provide additional clarification regarding CSO 13P. Sampling was carried out on February 8, 2012 and a report and laboratory results were sent to EPA on March 21, 2012.

E. Flow and Rainfall Monitoring for Paragraph 8 Construction Projects:

As of June 30, 2017, no new flow meters were installed as indicated in Table 8-1 specifically for Paragraph 8 Projects.

Table 8-1: Flow Monitor Installations for Paragraph 8 Projects

Consent Decree Project ID No.	ADS Project ID No.	Project	No. of Meters		
			April	May	June
7	4	Lower Jones Falls Interceptor	0	0	0
8	5	Stony Run Interceptor & P.S.	0	0	0
10	7	Greenmount Interceptor	0	0	0
Total			0	0	0

A summary of rainfall and flow monitoring data collected during March, April and May 2017 (the data reported lags by one month due to the 30-day lag time in delivery of the prior month's data), prepared by RJN/ADS Environmental Services is submitted on a compact disk in the inside of the back cover of this Calendar Quarterly Report. The ADS report includes:

- Meter location maps
- Meter site reports
- Rain gauge location maps
- Tabular flow monitoring data
- Tabular rain gauge data
- Depth and velocity scattergraph plots
- Flow and rainfall data in Excel format

All flow meters are ADS Model 4000 flow monitors. Each meter was calibrated by manually measuring depth and velocity to confirm that the flow meters are functioning properly. Multiple measurements were obtained for each flow meter. These measurements are shown on the depth-velocity scattergraphs provided for the flow monitoring sites.

F. Progress Reports:

Progress of work under Paragraph 8 is as reported herein.

Paragraph 9: Collection System Evaluation and Sewershed Plans

- A. The milestone dates for completion of the Sewershed Study and Plan for each of the City's eight sewersheds, as established by Paragraph 9.B of the Consent Decree, recognize that evaluation work will not begin in earnest until several years after the Date of Entry.

Sewershed Study and Plan: The City submitted Jones Falls, the first of the sewershed plans to MDE/EPA and DOJ on December 26, 2008 with an approach plan for prioritizing the capital improvements recommended by the Jones Falls team and the other sewersheds. MDE/EPA submitted comments on the Jones Falls Report in a letter dated June 4, 2009. The City responded within 30 days. The Herring Run sewershed plan was submitted to MDE/EPA and DOJ on June 26, 2009. The Low Level sewershed plan was submitted to MDE/EPA and DOJ on December 22, 2009. The High Level sewershed plan was submitted to MDE/EPA and DOJ on December 21, 2009. The Patapsco, Dundalk, Outfall and Gwynns Falls sewershed plan were submitted to MDE, EPA and DOJ on June 15, 2010, June 18, 2010, June 25, 2010 and June 28, 2010, respectively. All eight (8) Sewershed Plans/Reports were submitted by the milestone dates established in the Consent Decree.

In the Planning phase the Sewershed teams have completed quality control and the quantities below are provided as final inspection quantities.

- A total of 33,227 manholes were inspected during Paragraph 9 sewershed studies
- A total of 5,994,171 linear feet of sewers were CCTV inspected during Paragraph 9 sewershed studies (~ 94%).

Any remaining assets will be inspected during Paragraph 9 rehabilitation projects.

- B. **The Sewershed Study and Plan Elements:** The Plan Elements in the Consent Decree are to be followed for each sewershed.
- C. **Collection System Inspections:** Please refer to Section A above for a summary of final inspection quantities.

In accordance with Paragraph 8 and 9 of the Consent Decree, many collection system components have been replaced, rehabilitated, and slip-lined. The City submitted to the EPA/MDE, under Paragraph 9 D (vii), a request for wavier of the Paragraph 9.D inspection requirements for these system components. In a letter dated September 04, 2007, MDE approved the request to waive inspection of selected portions of the collection system.

- D. **Infiltration and Inflow ("I/I") Evaluation:** Flow monitoring began on May 09, 2006. As of June 30, 2017, the flow monitoring continues at 8 meter locations throughout the City, including the long term monitoring program.
- E. **Long-Term Capacity/Peak Flow Management:** During the calendar quarter ending June 30, 2017, there was no capacity/flow management analysis activity related to the

Sewershed Studies and Plans.

F. Sewershed Study and Plan(s) Approval and Implementation:

Sewershed Study and Plan(s):

All eight (8) Sewershed Plans/Reports have been submitted by the milestone dates established in the Consent Decree.

Approval

The plans have been submitted. The City provided a technical workshop on February 26, 2009, addressed comments sent on June 4, 2009 for Jones Falls and met with MDE and EPA on May 3, 2010 to provide further justification on the use of the 2-year 24 hr design storm. In addition to other items such as an affordability analysis, MDE and EPA also requested that the City consider levels of improvement that would minimize SSOs in sensitive areas. Based on EPA's definition of "sensitive areas" received on June 28, 2010, the City evaluated an approach that includes the sewershed studies recommended improvements and accounts for higher levels of controls for minimizing SSOs in identified sensitive areas. The City received a letter from United States Environmental Protection Agency (EPA) dated February 10, 2011, stating that it has reviewed the Final Sewershed Plans for Jones Falls, Herring Run, and High Level. Based on its review has concluded that after the City implements the proposed improvements (2-year 24-hour design storm) a significant number of overflows will remain during greater storm events, including 5-year and 10-year 24-hour storm events. Therefore, EPA cannot approve these sewershed plans as submitted because the recommended improvements fall short from the goal of the CD in ensuring that Baltimore's sewage collection system does not cause or contribute to SSOs.

EPA's response provides minimal direction on how the City should proceed with revising the plans. Therefore the City met with EPA and MDE on June 02, 2011, to better understand their expectations. During this meeting, the City presented a revised approach utilizing 64 years of historic rainfall data for determining the appropriate level of protection to be utilized as the basis of design for system improvements to reduce the number of SSOs. Based upon this meeting, EPA and MDE requested further clarification of the proposed methodology. The City submitted a white paper outlining the Continuous Simulation Methodology on June 30, 2011.

On July 8, 2011, representatives from EPA, MDE and the City participated in a conference call and the City answered EPA and MDE's questions regarding the white paper and the continuous simulation methodology. The City sent a follow-up letter to EPA and MDE on July 22, 2011 which further addressed EPA and MDE's questions. On August 29, 2011, EPA submitted additional comments and questions to the City and MDE. EPA and the City participated in a second conference call on August 31, 2011 during which the City responded to EPA's questions.

In a letter dated November 22, 2011, EPA requested that the City, simultaneously submit a proposed plan of improvements based on the continuous simulation approach in addition to a revised implementation plan based on a 10-year, 24 hour design storm

by the end of 2011. The City submitted the requested information to EPA and MDE on December 30, 2011. The City received comments from EPA on the continuous simulation report on March 6, 2012 and responded in a letter dated March 22, 2012. EPA, MDE and the City met on March 8, 2012 to discuss on-going consent decree activities, the appropriate level of protection and modification to the compliance schedule. The EPA, MDE, and the City all agreed that starting with a baseline 5 year level of protection (LOP) to be augmented with greater protection in some areas is the right approach. It was that a series of technical workshops would be coordinated to develop the criteria to be used in selecting the appropriate LOP. The first of these technical workshops was held on March 26, 2012, with representatives of the City, EPA Region 3 and MDE with other technical workshops to follow. During the workshop, EPA and MDE had some questions on the hybrid approach. The City provided the necessary clarification in a letter dated April 13, 2012.

On May 10, 2012, via e-mail, the City received preliminary guidance from EPA Region 3 on behalf of both EPA and MDE on the proposed continuous simulation methodology to address SSOs as follows:

1. Baltimore will submit a continuous simulation study and plan for each sewershed in its collection system to EPA and MDE by December 2012. Baltimore shall evaluate and propose hydraulic and capacity related improvements necessary to achieve a 5-year and 10-year SSO Level of Protection (LOP).
2. The decision on how to comply with the CD will remain with Baltimore. Based on modeling provided to date, the Agencies will not accept anything less than a 5-year LOP. However, where the calibrated modeling shows that there are remaining overflows, Baltimore will prioritize these overflows based on volume and develop a plan that will achieve a LOP necessary to meet CD requirements. This plan may include up to a 15-year LOP in some areas. These areas prioritized by volume will be addressed prior to the post construction monitoring phase."

EPA and MDE have indicated that they would be meeting in the near future to discuss the details associated with any proposed modifications to the consent decree and that a letter would be forthcoming once those details have been agreed to. The City submitted a letter dated, June 8th, 2012, to EPA and MDE acknowledging receipt of their e-mail on May 10. Further, the City requested a meeting to discuss the schedule, clarification regarding EPA's intentions, and regular coordination moving forward. To date the City still awaits a response from EPA and MDE. By letter dated September 10, 2012, the U.S. Department of Justice provided a proposal to modify the CD, extending the compliance deadline and addressing other issues.

On October 19, 2012, the EPA sent a letter to the City that included comments on the Integrated Planning Framework (IPF) presentation conducted by the City on September 24, 2012. On December 7, 2012, the City sent a letter to the Regulators regarding among other things the Sewershed Report Revisions and Integrated Planning. The City submitted the Sewershed Study and Plan Amendment in December 28, 2012.

The City met with EPA and MDE on January 31, 2013, to further discuss the revised Sewershed Report Revisions and Integrated Planning. Based upon this meeting, the

City prepared a document called Phase 1 Adaptive Management Technical Memorandum (TM) that was submitted to EPA and MDE on February 28, 2013, detailing proposed projects, costs, estimated benefits and time frames for the first phase of the adaptive management approach.

The City received comments from EPA regarding the Technical Memorandum (TM) on March 12, 2013. The City responded to the comments in a letter dated April 11, 2013.

On November 1, 2013, the City received a response from the Regulators to the June 28, 2013, City letter regarding the time line for completion of Phase 2 Consent Decree work. The Regulators recognized the ongoing efforts by the City and indicated that they have no objection to the implementation of a refined version of the IPF and a two-phased adaptive management approach to complete the structural and hydraulic rehab under the Consent Decree. The Regulators also pointed out that a court approval of an amended Consent order is required if any deadlines are to be modified. The City responded to the November 1, 2013 correspondence in a letter dated December 16, 2013 and met with EPA, DOJ and MDE on March 27, 2014 to provide a progress update on the Consent Decree. The City followed up with a letter dated May 12, 2014, to the Regulators highlighting the two phased adaptive management approach and re-iterating the City's willingness and commitment to move forward with the Consent Decree modification. On May 12, 2014 the City provided a response based on questions raised by EPA and MDE during the progress meeting on March 27, 2014. An additional follow-up conversation between EPA and the City on June 4, 2014 resulted in the Phase 1 Adaptive Management Contract Summary which was submitted to EPA on June 27, 2014.

The City of Baltimore received a letter dated June 11, 2015, from the Department of Justice including proposed modifications to the City of Baltimore Consent Decree. Negotiations between the City and the Regulators on the modifications resulted in the United States Department of Justice lodging proposed modifications on June 1, 2016. The proposed modification establishes additional control measures, and provides more transparency to the public, as well as new interim milestones for completion of phase 1 and 2 projects, and a 2 year monitoring period before a final closure report is submitted by June 2033. The proposed modification will be open for public comment and requires court approval since it changes the terms and schedule of the original consent decree. The public will have a 60-day period to provide comments on the consent decree modification. All comments will be considered before the modification can be finalized by the court. The comment period is over and negotiations are proceeding on CD modifications.

Implementation

The sewershed studies and the system-wide hydraulic model clearly demonstrate how the sewage flows generated in the County will impact the recommended improvements within the City. Unfortunately, the timing of the City's and County's Consent Decrees limits the ability to best represent the planned improvements in the County. More importantly, County flows could be significant and could render a number of the recommended hydraulic improvements ineffective in eliminating SSOs. Conversely, we understand that the County is planning to reduce wet-weather flows which could result

in over-sized hydraulic improvement projects and excessive costs for our downstream facilities. Since an estimate of the reduction in wet-weather flows from the County is not available at this time, the City cannot model this benefit. Therefore, we believe that implementing hydraulic improvements in the sewersheds that are impacted by County flows would be premature, may not result in the most fiscally responsible approach for the City, and may not achieve the Consent Decree goal of eliminating SSO's.

The Final Sewershed Plans as submitted outlined how the City plans to implement all of the identified structural repairs and hydraulic improvement rehabilitation projects by January 1, 2016. However, the City believes this project scheduling ignores the inherent problem of lack of reliable Baltimore County hydraulic flow data crucial to five (5) of the City's sewersheds. The remaining three (3) sewersheds have no or minimal impacts from County flow. In addition to flow impacts from the County, the February 10, 2011, letter does not provide clear guidance for the City to evaluate all projects previously identified in the final sewershed plans. However, the City recognizes its responsibility to comply with the Clean Water Act and the Consent Decree, thus, the City is in good faith proceeding with some O&M related projects. These projects include designing other structural defect and hydraulic projects that will improve management of the collection system such as, cleaning and CIPP lining, point repairs, manhole rehabilitation, etc.

The City plans on advancing executable projects that are not impacted by the design storm selection while the City and MDE/EPA determine how best to address the misaligned Baltimore County Consent Decree data and the appropriate level of protection selection approach for Baltimore City. The City will monitor the collection system and calibrate the model, perform additional hydraulic simulations and assess the impact of County flows on the City's collection system, and determine the effectiveness of the selected construction projects and the effectiveness of projects implemented by the County. Doing so will allow the City to design and implement hydraulic improvements that more precisely comply with the intent of the Consent Decree, which is the elimination of SSOs. Appendix 2 of this Calendar Quarterly Report provides a status update for each of the construction projects being carried out under Paragraph 9 of the Consent Decree. The City will continue to coordinate with MDE and EPA to address the aforementioned issues and will revise the sewershed planning recommendations accordingly.

G. Progress Reports: Progress of work under Paragraph 9 is as reported herein.

Paragraph 10: Illegal Sewer Connections

A. Illegal Private Connections: During the calendar quarter ending June 30, 2017 Baltimore further addressed the list of suspected illegal connections to the collection system known to the City. The City had previously initiated enforcement actions for 14 suspected illegal connections by notifying the respective property owners of the suspected illegal connections and actions to be taken, as required by Paragraph 10.A of the Consent Decree. In accordance with the City's enforcement plan, staff of Housing and Community Development (HCD) inspected these 14 properties and determined that two were not illegal connections, ten required dye/smoke testing for confirmation, and

two required further evaluation. The City performed dye testing and determined that only 5 are illegal connections. Furthermore, the City has identified and confirmed 33 additional properties within the Western Run Sewershed with potential illegal storm water connections to the sanitary system.

The City has further researched the 38 illegal connections documented in the past Quarterly Reports and has determined that the results of the testing performed to date cannot differentiate between an illegal connection or a privately-owned portion of a customer service connection lateral. Dye testing performed did prove that sources of inflow are connected to the sewer; however, it was not determined whether the connections were via direct connections to the sewer pipe or via the privately owned portion of the lateral. As such, the City should not have positively identified these as illegal connections and requests approval to remove the 38 connections from the list in Appendix 3 until further investigation can be performed. In February 2010, the City completed its illegal connections investigations in the Jones Falls Sewershed, including the 38 potential connections in the Western Run Area previously provided in Appendix 3, plus an additional 25 as identified in the Jones Falls Collection System Sewershed Study and Plan, utilizing dye-testing, smoke testing along with CCTV inspections. Based upon these investigations out of the 63 previously suspected illegal connections, only two illegal connections were confirmed. These locations are 6309 Greenspring Ave and 4424 Marble Hall Rd.

