

CITY OF BALTIMORE

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DEPARTMENT OF PUBLIC WORKS

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July 23, 2015

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. 51
For Calendar Quarter Ending June 30, 2015**

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. 51, for the Calendar Quarter ending June 30, 2015.

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July 23, 2015
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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,



Kumasi Vines, Acting Bureau Head
Water & Wastewater

Enclosures

KV/ajd

cc: Rudolph Chow, P.E.
Dana Cooper, Esquire
Ms. Dawn Lettman
Mr. George Nilson
Thomas Lingan, Esquire
Mr. Mike Gallagher
Art Shapiro, P.E.
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File

City of Baltimore Sanitary Sewer Overflow Consent Decree

Civil Action No. JFM-02-1524

Calendar Quarterly Report No. 51
For Calendar Quarter ending June 30, 2015

*Submitted:
July 30, 2015*

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

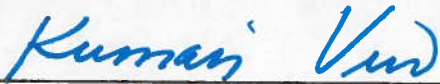
*Prepared By:
City of Baltimore
Department of Public Works,
Bureau of Water and Wastewater*



Civil Action No. JFM-02-1524
Calendar Quarterly Report No. 51
For Calendar Quarter Ending June 30, 2015

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.



Kumasi Vines
Acting Bureau Head

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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, 2015, 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, 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 the intersection of Springdale Avenue and Hilton Street. It was proposed to monitor this SSO structure 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.

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.

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 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

Flow meters have been installed and will monitor these locations for 6 months. The collected data in conjunction with the hydraulic model will determine if they can be sealed.

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, 2015, 3 flow meters are 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	1	1	1
8	5	Stony Run Interceptor & P.S.	1	1	1
10	7	Greenmount Interceptor	1	1	1
Total			3	3	3

A summary of rainfall and flow monitoring data collected during March, April and May 2015 (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

- 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, 2015, the flow monitoring continues at 9 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, 2015, 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. The City is currently reviewing the language and will schedule multiple meetings with the Regulators to finalize.

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, 2015, 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.

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, 2015, 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, 2015, 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, 2015, 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, 2015, 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, 2015, 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, 2015, 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, 2015.

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 twice 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 Innovyze.
- 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, 2015, 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**

Paragraph 14: Information Management System Program

- A. During the calendar quarter ending June 30, 2015, 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, 2015. 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.**
- 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, 2015, 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, 2015 is provided in Appendix 5.
- B.** During the calendar quarter ending June 30, 2015, 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 Management Section of the Environmental Services Division 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, 2015, 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, 2015, 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. As of the calendar quarter ending June 30, 2015, 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 estimated construction completion date is February 2015. 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. **This project is currently in the construction phase.**

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. As of the calendar quarter ending June 30, 2015, this contract was advertised on April 30, 2010, and bids were due on September 30, 2010. The construction NTP was issued on February 22, 2011. **This project is currently under one year warranty period.**

Contract Award to the Contractor for the Improvements to the Headworks and Wet Weather Flow Equalization at Back River WWTP Project (SC 918) is anticipated by June 2015.

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

As of the calendar quarter ending June 30, 2015 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 8 CONSTRUCTION PROJECTS
As of June 30, 2015

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 & 789	1. Install approximately 880 linear feet of 30-inch parallel relief sewer from JPIB49 to JPI110 (along JPI90A-JPI94) (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 achieve 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 was received on September 5, 2007. 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 mains/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 11/16/07.
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.

APPENDIX 1
STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS
As of June 30, 2015

PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO 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 JGE branch) (SC818) 2. Rehabilitation of approximately 16,500 linear feet of existing sewer ranging from 12- to 50-inch (SC773) 3. Inverted siphon rehabilitation in Falls Road (manhole JG062) (SC773) 4. Stream bank restoration along Union Avenue near Meadow Mills at Woodberry	July 31, 2003	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 (JGF 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 29th Street and Sisson 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 10,800 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 & 838) 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 acheived 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 further submitted another extension letter dated February 15, 2011 requesting an extension to June 29, 2019 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 (upsze) approximately 4,400 linear feet of existing 12- to 24-inch sewer with new 21- to 36-inch sewer along branch interceptor, excluding proposed 901 N. Howard project area 2. Improvements to siphon/SSO No. 125 under I-83 (JGB18-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 (JGA 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 was submitted. Awaiting response from MDE/EPA. Practical completion acheived on May 27, 2008. Monitoring period began July 25, 2008. In a letter dated 11/08/2011, 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	Moores Run Interceptor - Middle Section Storm Water 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	Moores 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	Moores 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 - Bay View Yard 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*

Note: Shaded date cells indicate completion.