6309 Greenspring Ave: A letter was sent to the property owner on August 08, 2011, and a follow up letter was sent on January 5, 2012. The second letter was returned unclaimed. Dye testing confirmed the location is abated.

4424 Marble Hall Road: On August 11, 2008 while performing dye testing as part of their field investigations, the Herring Run Sewershed team identified an illegal sewer connection at 4424 Marble Hall Road. Once an illegal connection is identified, the approved Illegal Connection Enforcement and Implementation Plan will be adhered to. This illegal connection has been found to be located on private property. The City has contacted its Housing Department (HCD) to send the owner a notice to eliminate this illegal connection. Additional dye-testing was carried out in March 2011 to satisfy HCD requirements and a letter was sent to HCD on May 25, 2011, for further action. A Violation Notice was issued in July 2011. A meeting was held on July 28, 2011, with Marble Hall Apartment management to discuss the progress of eliminating the illegal connection. Per the management of the apartment complex, the connection was re-routed in August 2011. Follow up testing was carried out in September which indicated that the fix did not prevent storm water from getting into the sanitary sewers. The City attempted to coordinate with the property owner to fix the problem permanently but the property owner is not responsive. This location has been referred to the Code Enforcement Legal Section of HCD (ID 28567). The violation has been corrected. A City representative visited the site and conducted visual inspection and dye test on March 11, 2013, to confirm. This location is closed.

5207 Roland Avenue: CCTV inspection and dye testing revealed the existence of a direct connection from the downspout to an unmapped sanitary manhole. A letter was sent to the owner on January 3, 2017. This location has been abated.

The City plans to perform supplemental investigation as part of the Paragraph 9 Sewershed Studies. Under these studies, each of these connections and any additional connections will be investigated and a distinction will be made between the two types of connections as noted herein.

- B. Updated List of Illegal Connections:** Appendix 3 contains the updated list of known illegal connections.
- C. Illegal Connection Enforcement and Implementation Plan:** This requirement has been completed as reported in Quarterly Report No. 7.
- D.** In a letter dated May 05, 2003, MDE stated that they had reviewed the draft plan for implementation and enforcement with regard to illegal connections and found it to be acceptable. As requested by MDE, the City is considering the merits of adding a provision to the Plan that would enable the City Department of Public Works to actually do disconnections themselves and bill people for the materials and labor as a last resort if they have a situation where flows may cause a SSO and there is no cooperation from the property owner. To date, the need for this has not occurred. EPA in its letter dated January 12, 2005 has approved the Illegal Sewer Connection Detection and Enforcement Plan.
- E.** Progress of work under Paragraph 10 is as reported herein.
- F. Privately-Owned Portion of a Customer Service Connection Lateral:** During the calendar quarter ending June 30, 2017, no privately-owned portion of a customer service connection was identified as a source of I/I that causes or contributes to an overflow from the collection system. During this same quarter, no owners of such laterals were notified of the need to repair, rehabilitate, replace or terminate their laterals, and no enforcement actions in regard to such laterals were pending.

Paragraph 11: Pumping Station Inspection, Rehabilitation, and Repair

- A. Pumping Station Rehabilitation and Repair:** As reported in Quarterly report No. 8, all pumping station rehabilitation projects are complete.
- B. Pumping Station Inspection Procedures:** During the calendar quarter ending June 30, 2017, Baltimore inspected each of the eight pumping stations at least twice daily in accordance with Paragraph 11.B. All inspections were conducted in accordance with the inspection checklist attached as Appendix F to the Consent Decree, and completed inspection checklists are being maintained. All deficiencies noted during inspections were corrected within eight hours, or a work order was issued for correction. A listing of these work orders is attached as Appendix 4 to this Calendar Quarterly Report.

As reported in Quarterly Report No. 8, the project to upgrade the SCADA system for remote monitoring of pumping stations is completed. As such, the City of Baltimore

recognizes that once daily pumping station inspections will satisfy the requirements of the Consent Decree in accordance with Paragraph 11.B.i.

- C. **Pumping Station Remote Monitoring:** As of June 30, 2017, Baltimore continuously monitored pumping station data in accordance with Paragraph 11.C. of the Consent Decree. Alarm data was electronically archived.
- D. **Pumping Station Equipment Inventory:** As of June 30, 2017, all pumps, motors, bar screens, sensors and other critical components of Baltimore's pumping stations had been assigned unique equipment identification numbers. These numbers are recorded in the maintenance information management system ("MIMS") operated by Baltimore's Wastewater Facilities Division.
- E. **Pumping Station Preventative Maintenance:** The MIMS system operated by Baltimore's Wastewater Facilities Division automatically generates work orders for preventive maintenance at Baltimore's eight pumping stations, including standard operating procedures and parts lists. During the calendar quarter ending June 30-, 2017, the MIMS system was used to initiate and track scheduled preventive maintenance activities at the pumping stations.

During the calendar quarter ending December 31, 2002, a procedure for determining the cause of equipment and/or system failures was submitted as required by Paragraph 11.E.ii of the Consent Decree.

- F. **Pumping Station Operation and Maintenance Manuals:** As of June 30, 2017, operations and maintenance ("O&M") manuals for each of Baltimore's eight pumping stations were up to date, reflecting current station configuration, equipment, and characteristics. Operating parameter value ranges for each pumping station are available in the standard operating procedures ("SOPs") for that pumping station, which are posted at the pumping station and considered part of the O&M manual. Pump run times are kept in the log books at each pumping station.
- G. **Progress Reports:** Table 11-1 Summarizes the status of Baltimore's pumping station inspection and repair program during the calendar quarter ending June 30, 2017.

Table 11-1: Pumping Station Inspection and Repair Program

Pumping Station	Date of Inspection Completion	Date of Repair Completion	Repairs or Improvements	No. of Overflows
Eastern Avenue	All Pumping Stations inspected once per day throughout reporting period	See Appendix 4	See Appendix 4	None
Brooklyn				None
Dundalk				None
Jones Falls				None
Locust Point				None
Quad Avenue				None
McComas				None
Westport				None

Progress toward installation of the new SCADA system for remote monitoring of pumping stations is reported in item 11.C above

Paragraph 12: Collection and Transmission System Model

- A. The hydraulic modeling task for each sewershed will be performed utilizing the previously-selected hydraulic modeling software package: InfoWorks, marketed by Innowyze.
- B. **Model Elements:** The InfoWorks hydraulic modeling package is fully compliant with the requirements listed in Paragraph 12.B.i of the Consent Decree.
- C. **Model Project Approach Report:** This draft Report was submitted by the February 27, 2003 milestone date (150 days from the Date of Entry of the Consent Decree).
- D. EPA in its letter dated January 12, 2005 has approved the Model Project Approach Report. Baltimore has initiated implementation of the Model Project Approach Report. The first phase of model implementation, involving the migration of the four models developed as part of previous sewershed studies into an InfoWorks environment, is underway.
- E. **Model Certification:** Baltimore completed implementation of the Model for each sewershed on or before submission of the respective Sewershed Study and Plan required under Paragraph 9, and certified the model for each sewershed at that time.
- F. **Progress Report:** The City continued development and enhancement of the model during this Quarterly period.

Paragraph 13: Collection System Operation and Maintenance

- A. During the calendar quarter ending June 30, 2017, Baltimore continued to review current practices and procedures for collection system operation and maintenance, and to identify any changes that are needed for full compliance with the requirements of Paragraph 13.A. of the Consent Decree.
- B. The draft Operations and Maintenance Program Report required under Paragraph 13.B. of the Consent Decree was submitted in accordance with the milestone date of January 28, 2003 (120 days from the Date of Entry of the Consent Decree). MDE has indicated approval of this draft Report; EPA has also approved this report in its letter dated January 12, 2005.
- C. The City of Baltimore has implemented root and grease control programs after approval of chemical products that will be used as part of the cleaning for root and grease problem areas. Those pipes that are found to have root and grease problems are being treated under these programs and recorded/tracked in the GIS system.
- D. **Progress Reports:** The implementation period of the Operations and Maintenance Plan was completed in July 2006. The City submitted the Year 1 Annual Report on October 30, 2007, which covered the time period from July 2006 to July 2007. This report includes all elements as specified in this section of the Consent Decree. The Year 2 Annual Report was submitted on October 30, 2008 and it covers the time period from July 2008 to June 2009. The Year 3 Annual Report was submitted to EPA/MDE and DOJ on October 27, 2009. The City of Baltimore submitted the fourth annual progress report, on October 28, 2010. The fifth annual progress report was submitted to EPA/MDE on October 21, 2011. The sixth annual progress report was submitted on October 25, 2012. The seventh annual progress report was submitted on October 30, 2013. The eighth annual progress report was submitted on October 30, 2014. The ninth annual progress report was submitted on October 13, 2015. The tenth annual progress report was submitted on October 20, 2016.

Paragraph 14: Information Management System Program

- A. During the calendar quarter ending June 30, 2017, Baltimore continued to develop an information management system that will facilitate engineering analysis, evaluation, operation and maintenance of the collection system.
- B. **Geographic Information System:** On September 24, 2004, Baltimore demonstrated to EPA and MDE that the GIS is fully functioning and capable of displaying the information described in Paragraph 14.B.i through iv.
- C. **500 Scale Maps:** This requirement has been completed as reported in Quarterly Report No. 7.

- D. **Global Positioning System:** Water and Wastewater Maintenance crews are equipped with eight global positioning system ("GPS") units for use in collection system maintenance. A standard operating procedure (SOP) has been developed for the use of these units in locating collection system components. Maintenance crews have received appropriate training to use the GPS units.
- E. **Inventory of Collection System Components:** On September 24, 2004, Baltimore demonstrated to EPA and MDE that the GIS is fully functioning and capable of displaying the information described in Paragraph 14.E for each component.
- F. **Update Inventory of Collection System Components:** Within ninety (90) days of completion of inspection or rehabilitation of a collection system component as required under Paragraph 9, Baltimore will update the collection system inventory.
- G. **Progress Reports:** Development of the Baltimore collection system inventory database continued throughout the calendar quarter ending June 30, 2017. Most of the information currently in the database has been taken from record documents (for example, "as-built" drawings). This information will be verified and supplemented with field inspection data/information, and all required database fields are being populated, as part of the Sewershed Studies required under Paragraph 9 of the Consent Decree. Progress toward implementation of the GIS is reported in Item 14.B. above.

Paragraph 15: Valve Inspection and Repair Program

- A. All requirements of Paragraph 15 have been completed as summarized in Quarterly Report No. 7.
- B. **Progress Reports:** All requirements of Paragraph 15 have been completed as noted in Appendix H of Consent Decree.

Paragraph 16: Emergency Response Plan – Un-permitted Discharges

- A. **Emergency Response Plan (ERP):** Baltimore has developed and implemented an Emergency Response Plan for protection of public health and the environment in the event of an un-permitted discharge from the wastewater collection system.
- B. This requirement has been completed as reported in Quarterly Report No. 7.
- C. The EPA and MDE reviewed the draft Emergency Response Plan, and review comments were forwarded to Baltimore in a letter from EPA Region 3 received by Baltimore on July 23, 2002. The City of Baltimore revised the draft Emergency Response Plan accordingly by responding to the review comments within the 30-day requirement established by Paragraph 16.C. of the Consent Decree. MDE and EPA granted approval of the Plan in

separate letters received by Baltimore on May 5, 2003, and May 14, 2003, respectively. As of the June 13, 2003 milestone date for implementation of the Plan (30 days from final approval), 70 copies of the Plan had been produced and distributed to appropriate staff.

- D. Yearly Review and Update:** During the Calendar Quarter ending December 31, 2007, the City submitted the Yearly Update for 2007. The 2008 update was submitted on December 26, 2008. The City of Baltimore submitted updates to the ERP for 2009 on December 28, 2009. The 2010 annual updates to the ERP were submitted to the Regulators on December 28, 2010. The 2011 annual updates to the ERP were submitted to the Regulators on December 23, 2011. The 2012 annual updates to the ERP were submitted to the Regulators on December 21, 2012. The 2013 annual updates to the ERP were submitted to the Regulators on December 21, 2013. The 2014 annual updates to the ERP were submitted to the Regulators on December 18, 2014. The 2015 annual updates to the ERP were submitted to the Regulators on December 8, 2015. The 2016 annual updates to the ERP were submitted to the Regulators on December 19, 2016.
- E.** No portion of the Emergency Response Plan is in dispute at this time, and Baltimore has implemented the Plan in its entirety.

Paragraph 17: Reporting of Discharge Events and Recordkeeping

- A.** During the calendar quarter ending June 30, 2017, Baltimore has complied with the reporting requirements for overflows from the wastewater collection system as established by Paragraph 17 of the Consent Decree, by NPDES Permit Numbers 21555 and 21601, by State Discharge Permit Numbers 89-DP-0581 and 93-DP-0580A, and by State and Federal regulations. Oral notifications of overflows were made to MDE within 24 hours that Baltimore first became aware of them, and written reports were forwarded within 5 days. A summary of reported overflows for the calendar quarter ending June 30, 2017 is provided in Appendix 5.
- B.** During the calendar quarter ending June 30, 2017, Baltimore maintained a monitoring, sampling, analysis and reporting program to monitor water quality in Baltimore surface water. This program is administered by the Water Quality Monitoring & Investigations of the Office of Compliance and Laboratories in accordance with the requirements of the NPDES referenced in item 17.A. above. Monitoring results are published annually in Baltimore's Water Quality Report.
- C.** Records of all sanitary sewer overflows from Baltimore's collection system during the calendar quarter ending June 30, 2017, are being maintained in accordance with the requirements of Paragraph 17.C.
- D.** Copies of all written reports prepared pursuant to Paragraph 17 will be maintained for a minimum of 5 years, as required by Paragraph 17.D.

C. DESCRIPTION OF ANTICIPATED PROBLEMS WITH SECTION VI REQUIREMENTS

Issues and concerns related to Paragraph 8 construction projects are reported above in the Paragraph 8 section of this Calendar Quarterly Report. As of June 30, 2017, there were no other anticipated problems with Section VI requirements to report.

D. DESCRIPTION OF SEP ACTIVITIES

The study and 30% design for the Patapsco Wastewater Treatment Plant Enhanced Nutrient Removal (ENR) project was completed and submitted to Maryland Department of the Environment (MDE) and US EPA Region III (EPA) in September 2004. The MDE letter approving the 30% design for the Patapsco Wastewater Treatment Plant was on December 01, 2004. The EPA letter approving the 30% design was on received May 24, 2005.

The consultant agreement for the design of the Patapsco Wastewater Treatment Plant ENR project was approved by the City's Board of Estimates on December 21, 2005. SC 845R - BAF and tertiary PS bids were rejected and the project was re-advertised in December 2011 and bids were received on February 15, 2012. Notice to Proceed (NTP) for construction was issued on August 1, 2012 and the expected construction completion date was February 2015. Project is overdue, OEC is monitoring contractor progress and LD's are being assessed. SC 852R - Denitrification filters project was advertised on March 27, 2009 and the bids were rejected. This project was re-advertised on October 13, 2009 and the successful bidder was awarded the NTP on December 29, 2009 and the expected construction completion date was August 2013. Project is overdue, OEC is monitoring contractor progress and LD's are being assessed.

In addition, the City has selected the consultant for engineering services for SC 855 - ENR Modifications to the Existing Facilities at the Patapsco Wastewater Treatment Plant. This contract was advertised on April 30, 2010, and bids were due on December 31, 2010. The construction NTP was issued on February 22, 2011. This project is completed.

Contract for the Improvements to the Headworks and Wet Weather Flow Equalization at Back River WWTP Project SC 918H was re-advertised, interviews occurred on March 15, 2016 and selection of CMaR team occurred on May 4, 2016. NTP was issued on July 21, 2016. SC 918H is in the pre-construction phase. Project SC 918S – Site work and relocation of the County Force main was bid on February 5, 2016 and NTP was issued on July 22, 2016. SC 918S is under construction.

E. ADDITIONAL MATTERS FOR THE ATTENTION OF THE EPA AND MDE

As of the calendar quarter ending June 30, 2017 the City of Baltimore has updated the Sanitary Discharges of Unknown Origin (SDUO) tracking sheet to the Quarterly Report per the requirements of the policy letter by EPA and MDE dated March 31, 2009. The details of these sites are located in the SDUO tracking sheets in Appendix 5.

The City provided a response to MDE/EPA and requested additional time to research and develop possible methods of quantifying SDUOs in a letter dated April 30, 2009. The City submitted the SDUO Quantification Protocol to MDE and EPA for review, comments and approval on August 06, 2009. EPA/MDE issued a SDUO Quantification Protocol comment letter on December 21, 2009. The City of Baltimore issued a response letter to EPA/MDE on February 16, 2010. EPA/MDE approved the quantification protocol on October 12, 2010, and requested that the City apply the protocol to all resolved and outstanding SDUO sites since October 30, 2008, and to all future SDUOs. The City submitted a final approved copy of the SDUO Quantification Protocol to MDE/EPA on November 18, 2010 and sent in the application of the SDUO Protocol on December 28, 2010.

APPENDIX 1

**STATUS OF
PARAGRAPH 8
CONSTRUCTION PROJECTS**

APPENDIX 1
STATUS OF PARAGRAPH 1.8 CONSTRUCTION PROJECTS
As of June 30, 2017

PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
UPPER JONES FALLS SEWERSHED							
1	Western Run Interceptor (JPI Branch) Sanitary Contract Nos. 760 & 769	1. Install approximately 880 linear feet of 30-inch parallel relief sewer from JPIB49 to JPI10 (along JPI90A-JPIB4) (SC760) 2. Install approximately 9,400 linear feet of 21- to 24-inch parallel relief sewer from JPI20 to JPI65 (SC789) 3. Rehabilitate approximately 3,300 linear feet of existing 18-inch sewer from JPI07 to JPI20 (SC789)	June 30, 2002	June 30, 2004	June 30, 2005	Eliminates SSO nos. 21, 22, 23, 24 and 29	Complete
2	Upper Jones Falls Interceptor (North & South of Pepsi Cola Plant) Sanitary Contract Nos. 772 & 824	1. Rehabilitation of approximately 1,800 linear feet of existing 42- to 48-inch sewer located between JP01 (Mt. Washington Flume) and JP10, and approximately 6,570 linear feet of 48- to 60-inch sewer located between JP42 and the JP70. Replacement of approximately 1,900 linear feet of 48" sewer between JP10 and JP18, and approximately 1,550 linear feet of 60" sewer between JP70 and the Jones Falls Pumping Station (SC 772). 2. Replacement of approximately 7,080 linear feet of 48-inch sewer between JP18 and JP42 (SC 824). 3. Manhole and stream bank restoration.	June 30, 2004	December 27, 2006	12/30/2008 **	Eliminates SSO Nos. 33 and 34	SC 772: Practical Completion was achieved on June 30, 2006. SC 824 - Construction Phase** Letter sent to MDE and EPA on 6-25-07 requesting an extension of the SSO elimination date to December 2008. MDE response letter approving extension received on 11/15/07. Eliminated SSO Nos. 33 and 34 on 12/10 and 12/23/08, respectively.
3	New Jones Falls Force Main/Pressure Sewer - Lower Section and Valves improvements of existing force/pressure sewer Sanitary Contract Nos. SC779 & SC805	1. Replacement of approximately 1600 linear feet of force main/pressure sewer in Broadway from Oliver to East Chase Street connecting to High Level sewer (SC 779) 2. Improvements to gate valves, blow-off valves and air release valves for existing force main/pressure sewer (SC 805)	December 30, 2002	June 30, 2004	6/30/2005 - SEE STATUS	Contributes to elimination of SSO No. 5	SSO No. 5 cannot be eliminated until projects 4 and 5 are completed.
4	Jones Falls Pumping Station Force Main/Pressure Sewer Sanitary Contract No. 800	Upgrade existing force main/pressure sewer to handle increased flows from rehabilitated/upgraded Jones Falls Pumping Station as well as additional flows from possible future pumping stations in Stony Run and along the JGA branch	June 30, 2005	12/29/2007**	May 2, 2008	Contributes to elimination of SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 6-11-07 requesting additional 90 day practical completion extension to December 2007. MDE response letter approving additional extension received September 5, 2007. Letter sent to MDE and EPA on 12/17/07 requesting additional 60 day extension for practical completion. Practical completion occurred on 1/23/08. Extension request approval granted by MDE in a letter dated April 15, 2010. Awaiting response from EPA.
5	Jones Falls Pumping Station Sanitary Contract No. 822	Upgrade existing pumping station to handle at least 50 mgd	December 30, 2005	12/29/2007**	June 30, 2008	Eliminates SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 6-11-07 requesting additional 90 day practical completion extension to December 2007. MDE response letter approving additional extension received September 5, 2007. Beneficial Occupancy achieved 11/19/07.
6	Elimination of Collection System Overflows in Upper Jones Falls Sewershed Sanitary Contract No. 876	Assess hydraulics and design improvements to areas adjacent to overflows	Existing on-call contract	June 30, 2003	June 30, 2004	Eliminates SSO Nos. 20, 31, 32 and 36	Complete

Note: Shaded date cells indicate completion.

PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSCO STRUCTURES ELIMINATED	STATUS
LOWER JONES FALLS SEWERSHED							
7	Lower Jones Falls Interceptor (Upper Portion of Gravity Mainline) Sanitary Contract Nos. 773 & 818	1. Install approximately 7,900 linear feet of 18- to 24-inch parallel relief sewer from JG030 (near Jones Falls Pumping Station) to JG061 (at the connection of the IGE branch) (SC818). 2. Rehabilitation of approximately 16,500 linear feet of existing sewer ranging from 12- to 50-inch (SC773) 3. Inverted siphon rehabilitation along Union Avenue near Meadow Mills at Woodberry 4. Stream bank restoration along Union Avenue near Meadow Mills at Woodberry	July 31, 2003 June 30, 2006 (SC-818 & 839)	June 30, 2006	2/28/10***	Eliminates SSO No. 67	Post Construction Monitoring Phase. Monitoring period is extended at one site.
8	Stony Run Interceptor and Pumping Station (UGF Branch)** Sanitary Contract No. 819, 838, 839 & 847	1. Construct a 20 mgd capacity pumping station near Department of Public Works Solid Waste Site near the intersection of 28th Street and Sison Street. 2. Install approximately 1,200 linear feet of 24-inch force main from new pumping station to JFPS pressure sewer (length depends on location of pumping station) 3. Parallel approximately 10,000 linear feet of existing sewer from south of Coldspring Lane (JGF48) to the new pumping station with 18 to 36-inch sewer	December 30, 2005 (SC-819 & 839) June 30, 2006 (SC-839 & 847)	5/31/2009***	2/28/10***	Contributes to elimination of SSO No. 72; eliminates SSO No. 129	Practical completion was achieved on May 29, 2009 for the lower portion of the Stony Run Interceptor (SC - 839). Non-CD portion of the project is nearly complete. Flow monitor installed at new Stony Run Pump Station on August 26, 2009. The City submitted an extension request to EPA and MDE for SSO 67 and 72 dated February 16, 2010 requesting an extension to February 28, 2011. The City turned in another extension letter on June 29, 2010. The extension was approved on June 29, 2010 to allow for adequate time for the City to complete the hydraulic restriction project at the BR-WWTP, which the City believes is a major contributor to not being able to eliminate these SSOs.
9	Maryland Avenue Interceptor (JGB Branch) Sanitary Contract No. 799	1. Replace (upsize) approximately 4,400 linear feet of existing 12- to 24-inch sewer with new 21- to 36-inch sewer along branch interceptor, excluding proposed 501' N. Howard project area 2. Improvements to siphon/SSO No. 162 under I-83 (JGB16-JGB19) 3. Sewer replacement may require crossing the CLRL	December 30, 2003	July 14, 2005 *	June 30, 2006	Eliminates SSO Nos. 69 & 125	Complete
10	Greenmount Avenue Interceptor (JGB Branch) Sanitary Contract No. 820, 833	1. Install approximately 7,325 linear feet of 36 to 42-inch parallel relief sewer from Bonaparte Avenue to the High Level Interceptor on Eager Street. 2. Line approximately 6,000 linear feet of 15- to 33-inch existing sewer.	December 30, 2005	12/27/07 **	2/28/10***	Contributes to elimination of SSO No. 72	Construction Phase. SC 833-Extension letter was sent on 12-7-07 for a 90 day extension through March 29, 2008. This extension was approved and a subsequent extension for 90 days, through June 27, 2008. Monitoring period began on May 27, 2008. Practical completion was achieved on May 27, 2008. Monitoring period began July 25, 2008. In a letter dated 11/09/2011, EPA approved the minor schedule modification.
11	Elimination of Siphon Blowoff (Siphon No. 6 - south of North Avenue Bridge, west of RR tracks) Sanitary Contract No. 830	1. Cleaning and inspection of siphon with repairs as necessary. 2. Elimination of blow-off.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 68	Complete
HERRING RUN SEWERSHED							
12	Moore's Run Interceptor - Middle Section Sanitary Contract Nos. 7746 and 7751	Construction of approximately 400 linear feet of 18-inch, approximately 600 linear feet of 21-inch, approximately 4900 linear feet 24-inch, approximately 1000 linear feet of 27-inch, and approximately 100 linear feet of 30-inch sewer to replace existing interceptor	June 30, 2003	July 14, and Sept 2, 2005*	June 30, 2006	Contributes to elimination of SSO Nos. 118 and 119	Complete
13	Moore's Run Interceptor - Lower Section Sanitary Contract No. 801 and 843	Construction of approximately 6900 linear feet of 42-inch, approximately 2700 linear feet of 36-inch siphon, and approximately 3700 linear feet of 54-inch sewer to replace the existing interceptor	June 30, 2005	June 30, 2007	June 30, 2008	Eliminates SSO No. 93 and 94	Construction Phase - Complete
14	Moore's Run Interceptor - Upper Section Sanitary Contract No. 817	Construction of approximately 1700 linear feet of 18-inch and approximately 2200 linear feet of 21-inch sewer to replace the existing interceptor	June 30, 2004	June 30, 2005	June 30, 2006	Contributes to elimination of SSO Nos. 118 and 119	Complete
15	Elimination of Collection System Overflows in Herring Run Sewershed	Assess hydraulics and design improvements to areas adjacent to overflows	Existing on-call contract	June 30, 2003	June 30, 2004	Eliminates SSO Nos. 88 and 109	Complete
16	Elimination of Siphon Blowoffs (Siphon No. 2 - between south of RR tracks; Siphon No. 4 - Bowleys Lane/Moravia Road) Sanitary Contract No. 830	1. Cleaning and inspection of siphons with repairs as necessary. 2. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 92	Complete*

APPENDIX 1
STATUS OF PARAGRAPH 1.8 CONSTRUCTION PROJECTS
As of June 30, 2007

PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
GWYNS FALLS SEWERSHED							
17	Powder Mill System Improvements including GFG branch in Gwynns Falls Sewershed Sanitary Contract Nos. 777 & 804	Rehabilitation of approximately 12,000 linear feet of 12- to 24-inch conveyance piping (SC777) and approximately 33,000 linear feet of 8- to 10-inch collection piping (SC804)	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 28P, 29P and 33P	Complete
18	Dead Run System Improvements DCA Branch Sanitary Contract No. 788, 825	Clean, inspect and rehabilitate approximately 20,000 linear feet of 12- to 24-inch conveyance piping (COE) and approximately 11,000 linear feet of 8- to 12-inch collection piping (SC788).	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 16P and 17P	Complete
19	Maidens Choice Interceptor Sanitary Contract No. 826	Clean, inspect, and rehabilitate 12,400 linear feet of 12- to 24-inch conveyance piping.	On-call contract	June 30, 2007	June 30, 2008	Eliminates SSO Nos. 23P and 24P	Construction Phase - Complete
20	Elimination of Siphon Blowoffs (Siphon No. 11 - Annapolis Road and Clare Street; Siphon No. 12 - Chesholm Rd., west of Franklinton Rd.) SC No. 827	1. Cleaning and inspection of siphons with repairs as necessary. 2. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 84 and 22P	Complete*
COMBINED SEWER AREAS							
21	Walbrook Sanitary Contract No. 780	Implementation of Long Term Control Plan and combined sewer separation design in Walbrook area		June 30, 2002	June 30, 2003	Eliminates CSO No. 21P	Complete
22	Forest Park Sanitary Contract Nos. 789 and 813	Implementation of Long Term Control Plan and combined sewer separation design in Forest Park area	December 30, 2003	June 30, 2005	June 30, 2006	Eliminates CSO No. 13P and SSO Nos. 10P, 11P, 12P, 18P, 19P, 26P, 27P and 31P. SSO Nos. 10P, 18P, 19P & 31P are eliminated.	Complete
HIGH LEVEL SEWERSHED							
23	Gwynns Run Interceptor Sanitary Contract No. 812	Improvements to the Gwynns Run Interceptor	December 30, 2004	February 25, 2007	12/27/2007**	Eliminates SSO Nos. 106, 107 and 130	Complete
24	Gwynns Run System Improvements Sanitary Contract No. 807	Assess hydraulics and design improvements to areas adjacent to overflows	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 55, 56, 57, 60, 63, 103, 126, 127, 128 and 131	Complete
25	Elimination of Siphon Blowoffs (Siphon Nos. 9 and 10 - east of Dukeland Street, south of Wilkens Avenue) SC No. 827	1. Cleaning and inspection of siphons with repairs as necessary. 2. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 79 and 81	Complete*
LOW LEVEL SEWERSHED							
26	Elimination of Siphon Blowoff (Siphon No. 8 - rear of 800 Uneta Avenue) Sanitary Contract No. 827	1. Cleaning and inspection of siphon with repairs as necessary. 2. Elimination of blow-off.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 32P	Complete
* Approved by MDE/LEPA. ** Approved by MDE. *** Approved by EPA							