APPENDIX 1
STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS
As of June 30, 2015

PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
GWYNNS 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 DRA Branch Sanitary Contract No. 788, 825	Clean, inspect and rehabilitate of 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. 780 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, 23P, 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 Unetta 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/EPA. ** Approved by MDE. ***Approved by EPA							

APPENDIX 2

STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS

STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS
As of June 30, 2015

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 S19OO_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)	05/20/13 (A)	5/8/14 (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)	2/7/2015 (P)	2/7/2016 (P)	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 in liquidated damages
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)	11/30/2014 (P)	11/30/2015 (P)	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 in liquidated damages
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)	2/2/2015 (P)	2/2/2016 (P)	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 in liquidated damages
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)	3/14/2015 (P)	3/14/2016 (P)	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 894 - Cleaning of Outfall Sewershed 99-Inch and Outfall Interceptor (From N. Bond Street to 6300 Block of E. Lombard Street)	08/05/11 (A)	04/12/2014 (A)	4/12/2015 (A)	This contract was awarded to Metra Industries, who was the lowest bidder, on 6/8/11. NTP was issued on 8/8/11. Cleaning of the outfall stopped 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)	9/5/2015 (P)	9/5/2016 (P)	The contract was advertised on 12/13/13. The lowest bidder is Metra Industries. Award date is 3/12/14 and NTP issued on 4/24/14.
OF-3	SC919 - Sewer Rehab in the Outfall Sewershed	SC 919 - Sewer Rehab in the Outfall Sewershed	7/17/2015 (A)	1/17/2018 (P)	1/17/2019 (P)	The contract was advertised on 7/17/2015. Bid opening is 8/26/2015.

Note: Shaded date cells indicate completion.

STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS
As of June 30, 2015

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. (S09UU_007MH to S13UU_008MH). Work includes excavation and removal of existing 12 inch sewer line, installation of 2400 LF of new 18-inch sewer line and relocation of 720 LF 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. First construction progress meeting was held on 3/20/13.
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)	7/8/2015 (P)	7/8/2016 (P)	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 in liquidated damages
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)	11/5/2015 (P)	11/5/2016 (P)	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.
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)	11/25/2015 (P)	11/25/2016 (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.
HL-5	SC933 - High Level Interceptor Cleaning	SC 933 - cleaning of the High Level Interceptor	7/26/2013 (A)	7/29/2015 (P)	7/29/2016 (P)	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
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)	6/1/2015 (A)	6/1/2015 (P)	The contract was advertised on 10/11/13. Lowest Bidder is Spiniello. 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)	11/14/2015 (P)	11/14/2016 (P)	The contract was advertised on 8/16/13. Lowest Bidder is AM Liner East. Contract was awarded on 2/5/14 and NTP issued on 5/14/14.
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)	1/15/2016 (P)	1/15/2017 (P)	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 Liner East. Contract was awarded on 2/5/14 and NTP issued on 5/1/14.
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)	9/30/2015 (P)	9/30/2016 (P)	The contract was advertised on 10/11/13. Lowest Bidder is Inland Construction. Contract was awarded on 1/29/14 and NTP issued on 4/2/14.
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)	7/17/2017 (P)	7/17/2018 (P)	The contract was advertised on 7/17/2015. Bid opening is 8/19/2015.
Low Level Sewershed						
LL-1	SC922R - Low Level Interceptor Cleaning	SC 922R - cleaning of the Low Level Interceptor	1/31/2014 (P)	9/30/2015 (P)	9/30/2016 (P)	The contract was advertised on August 16, 2013. Lowest Bidder is Video Pipe Services Construction. Due to unbalanced bids, this contract was readvertised on 2/7/14. Lowest Bidder is Video Pipe Services Construction. Award date is 7/23/14. NTP issued on 10/1/2014.
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)	10/8/2015 (P)	10/8/2016 (P)	The contract was advertised on 9/20/13. The lowest bidder is Metra. Contract was awarded on 2/12/14 and NTP issued on 4/17/14.
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)	8/28/2015 (P)	8/28/2016 (P)	The contract was advertised on 9/20/13. The lowest bidder is Insituform. Contract awarded on 1/15/14 and NTP issued on 3/7/14.
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)	12/30/2017 (P)	12/30/2018 (P)	The contract was advertised on 6/26/2015. Bid opening is 7/29/2015.

Note: Shaded date cells indicate completion.

STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS
As of June 30, 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)	4/5/2016 (P)	4/5/2017 (P)	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)	6/30/2016 (P)	6/30/2017 (P)	The contract was advertised on 6/26/2015. Bid opening is 7/29/2015.
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 (P)	9/15/2018 (P)	The contract was advertised on 3/6/15. Bid opening is 4/8/2015. The lowest bidder is Spiniello.
Patapsco Sewershed						
PA-1	SC 903 - Sewer Rehab in the Patapsco Sewershed	SC 903 - Sewer Rehab in the Patapsco Sewershed	7/24/2015 (A)	1/24/2018 (P)	1/24/2019 (P)	The contract was advertised on 7/24/2015. Bid opening is 8/26/2015.

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

Note: Shaded date cells indicate completion.