APPENDIX 2

**STATUS OF
PARAGRAPH 9
CONSTRUCTION PROJECTS**

**STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS
As of June 30, 2017**

Proj. No.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF CONSTRUCTION COMPLETION	DATE OF EVALUATION COMPLETION	STATUS
		JONES FALLS SEWERSHED				
JF-1	Lower Jones Falls Sewer Cleaning	SC 876 - The work includes the Lower Jones Falls Interceptor, located in the gravity sewage collection system. Typical work includes initial SONAR assessment of the sanitary sewers to quantify sediment and debris levels, cleaning 8,400 feet of 10" to 75" sanitary sewers between Falls Rd Siphon to the High Level Interceptor, with proper disposal of removed material, and post cleaning CCTV/SONAR/Laser assessment to document the internal condition of the pipes.	5/20/2009 (A)	1/1/2012 (A)	1/1/2013 (A)	This contract was awarded to Video Pipe Services (VPS) on October 21, 2009. The Cleaning of the Lower Jones Falls and Maryland Ave. Siphon Cleaning were combined into one Project (SC 876).
JF-2	Maryland Avenue Sewer Siphon Cleaning	SC 876 - The work includes Maryland Avenue Siphon, and sewers upstream of the Maryland Avenue Siphon (18 and 24-inch sewer siphon). Typical work includes initial SONAR assessment of the sanitary sewers to quantify sediment and debris levels, cleaning of Maryland Avenue Siphon, and various sewers upstream of the Maryland Avenue Siphon, with proper disposal of removed material, and post cleaning CCTV/SONAR/Laser assessment to document the internal condition of the pipes.	5/20/2009 (A)	1/1/2013 (A)	1/1/2014 (A)	This contract was awarded to Video Pipe Services (VPS) on October 21, 2009. The Cleaning of the Lower Jones Falls and Maryland Ave. Siphon Cleaning were combined into one Project (SC 876).
JF-3	Upper Jones Falls Interceptor Reactivation	Reactivation of an inactive 42-inch diameter interceptor sewer along Jones Falls from Northern Parkway (MH S19CC, 2045MH) to Cold Spring Lane (MH S1900, 1042MH). Prior to reactivation of the 42-inch sewer, an internal inspection of the sewer was necessary to find the actual condition of the line. The City utilized its technical support consultant (KCI) to carry out the inspection process. The field work was started in September 2009 and their findings were completed and a final report was delivered on June 30, 2010.	07/15/2009 (A)	08/08/2010 (A)	N/A	Per Consultant's (KCI) evaluation of the inspection and cleaning work, the line is in fairly good condition and can be re-activated without any major repair/rehabilitation work. This project is complete and the City will utilize this line in the future as deemed necessary a Construction project will not be pursued. All Future work for this pipe will be tracked independently by the City. Conditional Acceptance was on 11/17/10, and Final Acceptance was on 09/22/11.
JF-4	SC 895 - MD Ave Sewer Rehab	SC 895 - Repair and rehabilitation of sanitary sewer and manholes in the Maryland Ave sub- sewershed of the Jones Falls Sewershed.	11/04/11 (A)	05/20/2013 (A)	5/8/2014 (A)	Bids were opened on 12/14/11 and AM LIner was the lowest bidder. Contract was awarded to AM LIner on 03/21/2012. Pre- construction meeting was held on May 17, 2012. Construction began June 2012. Fourth construction progress meeting was held on March 20, 2013. Last construction progress meeting was held on May 08, 2013. Construction completed.
JF-5	SC 898 - Stony Run Area	Repair and rehabilitation of sanitary sewer and manholes in the Stony Run Area of the Jones Falls Sewershed.	7/27/2012 (A)	8/1/2016 (A)	8/1/2017	The project was advertised on 7/27/12. The lowest bidder is Insituform Technologies. Award date is 12/19/12 and NTP issued on 2/8/13. Project is substantially completed by 8/1/2016.
JF-6	SC 899 - Western Run Area	Repair and rehabilitation of sanitary sewer and manholes in the Western Run Area of the Jones Falls Sewershed.	7/27/2012 (A)	8/1/2016 (A)	8/1/2017	The project was advertised on 7/27/2012. The lowest bidder is Insituform Technologies. Award date is 12/19/12 and NTP issued on 2/8/13. Project is substantially completed by 8/1/2016.
JF-7	SC 900 - Upper Jones Falls and Maryland Avenue	Repair and rehabilitation of sanitary sewer and manholes in the Upper Jones Falls and Maryland Avenue areas of the Jones Falls Sewershed.	7/27/2012 (A)	8/1/2016 (A)	8/1/2017	The project was advertised on 7/27/2012. The lowest bidder is Insituform Technologies. Award date is 12/19/12 and NTP issued on 2/8/13. Project is substantially completed by 8/1/2016.
JF-8	SC 897R - Greenmount, Hampden and Bolton Hill	Repair and rehabilitation of sanitary sewer and manholes in the Greenmount, Hampden, and Bolton Hill areas of the Jones Falls Sewershed.	3/22/2013 (A)	8/1/2016 (A)	8/1/2017	The contract was advertised on 3/22/13. The lowest bidder is Insituform Technologies. Award date is 6/26/13 and NTP issued on 6/27/13. Project in liquidated damages
		OUTFALL SEWERSHED				
OF-1	Sediment Cleaning Trunk Sewers in City of Baltimore.	SC 884 - Cleaning of Outfall Sewershed 99-inch and Outfall Interceptor. (From N. Bond Street to 6300 Block of E. Lombard Street)	09/05/11 (A)	04/12/2014 (A)	4/12/2015 (A)	This contract was awarded to Meira Industries, who was the lowest bidder, on 6/8/11. NTP was issued on 8/8/11. Cleaning of the outfall stoppage as of 6/25/12. Project re-started on 4/29/13 and was completed on 4/27/14.
OF-2	SC934 - CLEANING OF THE OUTFALL INTERCEPTOR AND RELIEF SEWERS - PHASE II	Cleaning of the relief sewer and outfall interceptor - phase II	12/13/2013 (A)	6/5/2018	6/30/2019	The contract was advertised on 12/13/13. The lowest bidder is Meira Industries. Award date is 3/12/14 and NTP issued on 4/24/14. Project in liquidated damages.
OF-3	SC919 - Sewer Rehab in the Outfall Sewershed	SC 919 - Sewer Rehab in the Outfall Sewershed	7/17/2015 (A)	6/5/2019	6/29/2020	The contract was advertised on 7/17/2015. Bid opening is 8/26/2015 and NTP issued on 2/26/2016.

Note: Shaded date cells indicate completion.

**STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS
As of June 30, 2017**

HIGH LEVEL SEWERSHED						
HL-1	Liberty Heights Relief Sewer	SC 879 - Design and construction 18" Relief Sewer from intersection of Springdale Rd and N Hilton St to intersection of Wabash Ave and Liberty Heights Ave. (S99JU_007MH) to S13JU_008WH). Work includes excavation and removal of existing 12 inch sewer line, installation of 2400 LP of new 18-inch sewer line and relocation of 720 LP of 20-inch water line. Evaluation phase will include continual monitoring of existing engineered SSOs 132, 134 and 135 to ensure no overflows	2/10/2012 (A)	4/11/2014 (A)	4/11/2015 (A)	The contract was advertised on 2/10/12. Bids were due by 3/21/12, but date was extended to 4/4/12. The contract was awarded on 9/26/12 to Monumental Paving and Excavating Inc. Project was finally accepted on January 2016.
HL-2	SC907 - East Baltimore Region	SC 907 - Repair and rehabilitation of sanitary sewer and manholes in the East region of the High Level Sewershed.	3/22/2013 (A)	11/3/2016 (A)	11/2/2017	The contract was advertised on 3/22/13. The lowest bidder is Inland Waters. The project was awarded on 8/14/13 and NTP was issued on 11/1/13. Project is conditionally accepted on 1/13/2016.
HL-3	SC906 - West Baltimore Region	SC 906 - Repair and rehabilitation of sanitary sewer and manholes in the West region of the High Level Sewershed.	5/10/2013 (A)	7/1/2016 (A)	7/1/2017	The contract was advertised on 5/10/13. Lowest Bidder is SAK Construction. The contract was awarded on 11/13/13 and NTP issued on 2/5/14. Project in conditionally accepted on 7/1/2016
HL-4	SC932 - Improvements to Lower Gwynns Run Interceptor - Phase II From Franklin Street to Baltimore Street	SC 932 - Improvements to Lower Gwynns Run Interceptor - Phase II From Franklin Street to Baltimore Street - microtunneling project	7/26/2013 (A)	11/25/15 (A)	11/15/16 (P)	The contract was advertised on 7/26/13. Lowest Bidder is Bradshaw Construction. Contract was awarded on 3/12/14 and NTP issued on 5/28/14. Project was finally accepted on 11/25/2016.
HL-5	SC933 - High Level Interceptor Cleaning	SC 933 - cleaning of the High Level Interceptor	7/26/2013 (A)	12/12/2016 (A)	12/12/2017	The contract was advertised on 7/26/13. Lowest Bidder is Video Pipe Services Construction. Due to an unbalanced bid, the contract will be awarded to the second lowest bidder Proven Management. Award date is 4/23/14 and NTP issue date is 7/30/14. Project was conditionally accepted on 12/12/2016.
HL-6	SC905 - North Region of High Level Sewershed	SC 905 - Repair and rehabilitation of sanitary sewer and manholes in the North region of the High Level Sewershed.	10/11/2013 (A)	6/4/2015 (A)	6/3/2016	The contract was advertised on 10/11/13. Lowest Bidder is Spinello. Contract was awarded on 3/19/14 and NTP issued on 6/2/14. Project completed.
Herring Run Sewershed						
HR-1	SC911 - Herring Run Sewer Improvement	SC 911 - Repair and rehabilitation of sanitary sewer and manholes in the Herring Run Sewershed.	8/16/2013 (A)	1/20/2016 (A)	1/20/2017	The contract was advertised on 8/16/13. Lowest Bidder is AM Linc. East. Contract was awarded on 2/5/14, and NTP issued on 5/14/14. Project is conditionally accepted on 1/20/2016.
HR-2	SC908 - Herring Run Sewer Improvement	SC 908 - Repair and rehabilitation of sanitary sewer and manholes in the Herring Run Sewershed.	9/6/2013 (A)	12/31/2017	12/31/2018	The contract was advertised on 9/6/13. Lowest Bidder is Anchor Construction. Due to issues with MBE/WBE, the contract was awarded to the second lowest bidder AM Linc. East. Contract was awarded on 2/5/14 and NTP issued on 5/11/14. Project in liquidated damages.
HR-3	SC909 - Herring Run Sewer Improvement	SC 909 - Repair and rehabilitation of sanitary sewer and manholes in the Herring Run Sewershed.	10/11/2013 (A)	7/6/2016 (A)	7/6/2017	The contract was advertised on 10/11/13. Lowest Bidder is Inland Construction. Contract was awarded on 1/29/14 and NTP issued on 4/21/14. Project is conditionally accepted on 7/6/2016.
HR-4	SC937 - Improvements to Sanitary Sewers in HR07A and along Chesterfield Avenue in Herring Run Sewershed	Improvements to Sanitary Sewers in HR07A and along Chesterfield Avenue in Herring Run Sewershed	7/17/2015 (A)	2/15/2018	2/15/2019	The contract was advertised on 7/17/2015. Bid opening is 8/19/2015 and awarded to SAK.
Low Level Sewershed						
LL-1	SC922R - Low Level Interceptor Cleaning	SC 922R - cleaning of the Low Level Interceptor	1/31/2014 (P)	11/24/2015 (A)	11/30/2016 (A)	The contract was advertised on August 16, 2013. Lowest Bidder is Video Pipe Services Construction. Due to unbalanced bids, this contract was reawarded on 2/7/14. Lowest Bidder is Video Pipe Services Construction. Award date is 7/23/14. NTP issued on 10/1/2014. Project was finally accepted on 11/30/16.
LL-2	SC913 - Western Region of Low Level	SC 913 - Repair and rehabilitation of sanitary sewer and manholes in the Western Region of the Low Level Sewershed.	9/20/2013 (A)	9/8/2015 (A)	10/8/2016 (A)	The contract was advertised on 9/20/13. The lowest bidder is Meira. Contract was awarded on 2/12/14 and NTP issued on 4/17/14. Project was finally accepted on 10/8/16.
LL-3	SC912 - Eastern Region High Level	SC 912 - Repair and rehabilitation of sanitary sewer and manholes in the Eastern Region of the Low Level Sewershed.	9/20/2013 (A)	8/1/2016(A)	9/30/2017	The contract was advertised on 9/20/13. The lowest bidder is Insluform. Contract awarded on 1/15/14 and NTP issued on 3/7/14. Project in liquidated damages.

Note: Shaded date cells indicate completion.

**STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS
As of June 30, 2017**

LL-4	SC914 - Improvements to Sanitary Sewers in Low Level Sewershed	SC 914 - Improvements to Sanitary Sewers in Low Level Sewershed	6/26/2015 (A)	6/18/2018	6/19/2019	The contract was advertised on 6/26/2015. Bid opening is 7/29/2015.
		Gwynns Falls Sewershed				
GF-1	SC920 - South Area Gwynns Falls	SC 920 - Improvements to the Gwynns Falls Sewershed Collection System - Area A	6/6/2014 (A)	12/28/2017	12/28/2018	The contract was advertised on 6/6/14. The lowest bidder is SAK Construction. NTP was issued on 1/12/2015.
GF-2	SC939R - Maidens Choice Pressure Sewer Inspection and Uplands Sewer Rehab	SC 939R - Maidens Choice Pressure Sewer Inspection and Uplands Sewer Rehab	6/26/2015 (A)	TBD (P)	TBD (P)	The contract was advertised on 6/26/2015. Bid opening is 7/29/2015. Bid is rejected, completion date TBD.
		Dundalk Sewershed				
DD-1	SC 902 - Sewer Rehab in the Dundalk	SC 902 - Sewer Rehab in the Dundalk Sewershed	3/6/2015 (A)	9/15/2017	9/15/2018	The contract was advertised on 3/6/15. Bid opening is 4/8/2015. The lowest bidder is Spinello. NTP will be issued on 10/14/2015
		Patapsco Sewershed				
PA-1	SC 903 - Sewer Rehab in the Patapsco Sewershed	SC 903 - Sewer Rehab in the Patapsco Sewershed	7/24/2015 (A)	6/5/2019	6/29/2020	The contract was advertised on 7/24/2015. Bid opening is 8/26/2015.

Key: "SS - XX" = Sewershed Name - CD Project No.

APPENDIX 3

LIST OF ILLEGAL CONNECTIONS

City of Baltimore Sanitary Sewer Overflow Consent Decree
 Civil Action No. JFM-02-1524
 List of Illegal Connections

Full Address	Test ID	Responsible Party	Source Type	Date Identified	Drp. Result	Current Status	Comments
1. 5904 Berkeley Ave.	172 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
2. 6203 Baltimore Ave.	311 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
3. 3310 Clarks Ln	212 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
4. 3312 Clarks Ln	212 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
5. 3601 Clarks Ln	256 B 1	Property Owner	Area Drain	3/21/2005	Positive	Newly Identified	Confirmed Not Illegal
6. 2238 Crest Rd.	14 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
7. 2302 Crest Rd.	13 A 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
8. 5616 Cross Country Blvd.	13 A 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
9. 6309 Fairlane Dr.	99 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
10. 6309 Fairlane Dr.	154 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
11. 6908 Haddock Rd.	271 B 3	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
12. 6908 Haddock Rd.	271 B 3	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
13. 3800 Glenlyle Ave.	275 B 13	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
14. 6309 Greenspring Ave.	153 B 5	Property Owner	Downspout	4/03/17		Illegal	It was confirmed as an illegal connection in January 2011 after carrying out more dye-testing. A letter was sent to the property owner on August 08, 2011. A follow up letter dated 01/05/2012 was sent to the property owner requesting that the drain be disconnected. Corrective action has been taken. This location was tested and confirmed that the problem has been abated.
15. 2212 Ken Oak Rd.	153 B 4	Property Owner	Area Drain	3/28/2005	Positive	Newly Identified	Confirmed Not Illegal
16. 2212 Ken Oak Rd.	100 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
17. 2418 Ken Oak Rd.	100 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
18. 2418 Ken Oak Rd.	153 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
19. 2505 Kenwood Rd.	151 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
20. 2505 Kenwood Rd.	151 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
21. 5815 Leatha Rd.	116 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
22. 4424 Marble Hall Road		Property Manager	Stermerwater Drain	4/13/2011		Illegal	A letter was sent to HCD on May 25, 2011, for further action. A violation notice was issued in July 2011. A meeting was held on July 28, 2011, with Marble Hall Apartment management to discuss the progress of relocating the illegal connection. Per the management of the apartment complex, the connection was re-routed in August 2011. Follow up testing was carried out in September which indicated that the fix has not prevented storm water getting into the sanitary sewers. Further coordination is being done to permanently resolve the issue. A letter dated 11/28/11 was sent to HCD to continue enforcement. Property owner is not responsive. DPW will coordinate with HCD for enforcement. This violation has been corrected. A City representative visited the site and conducted visual inspection and dye test on March 11, 2013 to confirm this location is abated.
23. 3 Millbrook Rd.	D 1	Property Owner/Trustee	Patio Drain	5/19/2011		Illegal	It was confirmed as an illegal connection in May 2011 after carrying out more dye-testing. A letter was sent to the property owner on August 08, 2011. A follow up letter dated 11/28/11 was sent to the property owner requesting that the temporary seal be removed permanently.
24. 5806 Park Heights Ave.	78 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
25. 78 B 2	78 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
26. 78 B 3	78 B 3	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
27. 78 B 9	78 B 9	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
28. 78 B 8	78 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
29. 5905 Park Heights Ave.	78 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
30. 6414 Park Heights Ave.	315 A 1	Property Owner	Area Drain	3/22/2005	Positive	Newly Identified	Confirmed Not Illegal
31. 6414 Park Heights Ave.	315 A 1	Property Owner	Area Drain	3/22/2005	Positive	Newly Identified	Confirmed Not Illegal
32. 7126 Park Heights Ave.	280 B 16	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
33. 6311 Pearce Ave.	203 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
34. 203 B 4	203 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
35. 6106 Pimlico Rd.	135 A 1	Property Owner	Driveway Drain	3/28/2005	Positive	Newly Identified	Confirmed Not Illegal
36. 6306 Pimlico Rd.	127 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
37. 5503 Busk Ave.	30 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
38. 3208 Shelburne Rd.	334 A 1	Property Owner	Driveway Drain	3/15/2005	Positive	Newly Identified	Confirmed Not Illegal
39. 1709 South Rd.	324 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
40. 2117 Sullrove Ave.	320 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
41. 2607 Laney Rd.	183 B 4	Property Owner	Driveway Drain	3/23/2005	Positive	Newly Identified	Confirmed Not Illegal
42. 2607 Laney Rd.	183 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
43. 2607 Laney Rd.	183 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
44. 2808 Laney Rd.	182 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
45. 1827 W. Strathmore Ave.	182 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
46. 2810 W. Strathmore Ave.	180 A 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
47. 3602 Chesholm Rd.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
48. 6708 Park Heights Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
49. 4214 Groveland Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
50. 4414 Groveland Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
51. 2705 Queen Anne Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
52. 5614 Seward Ave		Property Owner	Swimming Pool	8/9/2011	Positive	Illegal	A letter dated 12/9/11 was sent to the property owner requesting that the drain be disconnected from the sanitary line. The illegal connection was removed by the owner.
53. 5207 Roland Ave		Property Owner	Downspout	12/27/2016	Positive	Illegal	A letter dated 1/3/17 was sent to the property owner requesting that the drain be disconnected from the sanitary line. The illegal connection was removed by the owner.

APPENDIX 4

PUMPING STATION WORK ORDERS

Co. No.	Area	Loc.	Mechine Number	Mechine Description	WO Sts	Plnr Pnty Code	WO Number	Short Problem Description	Full Problem Description	Req. By	Craft Issue Date	Wk Sht Issue Date	Wk Sht Issue Date
11	PUMPING ST JF		520018	BUBBLER (WETWELL)	25	4	17-81854	ELCPS-REPLACE FLOAT IN WE bed		HJ	ELCPS 20170206	W15	
			533101	SCREEN BAR	25	4	17-82813	ELCPS-CHECK BAR SCREEN FA TORQUE		HJ	20170618	W15	
			931102	PUMP #2 SPARGE(SUBMERSEIBL)	25	4	17-82819	ELCPA-INSTALL #2 PUMP H. JOHNSON 6-4572		HJ	20170631	W15	
			991135	PUMP-WET WELL SUMP (OUTST)	25	4	16-80661	1 ELCPS-MCHPS-REPAIR PUMP (clogged) stielperc 64972		CS	20150621	W55	
			991170	PANEL-VFD CONTROL #4(ESP)	25	4	17-82424	ELCPS-CHANGE FAN IN #4 VP H. JOHNSON 6-4572		HJ	20170410	W21	
Total * ELCPS * Work Orders: COUNT 18													
			985300	FACILITY-CAROLINE ST. P. S.	25	30	16-80651	GRNDS / VAC CON TO CLEAN stielperc 64972		CS	GRDS 20150910	W45	
			985300	FACILITY-CAROLINE ST. P. S.	25	30	16-80683	GRNDS /VAC TRUCK TO CLEAN stielperc 64972		CS	20151006	W45	
			985302	PUMP-STORM DRAIN #2	25	4	16-80676	GRDS-REPOSITION PUMP TO S SEE KEITH WATKIN. RED BY J. HAROCK 6-5748		JCN	20151005	W34	
			941203	MOTOR-SPARGE PUMP #3	25	2	17-81301	GRNDS/ BOOM TRUCK TO DELI Dumbalk stielperc 64972		CS	20170109	W34	
			941000	FACILITY-DUMBALK PUMPING	25	4	16-81877	GRDS-BOOM TRUCK NEEDED TO TO STATION. RED BY H. HOOKS 65733		WH	20160204	W34	
			919094	DUMPFSTER (NORTH)	25	30	15-82720	GRNDS-NEED VAC-FULL TRUCK westport screen room dumpster(dumpster Full)_		HJ	20150421	W15	
			911000	FACILITY-EASTERN AVENUE	25	30	17-81230	GRNDS- NEED TRUCK TO REPO from lot and deliver to BR stielperc 64972		CS	20170103	W34	
			919094	DUMPFSTER (NORTH)	25	30	17-81646	GRND-REMOVE DUMPFSTER FROM DUMPFSTER NEEDS TO BE TAKEN TO BACK RIVER DUMP UNWANNOCKS-4572 VD		VD	20170112	W34	
			911104	PUMP-SPARGE #4	25	4	16-80026	GRND-BOOM TRUCK TO DELIVE EMBLY TO EASTERN AVE. P.S. DUE DATE OF 7/22/15. RED BY H. HOOKS WH		WH	20150721	W34	
			961000	FACILITY-HIGHLANDTOWN	25	30	17-80024	2 GRNDS/ ELCPS DELIVER GEN station for eng use stielperc 64972		CS	20160726	W34	
			961000	FACILITY-JONES FALLS	25	4	17-80403	GRNDS-ASSIST/TAKE WITH BOOM TO TRANSPORT SCREEN ASS. TO STATION. RED BY H. HOOKS 65733		WH	20160921	W34	
			991134	PUMP-RNH SPARGE #4 W/PMDT	25	4	17-81085	GRDS-DELIVER MOTOR TO TEA req k reynor		KCR	20161206	W34	
			972707	DUMPFSTER #1	25	30	17-82132	GRND-RED-DUMPFSTER NEEDS T dumpster needs to be vac-hauled out volumnock 6-4572		VD	20170313	W24	
			972708	DUMPFSTER #2	25	4	17-80627	GRNDS-VAC TRUCK TO CLEAN stielperc 64972		CS	20161102	W45	
Total * GRDS * Work Orders: COUNT 14													
			955301	FAN-#1 EXHAUST(ON ROOF FD	25	4	15-81029	HA-REPLACE BELT	RED. BY J. HAROCK 6-5748	JCN	HA 20141124	W56	
			957701	FOUNTAIN-DRINKING WATER	25	4	15-82554	2 BLDG/HA-REPAIR OR REPLACE cooler		HJ	20150626	W15	
			985603	AIR CONDITIONER (WINDOW)	25	30	15-82346	HA /REPLACE AC UNIT (BLDM stielperc 64972		CS	20150518	W15	
			985603	AIR CONDITIONER (WINDOW)	25	30	16-80378	HA/ REPLACE A/C UNIT (HO stielperc 64972		CS	20150904	W15	
			947803	FOUNTAIN-WATER	25	4	16-80020	HA-HOT WORKING NO AIR stielperc 6 4572		CS	20150715	W15	
			915508	FAN-EXHAUST (EAST)	25	30	14-80009	2 HA/ELCPS/REPAIR UNIT KEEP stielperc 64972		CS	20130717	W21	
			915510	FAN-EXHAUST	25	30	14-80012	2 HA/ELCPS/REPAIR UNIT KEEP stielperc 64972		CS	20130717	W21	
			915417	AIR HANDLING UNIT AND CHE	25	30	16-80389	1 HA/PENG- KEEPS SHUTTING D stielperc 64972		CS	20150811	W19	
			915417	AIR HANDLING UNIT AND CHE	25	30	16-82537	1 HA/PENG- REPAIR CHILLER (no control power } stielperc 64972		CS	20160631	W19	
			915501	FAN-EXHAUST #1	25	30	16-82821	2 HA/ELCPS-ADJUST BELT-REPA Joint.		CS	20160621	W56	
			915503	FAN-EXHAUST	25	4	13-82715	HA-REPAIR FAN (TRIPPED 0 load-stielperc 64972		CS	20130618	W21	
			915404	HEATER-UNIT #4(PUMP FLR)	25	4	13-82722	HA/REPAIR LEAKING HEATER stielperc 64972		CS	20130624	W18	
			915413	HEATER UNIT #1	25	4	14-81658	2 ELCPS/HA-REPAIR HEATER UN stielperc 64972		CS	20140124	W15	
			915414	HEATER-UNIT #2	25	4	14-81659	2 ELCPS/HA-REPAIR HEATING F stielperc 64972		CS	20140124	W15	
			915415	HEATER-UNIT #3(3RD FLOOR)	25	4	15-81629	HA-REPLACE HEAT/AC UNIT-I stielperc 64972		CS	20150205	W19	
			911818	FOUNTAIN-WATER	25	4	15-82553	2 BLDG/HA-REPAIR OR REPLACE cooler		HJ	20150626	W15	
			911000	FACILITY-EASTERN AVENUE	25	4	15-82570	HA -REPAIR DRAIN LINE 0 OFFICE		HJ	20150630	W39	
			919603	MACHINE-ICE M/FILTERS	25	4	16-80673	HA-REPAIR ICE MAKER-NOT M H. JOHNSON 6-4572		HJ	20151002	W19	
			915101	BOILER #1	25	4	16-80682	HA-REPLACE PRESSURE RELIEF valve 1s bed		HJ	20151006	W15	
			915201	PUMP-RECIRC.#1(BOILER)	25	4	16-81689	1 MCHPS/HA- ASSIST CLEAN PU stielperc 64972		CS	20160105	W15	
			915501	FAN-EXHAUST #1	25	4	16-82732	2 HA/ELCPS-REPAIR FAN CLOUD stielperc 64972		CS	20160421	W25	
			927301	CONDENSING UNIT(ROOF ABOVE	25	30	16-82636	HA/ REPAIR A/C UNIT VFD R not working } stielperc 64972		CS	20160631	W15	