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	Person/Entity Responsible	Source Type	Date Identified	Dye Result	Current Status	Comments
1. 5904 Berkeley Ave.	172 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
2. 6203 Bltmore 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 Fieldcrest Rd.	154 B 1	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
12. 6908 Fieldcrest Rd.	272 B 3	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
13. 3800 Glengyle Ave.	275 B 13	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
14. 6309 Greenspring Ave.	153. B 5.	Property Owner	Downspout	40347.		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. 2212 Ken Oak Rd.	100 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
18. 2416 Ken Oak Rd.	103 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
19. 5609 Key Ave.	50 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
20. 2504 Larrivale Rd.	154 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
21. 5815 Lochlea Rd.	116 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
22. 4424 Marble Hall Road		Property Manager	Stormwater 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 closed.
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 becomes permanent.
24. 5806 Park Heights Ave.	78 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
25. 5806 Park Heights Ave.	78 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
26. 5806 Park Heights Ave.	78 B 3	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
27. 5806 Park Heights Ave.	78 B 9	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
28. 5806 Park Heights Ave.	78 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
29. 5905 Park Heights Ave.	95 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
30. 6414 Park Heights Ave.	315 A 4	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
31. 6306 Pimlico Rd.	315 A 3	Property Owner	Area Drain	3/22/2005	Positive	Newly Identified	Confirmed Not Illegal
32. 7126 Park Heights Ave.	280 B 16	Property Owner	Downspout Connection	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. 6306 Pimlico Rd.	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 Rusk 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. 1702 South Rd.	324 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
40. 2117 Sulgrave Ave.	320 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
41. 2607 Taney Rd.	183 B 4	Property Owner	Driveway Drain	3/23/2005	Positive	Newly Identified	Confirmed Not Illegal
42. 2615 Taney Rd.	183 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
43. 2700 Taney Rd.	183 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
44. 2808 Taney Rd.	182 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
45. 2808 Taney Rd.	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.