Co. No.	Area	Loc.	Machine Number	Machine Description	MO Sts	Pmr Prty Code	MO Number	Short Problem Description	Full Problem Description	Req. By	Craft Code	MO Issue Date	Wk Sht Typ	Cl5
11	PUMPING ST	JF	927301	CONDENSING UNIT (ROOF ABOVE)	25	3D	17.00013	HA-REPAIR AC IN CONTROL R. H. JOHNSON 6-4972		HJ	HA	20160713	W19	
	JF		927301	CONDENSING UNIT (ROOF ABOVE)	25	3D	17.81663	HA/ADJUST FAN BELT ON #1 (VERY LOSE) STEIPEPC 64972		CS		20170131	M66	
	JF		925702	FOUNTAIN-WATER COOLER	25	4	15.82652	2 BLS/HA-REPAIR OR REPLACE WATER COOLER		HJ		20150626	M15	
	LOCP		985000	FACILITY-LOCUST POINT	25	4	16.80006	2 BLS-FOUNTAIN-WATER(BROKE) H. JOHNSON 6-4972		HJ		20150708	M15	
	PEST		976901	FOUNTAIN-WATER	25	4	16.80006	HA -WATER NOT COLD		HJ		20150708	M19	
	PEST		976901	FOUNTAIN-WATER	25	4	16.80006	HA -WATER NOT COLD		HJ		20150708	M19	
	QUAD		935806	FOUNTAIN-WATER	25	4	15.82657	2 BLS/HA-REPAIR OR REPLACE COOLER		HJ		20150626	M15	
	STEIN		991152	UNIT-AIRHANDLING #2	25	4	15.82019	HA/ADJUST BELT ON FAN NOT STEIPEPC 6-4972		CS		20150417	M25	
	STEIN		991151	UNIT-AIRHANDLING #1	25	4	17.00004	HA/ADJUST BELT ON FAN NO STEIPEPC 64972		CS		20160705	M66	
	WSTPT		971000	FACILITY-HESTOPRT	25	4	15.82655	2 BLS/HA-REPAIR OR REPLACE COOLER		HJ		20150626	M15	
Total * HA * Wk Orders:														
COUNT 33														
			CAROL 985301	PUMP-STORM DRAIN #1	25	3D	15.82580	2 ELPS/ INSPS-INVESTIGATE (or temp/orc torq) when running for extended time steipepc		CS	INSPS	20150620	M51	
			CAROL 985705	SYSTEM-BUBBLER	25	3D	16.81336	INSPS/ REPAIR LEVEL CONTR (false reading) 64972		CS		20151217	M15	
			CAROL 985701	CONTROLLER, PUMP, #1	25	4	15.81484	1 INITS/INSPER-INVESTIGATE C NOT WORKING IN AUTO-STEIPEPC 64972		CS		20150202	M21	
			CAROL 985702	CONTROL-PLC	25	4	16.80884	INSPS-PLC SCREEN HAS ON P. H. JOHNSON 6-4972		HJ		20151007	M21	
			CAROL 985805	RECORDER-CHART-METWELL	25	4	16.81135	INSPS-CHECK RECORDER, NOT H. JOHNSON 6-4972		HJ		20151124	M21	
			CAROL 985805	RECORDER-CHART-METWELL	25	4	17.81277	INSPS-REPLACE RM ON REC'D H. JOHNSON 6-4972		HJ		20161219	M15	
			CAROL 985710	CONTROL-PLC	25	4	17.81283	2 INSPS/ELPS-CHECK PLC CON H. JOHNSON 6-4972		HJ		20161223	M21	
			DUNBAL 948103	CONTROL-VPD #2 SEWAGE PUM	25	3D	15.82329	2 QPSC/INSPS/ELPS-REPAIR GROUND FAULT-STEIPEPC 64972		CS		20151112	M41	
			DUNBAL 948103	CONTROL-VPD #2 SEWAGE PUM	25	3D	16.81113	INSPS/REPAIR DRIVE FAULT STEIPEPC 64972		CS		20151112	M41	
			DUNBAL 940017	MONITOR-GAS	25	4	13.82584	INSPS- CHECK FOR PROPER O RED BY R. BARTON JR		RBJ		20130607	M58	
			DUNBAL 940002	FLOW INDICATING RECORDER/	25	4	14.80527	INSPS/ REPAIR UNIT NOT NO STEIPEPC 6 4972		CS		20130812	M15	
			DUNBAL 940002	FLOW INDICATING RECORDER/	25	4	14.82194	INSPS/REPAIR CHART PEN NO STEIPEPC 64972		CS		20140314	M15	
			DUNBAL 940005	RECORDER-MET WELL BUBBLER	25	4	15.82013	INSPS-REPLACE PEN CARTRID RECORDER-Cartridge out of ind		HJ		20150413	M15	
			DUNBAL 940031	UNIT-RADAR #2-INSCREEN	25	4	15.82034	INSPS-INSTALL NEW ULTRAS H. JOHNSON 6-4972		HJ		20150430	M15	
			DUNBAL 940006	RECORDER-MET WELL BUBBLER	25	4	15.82625	INSPS/ CHANGE RECORDER TO STEIPEPC 64972		CS		20150604	M15	
			DUNBAL 940001	METER-FLOW TRANSMITTER	25	4	17.82801	INSPS-REPLACE GAS DETECTOR replace gas detector not working volumock 6-5194		VD		20170331	M15	
			EASSTER 918909	SYSTEM-SCADA	25	3D	15.82383	INSPS-FLOW METER NEEDS PE flow chart recorder needs pen to be replaced not working		VD		20170608	M15	
			EASSTER 910018	ATMOSPHERE ANALYZER	25	3D	16.82627	INSPS/ REPLACE O2 SENSOR (not reading) steipepc 64972		CS		20150521	M44	
			EASSTER 910009	TRANSMITTER, PRESSURE	25	3D	17.00003	INSPS/ REPLACE TRANSDUCE readings steipepc 6 5194		CS		20160310	M15	
			EASSTER 910017	COMBUSTIBLE GAS ALARM	25	4	12.80543	INSPS/ REPAIR METER NOT H STEIPEPC 64972		CS		20160705	M15	
			EASSTER 910017	COMBUSTIBLE GAS ALARM	25	4	13.80631	INSPS- CHECK FOR PROPER O RED BY R. BARTON JR		RBJ		20121004	M23	
			EASSTER 913102	SCREEN-BAR (SOUTH)	25	4	16.80885	2 INSPS-ELPS-SOUTH BARE MET RUIR. H. JOHNSON 6-4972		HJ		20151009	M23	
			EASSTER 910008	RECORDER, PRESSURE	25	4	17.82154	INSPS-REPAIR OR REPLACE A arm is lose on pressure recorder volumock 6-4972		VD		20170403	M15	
			FTIC 902203	SYSTEM-SCADA-MODEM	25	3D	17.82113	INSPS-PROGRAM MODEM modem needs to be reprogrammed volumock 6-5194		VD		20170308	M44	
			FTIC 902203	SYSTEM-SCADA-MODEM	25	3D	17.81060	INSPS-INSPECT SCADA FOR D scada system has no dial tone volumock 6-4972		VD		20161118	M44	
			HILLAND 961000	FACILITY-HIGHAMTOWAN	25	3D	17.82816	2 INSPS-INSPECT PDEMI OR RE inspect or reprogram modem not communicating properly		VD		20170525	M44	
			JF 920005	CONTROLLER-PROGRAMMABLE	25	3D	15.80293	2 INSPS/ELPS MAKE REPAIRS/ OIT SCREEN /PLC-STEIPEPC 64972		CS		20140808	M15	
			JF 926301	GENERATOR-EMERGENCY SET	25	3D	16.80014	2 INSPS/ELPS-INVESTIGATE -breaker 52-6-fault) steipepc 64972		CS		20150620	M51	
			JF 920091	PLC/LOCAL CONTROL STATION	25	3D	16.80040	INSPS/RESTORE BACK UP PLO to control scheme steipepc c 64972		CS		20150601	M23	
			JF 928005	VPD-#4 SEWAGE PUMP(CPY900)	25	3D	16.80573	INSPS-REPAIR FAULT, HONT RED BY C-STEIPEPC		CS		20150925	M41	
			JF 920018	BUBBLER-(METWELL)	25	4	12.81514	INSPS/ INSPECT FOR PROPER STEIPEPC 64972		CS		20111123	M88	
			JF 920012	METER-OVERBOARD (LEVEL)	25	4	14.82482	INSPS- REPLACE BAD UNIT RED BY R. BARTON JR		RBJ		20140523	M15	
			JF 920018	BUBBLER-(METWELL)	25	4	16.81332	INSPS/ VERIFY LEVEL READ steipepc 64972		CS		20151211	M15	
			LOCP0 985029	BUBBLER-SYSTEM	25	3D	16.80036	INSPS/REPAIR OR REPLACE C (no pressure) steipepc 64972		CS		20150727	M21	
			LOCP0 985017	MONITOR-MULTI-GAS SYSTEM	25	4	17.81837	INSPS-REPAIR GAS METER(ND H. JOHNSON 6-4972		HJ		20170206	M21	

Co. No.	Area	Loc.	Machine Number	Machine Description	MO Sts	Plnt Prty Code	W/O Code	Number	Short Problem Description	Full Problem Description	Req. By	Craft Code	MO Issue Date	Wk Sht Typ	Sl
11	PUMPING ST	LOCO	985021	SCADA	25	4	17-82150		INSPS-REPAIR MODEN STATIO communicating		HJ	INSPS	20170329	W15	1
		LOCO	987501	ALARM/COMBUSTIBLE GAS	25	4	17-82152		INSPS-REPLACE GAS DETECTOR replace gas detector not working volumock6-5194		VD		20170331	W15	2
		MCST	973003	CONTROLLER PROGRAMMABLE	25	30	17-82137		INSPS-CORRECT PLC MALFUNCTION (no process control) stielperc 64972		CS		20170320	W21	3
		MCST	973004	UPS-SYSTEM	25	30	17-82144		INSPS/REPLACE BATTERY TO stielperc 64972		CS		20170323	W15	4
		MCST	973017	MONITOR-MULTI-GAS SYSTEM	25	4	13-80630		INSPS-CHECK FOR PROPER OP REQ BY R BARTON JR		RBJ		20121003	W38	5
		MCST	973029	BUBBLER	25	4	13-81908		INSPS/ REPAIR LEAK (BLEED stielperc 64972		CS		20130327	W18	6
		MCST	973017	MONITOR-MULTI-GAS SYSTEM	25	4	16-80023		INSPS-CHECK GAS METER ALA CLEAR.		HJ		20150716	W41	7
		MCST	973017	PANEL-TELEPHONE	25	4	16-80894		INSPS/ VERIFY CONDUIT TO see Chris t run Fish tape out) 64972		CS		20151028	W15	8
		MCST	973017	MONITOR-MULTI-GAS SYSTEM	25	4	16-81879		INSPS-CHECK GAS METER/ALA off		HJ		20160204	W15	9
		MCST	973017	MONITOR-MULTI-GAS SYSTEM	25	4	17-80352		INSPS/ INSPECT UNIT OPERA Alarm wont clear 64972		CS		20160804	W15	10
		MCST	973000	FACILITY-MCOMMS	25	4	17-81843		INSPS-REMOVE WIRE FOR LAM volumock 6-4972		VD		20170216	W15	11
		QIAD	930003	CONTROLLER PROGRAMMABLE	25	30	17-80384		INSPS/REPAIR THE OIT SCRE stielperc 64972		CS		20160810	W15	12
		QIAD	930002	FLOW INDICATING RECORDER/	25	4	14-82155		INSPS-REPAIR CHART PEN HO stielperc 64972		CS		20140314	W15	13
		QIAD	930017	DETECTOR-BAR SCREEN GAS	25	4	15-81043		INSPS- REPLACE BAD MONITO RED BY R BARTON JR		RBJ		20141228	W15	14
		QIAD	930002	FLOW INDICATING RECORDER/	25	4	16-81890		INSPS-ARM ON RECORDER NOT H. JOHNSON 6-4972		HJ		20160216	W23	15
		QIAD	930018	DETECTOR-MET HELL GAS	25	4	16-82377		INSPS/ MAKE NECESSARY REP (not working) stielperc 64972		CS		20160427	W15	16
		QIAD	930018	DETECTOR-MET HELL GAS	25	4	17-82151		INSP-REPLACE GAS DETECTOR replace gas detector not working volumock 65194		VD		20170331	W15	17
		QIAD	930018	DETECTOR-MET HELL GAS	25	4	17-82806		INSPS-REPLACE BAD SENSORS the sensors are bad in the wet well area need to be replaced		VD		20170510	W21	18
		STRAIN	991167	PANEL-VPD CONTROL #1 (NSP)	25	30	15-82015	2	INSPS/ELPCS-REPAIR FAULT (f-8 over temp) stielperc 64972		CS		20150416	W15	19
		STRAIN	991171	PANEL-VPD CONTROL #1 (NSP)	25	4	12-80847		INSPS/ELPCS-REPAIR FAULT (f-8 over temp) stielperc 64972		CS		20110916	W05	20
		STRAIN	991174	METER-FLOW METER	25	4	14-82454		INSPS/ TROUBLE SHOOT PLC stielperc 64972		CS		20140505	W15	21
		STRAIN	991203	METER-INFLUENT FLOW	25	4	16-80663		INSPS/ REPAIR REPLACE FLO (36 " incoming not reading flow in stielper 64972		CS		20150922	W15	22
Total * INSPS * Work Orders: COUNT 59															
DUNDAL		940001	METER-FLOW TRANSMITTER	25	30	13-80022			INST-TO ORDER DP TRANSMIT FOR REPLACEMENT. SEE C.Hellis/R. Barton 6-9744		CDM	INST	20120719	W15	23
QIAD		930018	DETECTOR-MET HELL GAS	25	4	17-82151			INSP-REPLACE GAS DETECTOR replace gas detector not working volumock 65194		VD		20170331	W15	24
Total * INST * Work Orders: COUNT 2															
DUNDAL		941102	PUMP-SEWAGE #2	25	4	17-00019			PCFAB-REPAIR WEAR RING/SE H. HOOKS 69733		WH	MEHFB	20160719	W39	25
EASTER		9414	TRAILER-GRASS	25	4	17-00005			FR/ REPAIR BEAT TRAILER J stielperc 64972		CS		20160706	W15	26
EASTER		91904	DUMPSTER (NORTH)	25	4	17-00020			PCFAB-REPLACE ALL FOUR.WH H. JOHNSON 6-4972		HJ		20160719	W39	27
EASTER		91903	DUMPSTER (SOUTH)	25	4	17-00021			PCFAB-REPAIR WHEELS-HILL. H. JOHNSON 6-4972		HJ		20160719	W39	28
EASTER		911000	FACILITY-EASTERN AVENUE	25	4	17-82112			PCFAB-FABRICATE CALUPET F /air condition system to hide pipes in front office		HJ		20170308	W31	29
EASTER		91903	DUMPSTER (SOUTH)	25	4	17-82115			PCFAB-REPAIR WHEEL ON DM H. JOHNSON 6-4972		HJ		20170523	W15	30
JF		924302	DRIVE-#2 BAR SCREEN	25	4	16-81721			PCFAB-FABRICATE NEW SHAFT REQ BY H. HOOKS 69733		HJ		20160127	W34	31
JF		924301	DRIVE-#1 BAR SCREEN	25	4	17-81056			PCFAB-MAKE SIX STUB SHAFT S FOR THE STATION.REQ BY H. HOOKS 69733(SEE HAULT)		WH		20161114	W54	32
JF		925732	DUMPSTER-#2002(SCREEN RM)	25	4	17-81285			PCFAB-REPLACE WHEEL-CORIN H. JOHNSON 6-4972		HJ		20161227	W15	33
JF		924101	SCREEN-BAR #1 (FRONT CLEAN)	25	4	17-82805			PCFAB-MACHINE PARTS FOR R REQ BY H. HOOKS 69733		WH		20170310	W54	34
QIAD		931202	MOTOR-#2 SEWAGE PUMP(SUMP)	25	3	17-82810			PCFAB-REPAIR SHAFT REQ.T. SMITH 6-9700		THS		20170516	W54	35
Total * MEHFB * Work Orders: COUNT 11															
BRKLYN		950052	LOOP 151.DISC.PRESS-STATI	25	30	17-82736		2	PCFAPS- MAKE PIPE LINE FOR SEE JOHN OR TONIA IN INST SHUP		RBJ	MEHPS	20170504	W15	36
BRKLYN		952801	TANK-HYDRO-PNEUMATIC SEAL	25	4	14-80966		2	PCFAPS-ELPCS-CHECK SYSTEM pressure. stielperc 64972		CS		20131003	W38	37