APPENDIX 4

PUMPING STATION WORK ORDERS

Co.	No.	Area	Loc.	Machine	Machine Description	W/O	Plnr	W/O	Sts	W/O	Prty	Code	Number	Short problem Description	Full Problem Description	Craft	W/O	Issue	Wk Sht
																Req. Code	Date	Type	Chn
																By			Cls
11			CLINT	991125	CLINTON ST. FORCE MAIN	25	4	MKA	13.81374					PENG-ATTEND MEETING W/CON 930.		KK	PENG	20121219	W61
Total * PENG * Work Orders:														COUNT 1					
Area * * Work Orders:														COUNT 1					
PUMPING ST BRKLYN														17					
				951000	FACILITY, BROOKLYN PUMPING	25	3	14.80991						BLDS/ REPAIR ROOF LEAK (E stielperc 64972		CS	BLDG	20131021	W18
				951000	FACILITY, BROOKLYN PUMPING	25	3D	12.80842						BLDS-MAKE REPAIRS TO WOO in back of sta. Sullivan 6-4972		US		20110913	W08
				951000	FACILITY, BROOKLYN PUMPING	25	4	13.82703						BLDS/ REPAIR LEAK ON ROOF room} stielperc 64972		CS		20130611	W58
				951000	FACILITY, BROOKLYN PUMPING	25	4	15.80820						BLDS-BUILD STEPS FOR HYD TANK TO MAKE WORKING ON UNIT EASIER. REQ. BY W.HOOKS 69701		WH		20141005	W68
				951000	FACILITY, BROOKLYN PUMPING	25	4	15.82349						BLDS/ REPAIR ROOF LEAKS - see Chris stielperc } 64972		CS		20150520	W15
				957701	FOUNTAIN, DRINKING WATER	25	4	15.82554						1 BLDS/HA-REPAIR OR REPLACE cooler		WJ		20150625	W15
				941000	FACILITY, DUNDALK PUMPING	25	3D	15.81059						BLDS/ REPAIR/REPLACE DOO STIELPERC 64972		CS		20150105	W15
				941000	FACILITY, DUNDALK PUMPING	25	3D	15.81875						BLDG.-CONSTRUCT SCAFFOLDI at Dundalk pumping station. See Keith Raynor 6-9748		JCN		20150318	W58
				941000	FACILITY, DUNDALK PUMPING	25	4	14.81687						BLDS/ REPAIR WORKIN LOCK on back door stielperc 64972		CS		20140114	W08
				941000	FACILITY, DUNDALK PUMPING	25	4	14.81940						BLDG-ROOF LEAKING ONTO EL EQUIPMENT.		JAD		20140220	W58
				941000	FACILITY, DUNDALK PUMPING	25	4	14.82463						BLDS/ REPAIR FLUSH VALVE toilet {leaking} stielperc 64972		CS		20140512	W71
				941000	FACILITY, DUNDALK PUMPING	25	4	15.81061						BLDG-SCRAPE AND PAINT STA PUMP ROOM.		CC		20150105	W26
				941000	FACILITY, DUNDALK PUMPING	25	4	15.81062						M,BKCKHD TEST				20150105	
				941000	FACILITY, DUNDALK PUMPING	25	4	15.81652						BLDS-PAINT STATION FRONT scape and paint W. Johnson 6-5194		WJ		20150302	W26
				941000	FACILITY, DUNDALK PUMPING	25	4	15.81871						BLDS- INSPECT ROOF (LEAKIN W. JOHNSON 6-4972		WJ		20150311	W18
				947803	FOUNTAIN, WATER	25	4	15.82556						1 BLDS/HA-REPAIR OR REPLACE cooler		WJ		20150625	W15
				911000	FACILITY, EASTERN AVENUE	25	2	15.81860						BLDG-SNAKE DRAIN AT PUMP REQ BY C.STIELPER 6-4972		CS		20150306	W35
				911000	FACILITY, EASTERN AVENUE	25	3D	13.80593						BLDS/REPAIR FLAT IN TOIL stielperc 64972		CS		20120911	W71
				911000	FACILITY, EASTERN AVENUE	25	3D	13.82258						BLDS-PLACE BATHROOM DO in computer room. Sullivan 6-4972		US		20130501	W08
				911000	FACILITY, EASTERN AVENUE	25	3D	13.82260						BLDS-CAULK WINDOWS IN CO Sullivan 6-4972		US		20130501	W08
				911000	FACILITY, EASTERN AVENUE	25	3D	15.80621						BLDG-PIPE-TOLIET LEAKING REG BY R BARTON JR		RBJ		20140924	W18
				911000	FACILITY, EASTERN AVENUE	25	3D	15.81017						BLDS/ REPAIR SCREEN ROOM STIELPERC 64972		CS		20141110	W08
				911000	FACILITY, EASTERN AVENUE	25	3D	15.81022						BLDS/ REPLACE MOLDED CEIL ALL OFFICES STIELPERC 64972		CS		20141114	W15
				911000	FACILITY, EASTERN AVENUE	25	3D	15.81033						BLDS/ REPLACE DOOR CLOSUR stielperc 64972		CS		20141125	W08
				911000	FACILITY, EASTERN AVENUE	25	3D	15.81631						BLDS/SCRAPE PAINT SCREEN {stielperc 64972		CS		20150209	W26
				911000	FACILITY, EASTERN AVENUE	25	4	12.82124						BLDS/PAINT SPALL BACK M stielperc 64972		CS		20120124	W26
				911000	FACILITY, EASTERN AVENUE	25	4	13.81900						BLDG-CARP-REPAIR ON REFLA REQ BY R BARTON		RBJ		20130318	W15
				911000	FACILITY, EASTERN AVENUE	25	4	13.82237						BLDS / PAINT BACK ROOM FL stielperc 64972		CS		20130415	W26
				911000	FACILITY, EASTERN AVENUE	25	4	14.81677						BLDG-ROOF LEAKING,SECONDA REQ BY C.STIELPER		CS		20140106	W58
				911000	FACILITY, EASTERN AVENUE	25	4	14.82488						BLDS/ REPAIR SCREEN ROOM see Chris 64972		CS		20140530	W15
				911000	FACILITY, EASTERN AVENUE	25	4	15.80004						BLDS/ UNLOG DRAIN LINE { stielperc 64972		CS		20140707	W35
				911000	FACILITY, EASTERN AVENUE	25	4	15.80020						BLDS/ -PAINT OFFICE WALLS stielperc 64972		CS		20140723	W26
				911000	FACILITY, EASTERN AVENUE	25	4	15.80820						BLDS/ REPAIR DOOR SCREEN stielperc 64972		CS		20141009	W58
				911203	MOTOR, SEWAGE PUMP #3	25	4	15.81867						BLDS-PAINT PUMP,MOTOR AND WJ		WJ		20150310	W26
				911204	MOTOR, SEWAGE PUMP #4	25	4	15.81868						BLDS-PAINT PUMP,MOTOR AND WJ		WJ		20150310	W26
				911205	MOTOR, SEWAGE PUMP #5	25	4	15.81869						BLDS-PAINT PUMP,MOTOR AND WJ		WJ		20150310	W26
				911818	FOUNTAIN, WATER	25	4	15.82553						1 BLDS/HA-REPAIR OR REPLACE cooler		WJ		20150625	W15
				920012	METER, OVERBOARD (LEVEL	25	3D	14.82473						BLDG-CARP- MAKE BOX/COVER REQ BY R BARTON JR		RBJ		20140516	W08
				921000	FACILITY, JONES FALLS	25	3D	14.82481						BLDS/REPAIR HINGE ON OFTI stielperc 64972		CS		20140522	W15
				920091	PLC/LOCAL CONTROL STATION	25	3D	15.82347						BLDG-INSTALL PLYWOOD TO M REQ BY C.STIELPER		CS		20150519	W58
				921000	FACILITY, JONES FALLS	25	4	13.81912						BLDS/REPAIR FRONT DOOR {c stielperc 64962		CS		20130327	W08
				921000	FACILITY, JONES FALLS	25	4	14.80650						BLDG/ REPAIR ROOF LEAK { vent pipe } stielperc 64972		CS		20131021	W18