Co. No.	Area	Machine No.	Machine Description	WO Sts	Plnt Prty Code	Short Problem Description	Full Problem Description	Req. Code	Craft No	Work Stat
								By	Issue Date	Type
80		SNAGNY 998806	FACILITY, SH SANITATION	25	4	17.90082	WINDOWS, DEMO WALLS AND REBUILD WALLS WITH DOOR AT THE REEDS CC	BLDG	20170321	W08
		SNAGNY 998806	FACILITY, SH SANITATION	25	4	17.90083	office floors at reedbird bldg. req by c carter sr per MRS L CC	BLDG	20170321	W08
Total * BLDG * Work Orders: COUNT 2										
Area * * Work Orders: COUNT 2										
MISC										
		CITYWD 998900	MISC. CITY WIDE PROJECTS	25	4	17.90108	BLDG-S TO SCRUB and shampoo carpet in conference room and supervisor office	CC	20170427	W00
		ISPTBH 982000	FACILITY, ISL. PT. BOAT HOUS	25	3	17.90078	BLDG. - BACKUP / SEE JERH REQUESTER: JEAN DASHIELL, 6-9700.	JD	20170316	W05
		PETER 980013	FACILITY, MT. WASHINGTON ME	25	4	11.95141	BLDG-PAINT-PAINT BLDG WHI REQ BY R BARTON JR	RB	20110310	W26
		PETER 980014	FACILITY, FALKIRK METERING	25	4	12.95152	BLDG-BUILD STEPS FOR STAT REQ BY R BARTON JR PER ANDRKE'	RB	20120315	W08
		PETER 980007	FACILITY, BOSTON AVE. STA.	25	4	15.95013	BLDG-PAINT-PAINT BOX AT S REQ BY R BARTON JR	RB	20140729	W26
		PETER 980005	FACILITY, CAMERON DRIVE ST	25	4	15.95014	BLDG-PAINT-PAINT BOX AT REQ BY R BARTON JR	RB	20140729	W26
		PETER 980004	FACILITY, LONG PLACE STA.	25	4	15.95015	BLDG-PAINT-PAINT BOX AT REQ BY R BARTON JR	RB	20140729	W26
		PETER 980014	FACILITY, FALKIRK METERING	25	4	15.95016	BLDG-PAINT-PAINT BOX AT REQ BY R BARTON JR	RB	20140729	W26
		PETER 980016	FACILITY, FOWERTELL METER	25	4	15.95017	BLDG-PAINT-PAINT BOX AT REQ BY R BARTON JR	RB	20140729	W26
		PETER 980011	FACILITY, FURNELL DRIVE	25	4	15.95018	BLDG-PAINT-PAINT BOX AT REQ BY R BARTON JR	RB	20140729	W26
		PETER 980009	FACILITY, HERRING RUN STA.	25	4	15.95019	BLDG-PAINT-PAINT BOX AT REQ BY R BARTON JR	RB	20140729	W26
		PETER 980000	FACILITY, METERING STATION	25	4	16.95103	BLDG-PAINT-PAINT ALL OF T REQ BY R BARTON JR	RB	20160621	W26
		MURBLD 992500	MUNICIPAL BUILDING	25	4	14.95124	BLDG-S TO PAINT OFFICES AND STRIP,POP AND WAX FLOORS AT MUNICIPAL BLDG. REQ BY C CAR CC	CC	20140630	W26
		PARKTE 992400	PARK TERMINAL (UTILITIES)	25	4	14.95121	ELEC/BLDG INSTALL PANEL A circuits for computers,coffeemaker and other equipment	DTS	20140630	W22
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	16.95012	BLDG-DELIVER 5 PALLETS OF from the storeroom to our storage building over behind EP	EP	20150928	W04
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	30	16.95024	BLDG-SINK LEAKING INTO FL. There is a maintenance problem/health issue with the men's	EP	20151027	W02
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	13.95003	BLDG. - INSTALL SOPA DISPE REQUESTER: P. BOYLE, 6-9635.	PB	20120725	W15
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	14.95036	BLDG. - NEW LOADING DOCK. NG / ALSO MAKING A LOUD SEALING SOUND	PB	20130919	W09
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	16.95013	BLDG-TUNE & TUNE CARTRDGS to the electronics recycling area at Maintenance.	PB	20150930	W00
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	16.95030	BLDG-COTPODES IN B110 RIN continuously.	EP	20151118	W71
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	16.95078	BLDG-S TO PAINT FLOOR ground floor, offices and cubicles at pollution control area CC	CC	20160428	W26
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	16.95079	BLDG-S TO STRIP, WAX AND mop hallways, offices and cubicles at pollution control area CC	CC	20160428	W24
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	16.95102	BLDG-LOADING DOOR DOOR NO REPORTED BY PAT BOYLE	PB	20160617	W08
		FOLCON 999000	FACILITY, POLLUTION CONT.	25	4	17.90036	BLDG-S TO CLEAN MOLD on floor tile in pollution control. req by c carter sr. 6-97 CC	CC	20161101	W00
		WASE 990001	WAREHOUSE #5	25	4	16.95075	BLDG-PATCH HOLE FROM DEMO REQ BY MATT	ME	20160426	W08
Total * BLDG * Work Orders: COUNT 26										
Area * * Work Orders: COUNT 26										
		CITYWD 998900	MISC. CITY WIDE PROJECTS	25	4	SNY 12.96082	3 DRAF-PRODUCE DRAWINGS FOR ADDED BY J.BRYAN	JD	20111028	W43
Total * DRAF * Work Orders: COUNT 1										
MISC										
		ASHBOR 992200	ASHBRIKTON FILTRATION FLT.	25	30	14.95062	ELEC-ASSIST KEN HUEBNER'S repairing road lights at 3001 Druid Park Drive phone #	RLS	20131031	W20
		CITYWD 998900	MISC. CITY WIDE PROJECTS	25	2	14.95100	MECH/ELEC/GRDS/BLDG/STORM METERS ON OVERTIME.	JMD	20140307	W09
		ISPTBH 982000	FACILITY, ISL. PT. BOAT HOUS	25	4	13.95152	ELEC-PURCHASE AND INSTALL 2 tandem breakers to separate and install 2 new outlie	W28	20130619	W28
		ISPTBH 982102	HEATER, HOT WATER	25	4	13.95154	ELEC-PURCHASE AND INSTALL ter for building. Heater, that was bought was wrong.	GSD	20130619	W28
		PARKTE 992400	PARK TERMINAL (UTILITIES)	25	4	14.95121	ELEC/BLDG INSTALL PANEL A circuits for computers,coffeemaker and other equipment	DTS	20140630	W22
		PARKTE 992400	PARK TERMINAL (UTILITIES)	25	4	14.95150	ELEC-PEDESTAL SWP PUMP T breaker and needs to be replaced	DTS	20140617	W15

Co. No.	Area	Machine No.	Machine Description	WO Sts	Pthr Code	W/O Number	Short Problem Description	Full Problem Description	Req. By	Craft Code	WO Issue Date	Wk Sht Typ	Clis
80	MISC	POLCON 999000	FACILITY, POLLUTION CONT.	25	4	14.95086	ELEC. - EXTS. 6-9698 & 969 WORKING		PB	ELEC	20140207	W44	
		POLCON 999000	FACILITY, POLLUTION CONT.	25	4	17.00002	ELEC-STAIRWELL LIGHTS OUT SEE REQUESTER PAT BOYLE		PB		20160711	W42	
		WASE 990001	WAREHOUSE #5	25	30	15.95129	ELEC-LINE DOWN Jeff Jones from Anchor Western just called me.		JAD		20150603	W22	
		WASE 990001	WAREHOUSE #5	25	4	16.95062	ELEC-RUN NEW CONDUIT AND BREAKERS FOR PROBABLE HEATERS		GEO		20151211	W15	
				Total * ELEC * Work Orders:		COUNT 10							
		PETER 980012	FACILITY, FREDRICK RD. PETE	25	4	15.95020	GRDS-HED- CLEAN FLAME AT	RED BY R BARTON JR	RBJ	GRDS	20140729	W45	
		PETER 980005	FACILITY, CAMPBON DRIVE ST	25	4	16.95104	GRDS-SET ROD FLAME FOR ST	RED BY R BARTON JR	RBJ	GRDS	20160623	W45	
				Total * GRDS * Work Orders:		COUNT 2							
		POLCON 999000	FACILITY, POLLUTION CONT.	25	30	17.90005	HA-THE COOLING SYSTEM IS functioning very well. Could you please investigate why the	PB	HA		20160728	W19	
		POLCON 999001	REFRIGERATOR	25	30	17.90009	HA-CHECK FOR PROPER OPERA AS NEEDED. RED BY P. BOYLE.		PB		20160803	W19	
		WASE 990001	WAREHOUSE #5	25	4	14.95082	HA-HO HEAT SEE R.HENDERSON		RH		20140113	W19	
				Total * HA * Work Orders:		COUNT 3							
		PETER 980001	FACILITY, WALKER AVE. STA.	25	4	16.95100	INSPS- RESTORE PROGRAM BA RED BY R BARTON JR		RBJ	INSPS	20160615	W21	
				Total * INSPS * Work Orders:		COUNT 1							
		CITYHD 999900	MISC CITY WIDE PROJECTS	25	3	17.90107	MCFPB-MACHINE CLAND BOLTS RED.T.SMITH 6-9700		THS	MCFPB	20170421	W24	
		PARKTE 992400	PARK TERTIINAL (UTILITIES)	25	3	17.90086	MCFPB-FABRICATE STRUCTURE RED.T.SMITH 6-9733		THS		20170120	W29	
		WATERS 992000	WATERSHEDS(LIBERTY,PRETTY)	25	2	17.90106	MCFPB-REMOVE VAULT COVERS RED BY L.AMAMIA PER A. JOHNSON		LWA		20170412	W15	
				Total * MCFPB * Work Orders:		COUNT 3							
		POLCON 999000	FACILITY, POLLUTION CONT.	25	2	17.90010	MECH-TOILETS IN THE LADIE backing up through the floor drain (could signal problem		PB	MECH	20160810	W25	
				Total * MECH * Work Orders:		COUNT 1							
		CITYHD 999900	MISC CITY WIDE PROJECTS	25	4	PKA 12.95092	2 PENS/MCFPB-FAB AND INSTAL STORM WATER MAINTENANCE.LOCATION 1601 WEST BALTO. ST.		JDB	PENG	20111025	W31	
		CITYHD 999900	MISC CITY WIDE PROJECTS	25	4	JDB 12.95201	2 PENS-INVESTIGATE FLOOD DO AT LOCH RAVEN DAM.		JDB		20120515	W21	
				Total * PENG * Work Orders:		COUNT 2							
		CITYHD 999900	MISC CITY WIDE PROJECTS	25	2	14.95100	5 MECH/ELEC/GRDS/BLDG/STORM METERS ON OVERTIME.		JAD	STORM	20140307	W29	
				Total * STORM * Work Orders:		COUNT 1							

APPENDIX 5

SUMMARY OF REPORTED OVERFLOWS

Engineered SSOs

SSO No. 67

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
3/31/17	75.4	1.33
4/6/17	96.2	1.82
5/5/17	97.0	1.75

SSO No. 72

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
3/31/17	111.9	1.33
4/6/17	116.1	1.82
5/5/17	118.0	1.75

SSO No. 135

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
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None Reported this Quarter

SSO No. 137

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
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Flow monitor removed on July 1, 2015 for construction



SSO No. 138

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
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None Reported this Quarter

SSO No. 139

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
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4/6/17	53.2	1.53
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5/5/17	51.8	1.72
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SSO No. 150

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
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None Reported this Quarter

SSO No. 151

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
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None Reported this Quarter

SSO No. 152

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
3/31/17	2.7	1.34
4/6/17	4.4	1.65
5/5/17	2.6	1.5

SSO No. 153

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
None Reported this Quarter		

SSO No. 154

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
None Reported this Quarter		

SSO No. 155

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
None Reported this Quarter		

SSO No. 156

<u>Date</u>	<u>Surcharge Depth (in)</u>	<u>Rainfall (in)</u>
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None Reported this Quarter

Pumping Station Overflows

<u>Pumping Station</u>	<u>Date</u>	<u>Volume Loss (gal)</u>	<u>Rainfall (in)</u>
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None Reported this Quarter

Wastewater Treatment Plant Overflows

<u>WWTP</u>	<u>Date</u>	<u>Volume Loss (gal)</u>	<u>Rainfall (in)</u>
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Patapsco		None Reported this Quarter	
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Back River	5/26/17*	Unknown	0.00
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* Note: This occurrence was at the Back River Treatment Plant. The spill was several hundred gallons onto the roadway from a hauler. Maintenance cleaned up the spill with a soaking agent and then scooped the material away. No material entered the storm drain.

City of Baltimore
Un-Permitted Sanitary Sewer Overflows
For Calendar Quarter Ending June 30, 2017

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
4/1/2017	8	Rags	0	N/A	301 Scott St	21230
4/1/2017	12	Rags, Roots, Trash	0	N/A	1063 Cameron Rd (Private)	21212
4/2/2017	83	Rags, Roots	0	N/A	3322 James St	21230
4/2/2017	10	Roots	0	N/A	2202 E Fairmount Ave	21231
4/3/2017	11	Rags	0.16	N/A	1020 N Payson St	21217
4/3/2017	1,147	Structural	0.16	Jones Falls	5600 Roxbury Pl	2120
4/3/2017	316	Rags, Grease, Trash	0.16	N/A	1910 Ramblewood Rd	21239
4/4/2017	10	Rags	0.01	N/A	619 N Calhoun St	21217
4/5/2017	464	Rags, Grease, Trash	0	N/A	600 W Patapsco Ave	21225
4/6/2017	134,000	Rain	1.74	Jones Falls	N Charles St & W Lanvale St - SSO #152	21202
4/6/2017	73,000	Rain	1.74	Jones Falls	W Garrison Ave & Queensberry Rd - SSO #139	21215
4/6/2017	745,000	Rain	1.74	Jones Falls	1901 Falls Rd - SSO #67	21218
4/6/2017	2,158,000	Rain	1.74	Jones Falls	428 E Preston St - SSO #72	21202
4/7/2017	2	Rags, Trash	0	N/A	2780 Wilkens Ave	21223
4/8/2017	270	Rags, Grease, Trash	0	N/A	424 Font Hill Ave	21223
4/8/2017	12	Rags, Trash	0	N/A	W Franklin St & N Payson St	21223
4/9/2017	5	Rags	0	N/A	2700 Rittenhouse Ave	21230
4/10/2017	146	Rags, Roots	0	N/A	6303 Lincoln Ave	21209
4/10/2017	18	Rags, Trash	0	N/A	3404 Mueller St	21224
4/10/2017	11	Rags	0	N/A	1126 Shields Pl	21201
4/11/2017	3,425	Rags, Grease, Trash	0	Gwynns Falls	Edmondson Ave & Hilton Pkwy	21229
4/11/2017	5	Roots, Trash	0	N/A	3801 Greenmount Ave	21218
4/12/2017	12	Rags, Roots	0	N/A	3222 Lyndale Ave	21213
4/12/2017	1,798	Roots, Grease, Vandalism	0	N/A	6104 Ivymount Rd	21209
4/13/2017	5	Roots, Grease, Trash	0	N/A	4803 Lindsay Rd	21229
4/14/2017	11	Rags, Roots, Trash	0	N/A	3025 Oakley Ave	21215
4/15/2017	194	Rags, Trash	0.16	N/A	2725 Jefferson St	21224
4/18/2017	15	Rags, Roots	0	N/A	2800 Forest View Ave	21214
4/18/2017	92	Sand, Gravel, Rocks, Structural	0	N/A	604 Venable Ave	21218
4/21/2017	20	Rags, Roots, Trash	0	N/A	6303 Clearspring Rd	21212
4/21/2017	35	Rags, Trash, Sand, Gravel, Rocks	0	N/A	2429 Ashland Ave	21205
4/21/2017	465	Rags, Grease	0	Herring Run	E Cold Spring Ln & Old York Rd	21212
4/24/2017	420	Rags, Grease, Trash	0.01	N/A	3705 Everett St	21225
4/25/2017	1,400	Rags, Roots, Trash	0.66	N/A	4611 Briarclift Rd	21229
4/25/2017	413	Rain	0.66	Jones Falls	N Charles St & W Lanvale St - SSO #152	21201
4/26/2017	2	Rags, Trash, Sand, Gravel, Rocks	0	N/A	2829 Presstman St	21216
4/26/2017	6	Rags, Trash, Sand, Gravel, Rocks	0	N/A	N Smallwood St & Presstman St	21216
4/27/2017	12	Rags, Grease, Trash	0	N/A	2733 Rayner Ave	21216
4/29/2017	1,395	Rags, Roots, Grease, Trash	0	N/A	202 Longwood Rd (Private)	21210
5/1/2017	2	Rags, Roots	0	N/A	5224 York Rd	21209
5/1/2017	4	Rags, Trash	0	N/A	4907 Frankford Ave	21206
5/1/2017	10	Structural	0	Herring Run	5921 Moravia Park Dr (Private)	21206
5/1/2017	124	Rags, Roots	0	N/A	2001 E 30th St	21218
5/3/2017	2,800	Rags, Trash	0	N/A	601 W Patapsco Ave (Private)	21225
5/3/2017	10	Rags, Trash	0	N/A	1800 Washington Blvd (Private)	21230
5/4/2017	12	Rags, Grease	0.04	N/A	4108 Hayward Ave	21215
5/5/2017	5	Rags, Trash	0.08	N/A	1814 N Bond St	21213
5/5/2017	450,000	Rain	0.08	Jones Falls	1901 Falls Road - SSO #67	21217
5/5/2017	2,618,000	Rain	0.08	Jones Falls	428 E Preston St - SSO #72	21202
5/5/2017	32,000	Rain	0.08	Jones Falls	W Garrison Ave & Queensberry Rd - SSO #139	21215
5/5/2017	63,000	Rain	0.08	Jones Falls	N Charles St & W Lanvale St - SSO #152	21201
5/6/2017	258	Rags, Grease, Trash	0	N/A	1400 N Dukeland St	21216
5/6/2017	6	Rags, Roots	0	N/A	4201 Kenshaw Ave	21215
5/6/2017	2	Rags, Roots	0	N/A	5502 Benton Heights Ave	21206
5/7/2017	15	Rags, Grease	0	N/A	215 Beale Ct	21231
5/8/2017	84	Roots, Grease, Trash	0	N/A	413 Wingate Rd	21210
5/8/2017	170	Roots, Grease	0	N/A	633 Roland Spring Dr	21212
5/9/2017	5	Roots, Sand, Gravel, Rocks	0	N/A	638 Oldham St	21224
5/9/2017	5	Rags, Roots	0	N/A	4532 Harford Rd	21214
5/9/2017	8	Rags, Trash	0	N/A	4110 Hayward Ave	21215
5/10/2017	3	Rags, Trash	0	N/A	2219 E Lombard St	21231