Co.	Mo.	Area	Loc.	Machine	Machine Description	W/O	Sts	Plnr	Short problem Description	Full Problem Description	Req. Code	Craft W/O	Issue Date	Wk Snt
											By			
11	PUMPING ST JF	JF	921000	FACILITY, JONES FALLS	BLDG/ REPAIR OFFICE WINDO stielperc 64972	25	4	14.82432			CS	BLDG	20140423	W15
		JF	926702	FOUNTAIN, WATER COOLER	BLDG/HIA-REPAIR OR REPLACE water cooler	25	4	15.82852	1		WJ		20150626	W15
		LOCPO	985000	FACILITY, LOCUST POINT	BLDG-CINDER BLOCKS APART door frame. Sullivan 6-4972	25	3D	12.80836			US		20110913	W08
		LOCPO	985000	FACILITY, LOCUST POINT	BLDG/REPLACE TOILET (CRAC stielperc 64972	25	4	14.82487			CS		20140530	W15
		QUAD	931000	FACILITY, QUAD AVENUE	MCHPS/BLDG, REPLACE DRAIN in cieling 2nd flr(rusted , leaking badly) stielperc 64972	25	3D	15.82854	1		CS		20150629	W15
		QUAD	935806	FOUNTAIN, WATER	BLDG/HIA-REPAIR OR REPLACE cooler	25	4	15.82857	1		WJ		20150626	W15
		WSTPT	971000	FACILITY, WESTPORT	BLDG-RAIN SPOUTS NEED REP stielperc c 64972	25	4	13.80582			CS		20120828	W08
		WSTPT	971000	FACILITY, WESTPORT	BLDG/HIA-REPAIR OR REPLACE cooler	25	4	15.82855	1		WJ		20150626	W15
Total * BLDG * Work Orders:														
COUNT 50														
BRKLYN	956101	GENERATOR, EMERGENCY SET	25	2	15.81887				ELCPS-REPORT TO RESET GEN W. Johnson 6-4972		WJ	ELCPS	20150401	W22
BRKLYN	953101	SCHEMATIC, MECHANICAL BAR	25	3	13.80657				ELCPS. - MR SCHEMATIC UNIT REQUESTER: K. KUBSKI 6-4972.		KK		20120820	W21
BRKLYN	952202	ACTUATOR, #2 PUMP DISCHARG	25	3D	12.80163				ELCPS-PROGRAM UNIT Sullivan 6-4972		US		20110718	W23
BRKLYN	952202	ACTUATOR, #2 PUMP DISCHARG	25	3D	12.80180				ELCPS/MAKE REPAIRS TOWALV stielperc 64972		CS		20110725	W21
BRKLYN	956303	SWITCH, TRANSFER DRG. GEN	25	3D	12.80520				ELCPS-MAKE NECESSARY REPAIR NOT SHUTDOWN. SULLIVAN 6-4972		US		20110805	W15
BRKLYN	953201	MOTOR, BAR SCREEN	25	3D	12.81843				ELCPS-REPAIR, SAID HOA SHIT Sullivan 6-4972		US		20111222	W21
BRKLYN	952103	VALVE, #3 PUMP DISCHARGE(M)	25	3D	13.81853				ELCPS/MCHPS-INSPECT VLV F not opening stielperc 64972		CS		20130219	W15
BRKLYN	955301	FAN, #1 EXHAUSTION ROOF FV	25	4	12.80106				ELCPS/ REPAIR FAN MOTOR-N stielperc 64972		CS		20110720	W21
BRKLYN	952102	VALVE, #2 PUMP DISCHARGE(M)	25	4	12.80172				ELCPS/RESET VALVE CONTROL stielperc 64972		CS		20110721	W22
BRKLYN	950003	PANEL, #2 PLC/LOCAL CONTROL	25	4	12.81192			TRD	ELCPS INVESTIGATE WHY VLV opens drive fails to start stielperc		CS		20111003	W51
BRKLYN	952101	VALVE, #1 PUMP DISCHARGE(M)	25	4	12.81216				ELCPS-CHECK OPERATION OF REQ. BY J. MAROCK 6-9748		JCN		20111018	W38
BRKLYN	951202	MOTOR, SEWAGE PUMP #2	25	4	12.82290				ELCPS/REPAIR DRIVE TRIPPI Inhibit-stielperc 64972		CS		20120221	W15
BRKLYN	951203	MOTOR, SEWAGE PUMP #3	25	4	12.82241				ELCPS/RESET DISCONNECT SWI stielperc 64972		CS		20120327	W22
BRKLYN	950003	PANEL, PLC/LOCAL CONTROL	25	4	12.83007				ELCPS/ INSPECT I/O CARD F operation cstielper 64972		CS		20120409	W15
BRKLYN	950003	PANEL, PLC/LOCAL CONTROL	25	4	12.83330				ELCPS/ CHECK PLC FOR POWER stielperc 64972		CS		20120515	W21
BRKLYN	956311	UPS, SYSTEM	25	4	12.83353				ELCPS/ASSTT INSPS UPS IN stielperc 64972		CS		20120531	W22
BRKLYN	951103	PUMP, SEWAGE #3	25	4	13.81855				MCHPS/ MAKE'S NEEDED FOR stielperc 64972		CS		20130220	W15
BRKLYN	951101	PUMP, SEWAGE #1	25	4	13.82253				ELCPS/ ASSIST MCPS WITH P (not pumping) 564972		CS		20130425	W46
BRKLYN	957101	PUMP, #1 SUBVERSIBLE SUMP	25	4	14.82425				ELCPS/ REPAIR PUMP (NOT W stielperc 64972		CS		20140415	W15
CAROL	985302	PUMP, STORM DRAIN #2	25	4	15.80625				MCHPS-INSTALL NEW PUMP PER BY C. STIELPER		CS		20140724	W22
CLINT	991121	FACILITY, CLINTON STA. #1	25	3D	15.80605				ELCPS/MCHPS/STORM-NO POWER REQ BY J. MAROCK 6-9748		JCN		20140915	W30
COLGAT	949202	MOTOR, STORM DRAIN PUMP	25	4	12.80554				ELEC/ELCPS-REPLACE BEARING requester r slayton 6-9752		RLS		20110824	W15
COLGAT	949202	MOTOR, STORM DRAIN PUMP	25	4	14.80522				ELCPS/ INVESTIGATE POWER L stielperc 64972		CS		20130808	W21
COLGAT	949201	MOTOR, STORM DRAIN PUMP	25	4	14.80528				ELCPS/ ASSIST CONTRACTOR removal--stielperc 64972		CS		20130812	W09
COLGAT	949505	LIGHTS, EMERGENCY	25	4	14.82891				ELCPS- REPAIR LIGHT REQ. 6-9748		JCN		20140610	W20
DUNDAL	943301	MOTOR, BAR SCREEN #1	25	3D	13.80716				ELCPS/REPAIR UNIT TRIPS alarm 64972		CS		20121119	W41
DUNDAL	941101	PUMP, SEWAGE #1	25	3D	14.80559				MCHPS/ELCPS-REPLACE COUPL stielperc 64972		CS		20130904	W15
DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	3D	15.80002				ELCPS/ INSTALL WIRING FOR pumps(per contract) stielperc 64972		CS		20140707	W22
DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	3D	15.80297				ELCPS/MCHPS -MAKE NEEDED any equipment that was damaged in outage stielperc 64972		CS		20140815	W15
DUNDAL	947501	FAN, PRV-1 EXHAUST (ROOF)	25	3D	15.80594				ELCPS/REPAIR SUPPLY FAN F (not working locked out) stielperc 64972		CS		20140909	W15
DUNDAL	943407	MOTOR, ROLLING GARAGE DOOR	25	3D	15.81639				ELCPS/ REPAIR DOOR (NOT stielperc 64972		CS		20150218	W21
DUNDAL	948103	CONTROL, VFD #2 SEWAGE PUM	25	3D	15.82828				ELCPS/ MAKE'S NEEDED REPAIR ROUND fault--stielperc 64972		CS		20150805	W41
DUNDAL	943102	SCREEN, #2 BAR	25	4	12.82379				ELCPS-ASSIST MECH. AND MC WORKS 69701		WH		20120215	W22
DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4	13.81868				ELCPS-REPLACE SWITCH FOR bar screen room		JCN		20130304	W15
DUNDAL	947409	HEATER, UNIT (GENERATOR RH)	25	4	13.81875				ELCPS/ REPLACE UNIT HEATE stielperc 64972		CS		20130307	W22
DUNDAL	948104	CONTROL, VFD #3 SEWAGE PUM	25	4	13.82245				ELCPS-REPAIR DRIVE REQ. BY J. MAROCK 6-9748		JCN		20130417	W21
DUNDAL	947505	FAN, PRV-5 EXHAUST (ROOF)	25	4	13.82465				ELCPS/REPAIR FAN (NOISE stielperc 64972		CS		20130516	W15
DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4	14.80008				MCHPS/ MAKE'S NEEDED OFFICE / SC areas stielperc 64972		CS		20131021	W15