City of Baltimore
Un-Permitted Sanitary Sewer Overflows
For Calendar Quarter Ending June 30, 2017

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
5/10/2017	33	Rags, Roots	0	N/A	3105 Puget St	21230
5/13/2017	5,075	Rags, Structural	0	N/A	4613 Briarclift Rd	21229
5/15/2017	1,225	Rags, Grease	0	Jones Falls	1612 Aisquith St	21202
5/16/2017	9	Rags, Grease, Trash	0	N/A	2801 Presbury St	21216
5/16/2017	4,760	Rags, Trash, Sand, Gravel, Rocks	0	Gwynns Falls	Wilkens Ave & Hurley Ave	21223
5/18/2017	186	Rags, Grease, Trash	0	Herring Run	1908 Ramblewood Rd	21239
5/19/2017	21	Rain	0.43	Jones Falls	N Charles St & W Lanvale St - SSO #152	21201
5/20/2017	9	Rags, Grease	0	N/A	421 E 22nd St	21218
5/20/2017	4	Rags, Roots	0	N/A	1631 Gwynns Falls Pkwy	21217
5/21/2017	5	Rags, Grease, Other	0	N/A	1908 Ramblewood Rd (Private)	21239
5/22/2017	9	Rags, Roots	0.1	N/A	1010 Whistler Ave	21223
5/22/2017	4	Roots, Grease, Trash	0.1	N/A	809 N Caroline St	21205
5/22/2017	455	Trash	0.1	N/A	1207 Springfield Ave	21239
5/23/2017	12	Structural, Unknown	0	N/A	1823 McCulloh St	21217
5/24/2017	558	Rags, Trash	0.05	N/A	2801 N Dukeland St (Private)	21216
5/24/2017	4	Rags, Trash	0.05	N/A	5700 Belair Rd	21206
5/25/2017	2,550	Rain	0.94	Jones Falls	N Charles St & W Lanvale St - SSO#152	21201
5/25/2017	3,215	Rain	0.94	Jones Falls	N Charles St & W Lanvale St - SSO #152	21201
5/26/2017	UNK	Other	0	N/A	8201 Eastern Ave*	21224
5/28/2017	3	Rags, Trash	0.05	N/A	902 Reverdy Rd	21212
5/30/2017	2,040	Rags, Roots	0	N/A	2400 Cylburn Ave	21209
5/30/2017	5	Trash, Structural	0	N/A	3718 Delverne Rd	21218
6/1/2017	186	Rags, Roots, Grease, Trash	0	N/A	Frankford Estates Dr & Denview Way	21206
6/1/2017	4	Rags, Roots, Trash	0	N/A	6001 Bonnie View Dr	21209
6/2/2017	2	Rags, Roots, Trash	0	N/A	1521 Leslie St	21217
6/5/2017	5	Rags	0.06	N/A	622 N Pulaski St	21229
6/5/2017	5	Rags, Grease	0.06	N/A	120 S Monastery Ave	21229
6/8/2017	124	Rags, Roots	0	N/A	2546 Marbourne Ave	21230
6/9/2017	4	Roots, Trash	0	N/A	5524 Hilltop Ave	21206
6/9/2017	44	Roots, Grease, Trash	0	N/A	1717 E Fairmount Ave	21231
6/10/2017	7	Grease, Trash	0	N/A	2257 Cedley St	21230
6/12/2017	1,200	Rags, Roots, Trash	0	N/A	1876 Mansion House Dr (Private)	21211
6/12/2017	149	Sand, Gravel, Rocks, Structural	0	N/A	1128 W Lafayette Ave	21217
6/12/2017	5	Rags, Roots	0	N/A	5656 The Alameda	21239
6/12/2017	6	Roots, Trash	0	N/A	1391 Limit Ave	21239
6/13/2017	6	Rags	0	N/A	2012 Ramsay St	21223
6/14/2017	6	Rags, Grease, Trash	0	N/A	428 E Preston St	21202
6/14/2017	63	Grease	0	Gwynns Falls	115 N Kossuth St	21229
6/14/2017	5	Rags, Roots, Grease	0	N/A	1706 E 30th St	21218
6/14/2017	8	Roots, Sand, Gravel, Rocks	0	N/A	534 E Clement St	21230
6/14/2017	5	Rags, Roots	0	N/A	3118 N Calvert St	21218
6/18/2017	7	Grease	0	N/A	4624 Reisterstown Rd	21215
6/18/2017	1,905	Rags, Grease, Trash	0	Harbor	N Kenwood Ave & E Preston St	21213
6/19/2017	4,820	Rags, Grease, Trash	0.46	N/A	2200 Angelica Ter	21209
6/19/2017	14,725	Rain	0.46	Jones Falls	N Charles St & W Lanvale St - SSO #152	21201
6/20/2017	80	Rags, Rain, Trash	0	N/A	4505 Prospect Cir	21216
6/21/2017	252	Rags, Roots	0.03	N/A	3639 Benson Ave	21227
6/25/2017	15	Rags, Trash	0	N/A	Harford Rd & E 30th St	21218
6/26/2017	5	Rags, Grease, Trash	0	N/A	3118 N Calvert St	21218
6/29/2017	15	Infiltration, Structural	0	N/A	2304 Hillhouse Rd	21207

* Note: This occurrence was at the Back River Treatment Plant. The spill was several hundred gallons onto the roadway from a hauler. Maintenance cleaned up the spill with a soaking agent and then scooped the material away. No material entered the storm drain.

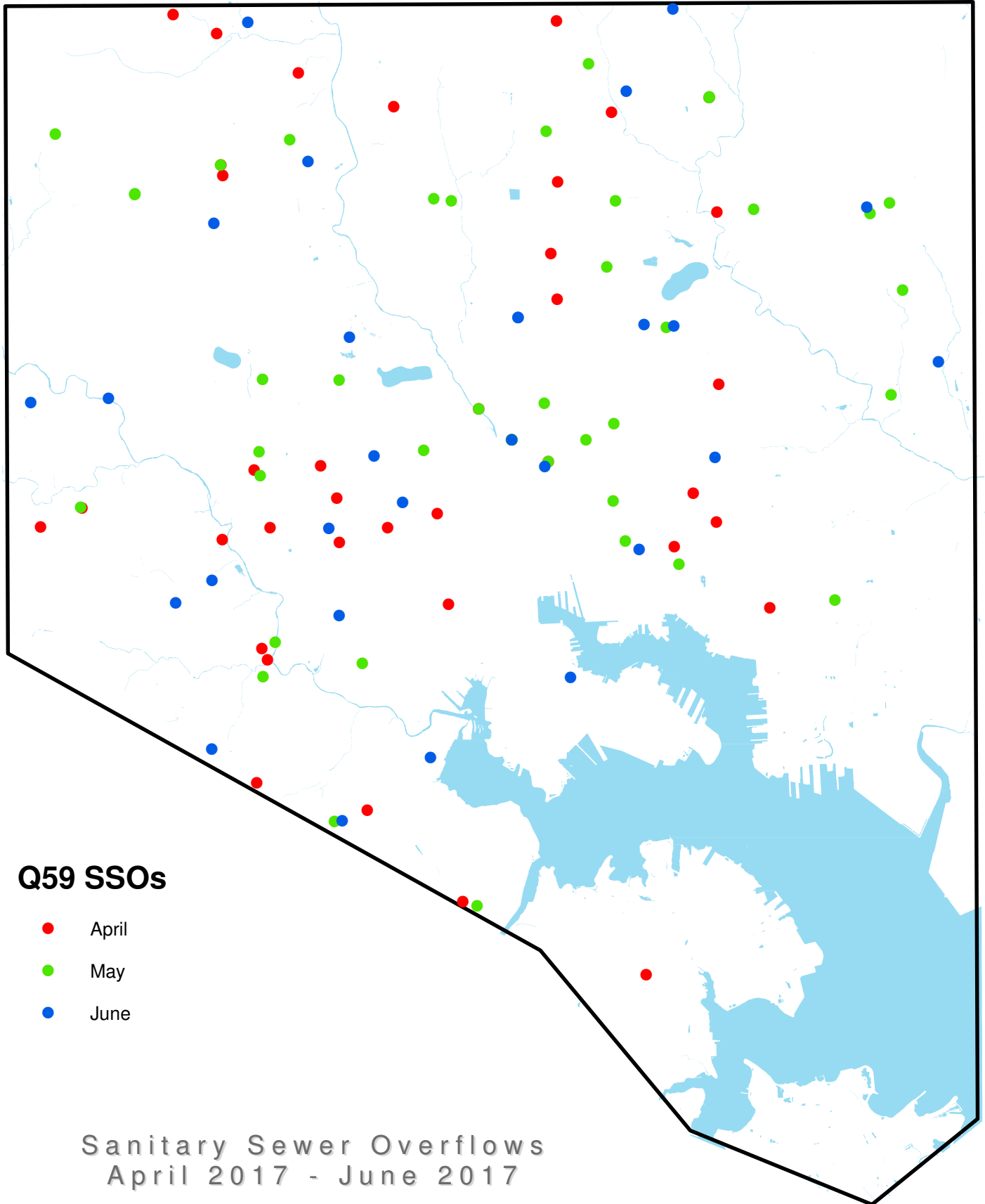


SDUOs
Updated through June 30, 2017

No.	SDUO No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge in Gallons (7, 8, 9)	Measures Taken to Identify Source or Resolve	Future/Planned Work
1	15JF05	7/30/2015	224 38th Street (Private)	21218	Jones Falls	Resolved	630	81,648	Failure in the sanitary house connection. Point repair has been completed. DPW staff has been pending DPW staff access to the property. More communication has been on-going with the owner to gain access to the property. More samples have been collected to evaluate the status of the SDUO. Communication is still on-going. Plumber located the source of discharge on the property. Awaiting repair to be completed. In communication with plumber and property owner. SDUO is no longer active.	Work has been completed. Waiting for owner to allow access to the property to confirm abatement. Continue monitoring and collecting samples to confirm abatement. Working with owners to allow access to the property to determine the source of the sewage. DPW staff has been pending DPW staff access to the property. More communication has been on-going with the owner to gain access to the property. More samples have been collected to evaluate the status of the SDUO. Communication is still on-going. Plumber located the source of discharge on the property. Awaiting repair to be completed. In communication with plumber and property owner. Work has been completed which abated SDUO.
2	16BR01	3/1/2016	1501 Hartsdale Road (Public)	21239	Back River	Resolved	462	3,486	Sewage is leaving 21" interceptor from unknown source (discharge estimated to be 0.25 Gall/min). Lining has been performed for two segments of this line. Flow has dropped after Lining. Lining has been scheduled to be replaced under consent decree project. Underdrain was detected, proper measurements were taken to abate SDUO.	SDUO is no longer active.
3	16HB01	4/15/2016	Perkins homes (Private)	21017	Harbor	Not resolved	On-going	456,624	Two laterals found leaking to the storm system. CCTV and dye tests were performed. DPW staff has been pending DPW staff access to the property. Property manager has been assigned to perform the required work. DPW staff met with property manager to determine the scope of work and finalize the schedule. Work has been scheduled to be completed by December 2016. Owner (HABC) has been working on scheduling a contractor to repair sanitary line.	Work has been assigned. Waiting for assigned work to be completed to confirm abatement. Delay due funding issues. Contractor has sent the schedule to complete the required work, work should be completed by Dec 2016. Owner is in the process of engaging contractor to perform the required abatement work. Communication is on-going to find a resolution
4	16HB03	9/2/2016	Perkins Homes (Ballou Court) (Private)	21017	Harbor	Not resolved	On-going	450,720	Damaged private sanitary line. Property management has been contacted to take action. Contractor was assigned to replace 150' of sanitary line. Work should be completed by Dec 2016. Owner (HABC) has been working on scheduling a contractor to repair sanitary line.	Work should be completed by Dec 2016. Owner is in the process to engage contractor to perform the required abatement work. Communication is on-going to find a resolution.
5	16JF04	11/1/2016	2900 Block of Woodland Ave	21215	Jones Falls	Not resolved	On-going	18,216	relatively high ammonia values. Sewage is leaving laterals in small volume. Lateral launching has been performed to determine the integrity of the laterals. 3 laterals have been repaired/defined. Sewage volume has dropped/identified leaking House connection transferred to SSO on 3/10/2017 (SSO ID: 4747). Repairs have been completed. Monitoring system to clear residuals to confirm abatement.	More investigations are on-going to determine the source of the sewage. Work has been completed. In monitoring stage to confirm abatement.
6	16GF01	11/14/2016	4500 Block of Wakefield Rd	21216	Gwynns Falls	Not Resolved	On-going	3,456	High ammonia readings without noticeable sewage source. CCTV laterals and dye testing have been performed. Reason for high ammonia readings has not been determined. More sampling and investigation has been in progress to determine the issue.	More investigations are on-going to determine the source of the sewage.
7	16JF05	11/21/2016	5400 Block of Purlington Way	21212	Jones Falls	Abated	205	25,985	High ammonia readings without noticeable sewage source. Heavy cleaning and dye tests have been performed. More investigations have been on-going to determine the source of the sewage. Intensive cleaning for SD has been completed. On 03/09/17, 2 SSOs were reported (4746, 4745); address : 5407 and 4515 Purlington way. Send to on-call contractor, waiting for repair. Repair has been completed. SDUO is no longer active.	CCTV and dye testing upon completion of repair work. SDUO is abated
8	17BR01	3/3/2017	Chesterfield Ave & Kavon Ave	21206	Back River	Not Resolved	on-going	3,802	Sanitary lateral is leaking to inlet. Investigation has been on-going to determine the location of the leak. Point repair has been done. 12 ft of sanitary lateral has been replaced. In monitoring stage to confirm abatement.	More investigations are on-going to determine the source of the sewage. Point repair was performed. Under monitoring to confirm abatement.

SDUOs
Updated through June 30, 2017

No.	SDUO No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge in Gallons (7, 8, 9)	Measures Taken to Identify Source or Resolve	Future/Planned Work
9	17JF01	3/30/2017	5114 N Charles St, Friends School	21210	Jones Falls	Not Resolved	on-going	299,520 A	Sewage found discharging from outfall on Friends school property. All assets are private. School is currently taking corrective actions. School has repaired a collapsed sewer line. Small portion of the problem is still unknown. School has engaged on-call contractor to assess the entire sewer system to determine the source of the sewage.	School hired a contractor to CCTV and map their entire system to spot any defects. Work has been in progress.
10	17HB01	4/21/2017	2024 Fleet Street	21231	Harbor	Resolved	26	195 A	Residential building found connected to the storm system. Proper measurements were taken. New lateral was installed which abated SDUO.	SDUO is abated.
11	17JF02	6/1/2017	101 W Read Street	21201	Jones Falls	Not resolved	41	354,240 V	Portion of apartment building found connected to the storm. DPW is working with owner to take the proper measurement. Issue has been escalated to abate SDUO ASAP.	Abatement is in-progress.
12	17JF03	6/8/2017	221 W Read Street	21201	Jones Falls	Not resolved	34	3,427 V	Business found connected to the storm. Owner has been engaged to take the proper measurement.	Abatement has been scheduled.



Q59 SSOs

- April
- May
- June

Sanitary Sewer Overflows
April 2017 - June 2017