Co.	No.	Area	Loc.	Machine	Machine Description	W/O	Sts	Plnr	W/O	Short problem Description	Full Problem Description	Craft Req. Code	W/O Issue Date	Wk Snt Typ dwn
	11	PUMPING ST	DUNDAL	944601	PUMP, VACUUM #1	25	4	14.81226	25	4	ELCPS/ASSIST MECH. WITH RE stielperc 64972	CS	ELCPS 20131126	W15
			DUNDAL	944603	PUMP, VACUUM #3	25	4	14.81246	1	1	MCNPS/ELCPS-REPAIR PUMP T stielperc 64972	CS	20131210	W21
			DUNDAL	943101	SCREEN, #1 BAR	25	4	14.82460	1	1	MCNPS/ELCPS/ MAKE REPAIRS { stop mid travel }-stielperc 649782	CS	20140509	W15
			DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4	15.81628			ELCPS-REPAIR PUMP ROOM AN form 64972	CS	20150205	W20
			DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4	15.81649			ELCPS CLEAN AND TEST BREAK from created from leaking roof	DTS	20150227	W24
			DUNDAL	948624	PANEL, SEAL WATER SYS. PRES	25	4	15.82336			ELCPS/ REPAIR OR REPLACE to seal water system that wasdamaged due to pump room flood	CS	20150512	W15
			DUNDAL	940018	MONITOR, GAS	25	4	15.82338			ELCPS-INSTALL EXPLOSION P REQ BY RBJ FOR ELLA009 MJJMP	RBJ	20150512	W22
			DUNDAL	946301	PUMP, SUPP #1	25	4	15.82631	1	1	MCNPS/ELCPS REPAIR #1SUPP W. Johnson 6-497	WJ	20150608	W15
			DUNDAL	946302	PUMP, SUPP #2	25	4	15.82632	1	1	MCNPS/ELCPS REPAIR #2SUPP W. Johnson 6-4972	WJ	20150608	
			DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4	15.82650			ELCPS-REPLACE BULBS ON PU W. Johnson 6-4972	WJ	20150624	W20
			DUNDAL	946306	LIGHT, EMERGENCY (PUMP RM)	25	4	15.82658			ELCPS-REPAIR LIGHT FIXTUR REQ. BY J. NAROCK 6-9748	JCN	20150629	W20
			EASTER	911000	FACILITY, EASTERN AVENUE	25	3D	12.82401			ELCPS-REPAIR OR REPLACE P Sullivan 6-4972	US	20120228	W44
			EASTER	913202	MOTOR, BAR SCREEN (SOUTH)	25	3D	12.83605			ELCPS-TRIPPING OUT REQ BY U.SULLIVAN	US	20120628	W21
			EASTER	917101	PUMP, SUPP #1	25	3D	13.81866	1	1	MCNPS/ELCPS-REPAIR OR REP Sullivan 6-4972	US	20130301	W21
			EASTER	912102	VALVE, CONE #2 PUMP	25	3D	13.82459			ELCPS-MOTOR KEEPS RUNNING REQ BY J. NAROCK	JCN	20130514	W21
			EASTER	915510	FAN, EXHAUST	25	3D	14.80012	1	1	HA/ELCPS/REPAIR UNIT KEEP stielperc 64972	CS	20130717	W21
			EASTER	913201	MOTOR, BAR SCREEN (NORTH)	25	3D	15.81636			ELCPS/REPAIR UNIT KEEPS T on {trq ret} stielperc 64972	CS	20150210	W21
			EASTER	916901	VALVE, GV-1 GATE (VAULT #1)	25	4	12.83325			ELCPS/REPAIR ELECTRIC WFE stielperc 64972	CS	20120508	W15
			EASTER	913101	SCREEN, BAR (NORTH)	25	4	13.80024			ELCPS-ASSIST MECH. WITH R HOOKS 69701	WH	20120719	W15
			EASTER	910021	DOOR, AUTO #1 GENERATOR (S)	25	4	13.80546	1	1	ELCPS/CHECK FAN FOR PROPE running slow see stielperc 64972	CS	20120802	W38
			EASTER	911000	FACILITY, EASTERN AVENUE	25	4	13.81601			ELCPS/INVESTIGATE FIRE SU system pressure alarm {fire marshall} stielperc 64972	CS	20130117	W02
			EASTER	181501	STARTER, UNIT #2, MOTOR -	25	4	13.81618			ELCPS-REPLACE VACUUM CONT requester r Slayton 6-9748	RLS	20130201	W15
			EASTER	911000	FACILITY, EASTERN AVENUE	25	4	13.81848			ELCPS-REPAIR LIGHT FIXTUR stielperc 64972	CS	20130211	W20
			EASTER	911000	FACILITY, EASTERN AVENUE	25	4	13.81899			ELCPS/REPLACE LIGHT SWITC in shed #1 stielperc 64972	CS	20130321	W20
			EASTER	911000	FACILITY, EASTERN AVENUE	25	4	13.82236			ELCPS/ NEED BUCKET TRUCK sign stielperc 64972	CS	20130415	W22
			EASTER	913202	MOTOR, BAR SCREEN (SOUTH)	25	4	13.82467			ELCPS-ASSIST MECH. REQ. BY	WH	20130521	W21
			EASTER	916054	FAN, SUPPLY	25	4	14.80021			ELCPS-REPLACE MOTOR TRIPS REQ BY C.STIELPER	CS	20130724	W15
			EASTER	911102	PUMP, SEWAGE #2	25	4	14.81254	1	1	MCNPS/ELCPS-UN -COUPLE PU for test stielperc c 64972	CS	20131219	W15
			EASTER	915416	HEATER, UNIT #4	25	4	14.81703			ELCPS-REPAIR HEATING UNIT {not working } stielperc 64972	CS	20140128	W21
			EASTER	916601	MOTOR CONTROL CENTER (MCC)	25	4	15.80851			ELCPS-REPAIR MCC BREAKERS REQ. BY J. NAROCK 6-9748	JCN	20141031	W21
			EASTER	916601	MOTOR CONTROL CENTER (MCC)	25	4	15.81642			ELCPS-REPAIR BROKEN KEY A REQ. BY J. NAROCK 6-9748	JCN	20150223	W15
			EASTER	916908	VALVE, GV-8 GATE (VAULT "C")	25	4	15.81644			ELCPS/INVESTIGATE CAUSE 0 out {keeps tripping out } stielperc 64972	CS	20150223	W21
			HILLAND	964402	PANEL, MAIN CIRCUIT	25	3D	12.81522			ELCPS/CHECKPANEL FOR POW stielperc 64972	CS	20111206	W15
			HILLAND	961000	FACILITY, HIGHLANDTOWN	25	3D	13.82235			ELCPS-RELAMP STATION Sullivan 6-4972	US	20130415	W20
			HILLAND	964101	GENERATOR, EMERGENCY SET	25	4	12.82125			ELCPS/REPLACE GEN BATTERY stielperc 64972	CS	20120124	W15
			HILLAND	965101	PUMP, SUPP	25	4	13.81851	1	1	MCNPS/ELCPS/REPAIR PUMP N stielperc 64972	CS	20130213	W15
			JF	921101	PUMP, SEWAGE #1	25	3D	13.80017			ELCPS-PUMP SHOWING FAULT, Sullivan 6-4972	US	20120718	W41
			JF	921102	PUMP, SEWAGE #2	25	3D	13.80018			ELCPS-PUMP SHOWING FAULT, (craft already notified) Sullivan 6-4972	US	20120718	W41
			JF	921202	MOTOR, SEWAGE PUMP #2	25	3D	13.81770			ELCPS-DETERMINE CAUSE OF alarm and make repairs. Sullivan 6-4972	US	20130205	W41
			JF	921203	MOTOR, SEWAGE PUMP #3	25	3D	15.81056			ELCPS/CHECK MOTOR FOR PHA STIELPERC 64972 {PER TEAM SERV}	CS	20150105	W15
			JF	926301	GENERATOR, EMERGENCY SET	25	3D	15.81455			ELCPS/ INVESTIGATE REASON to run on tuesday exersize stielperc 64972	CS	20150107	W51
			JF	921000	FACILITY, JONES FALLS	25	4	11.81290	1	1	PENG/ INVESTIGATE RE-LOCA horn into pump room stielperc 64972	CS	20101015	W51
			JF	192036	INCOTER, #1 MAIN 2.4KV (ELE	25	4	14.80542			ELCPS-TRI M REPAIRS TO BR requester R slayton 6-9748	RLS	20130822	W15
			JF	921202	MOTOR, SEWAGE PUMP #2	25	4	14.80984			ELCPS-PURCHASE CONTACTOR pump	RLS	20131016	W28
			JF	921000	FACILITY, JONES FALLS	25	4	14.81218			ELCPS/REPAIR LIGHT IN STA stielperc 64972	CS	20131115	W20
			JF	924201	MOTOR, #1 BAR SCREEN	25	4	14.82442			ELC-NO POWER TO SCREEN req 69748 dtsmith		20140501	W21
			JF	928002	VFD, #1 SEWAGE PUMP (CPX900	25	4	15.80837			ELCPS-KON-T START REQ. BY J. NAROCK 6-9748	JCN	20141020	W15
			JF	926301	GENERATOR, EMERGENCY SET	25	4	15.82022	1	1	MCNPS/ELCPS-REPLACE WATER T. REQ. BY W. HOOKS.	WH	20150423	W15
			JF	921000	FACILITY, JONES FALLS	25	4	15.82035			ELCPS-REPLACE LIGHT IN GE W. Johnson 6-4972	WJ	20150430	W20
			JF	926301	GENERATOR, EMERGENCY SET	25	4	15.82623			ELCPS-RESET FAULT ON GENE W. Johnson 6-4972	WJ	20150603	W41

[illegible]

APPENDIX 5

SUMMARY OF REPORTED OVERFLOWS

City of Baltimore
Activity at Sanitary Sewer Overflow Structures
For Calendar Quarter Ending June 30, 2015

SSO No. 67

<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
3/4/2015	Flow Meter in Place	0.75
3/5/2015	Flow Meter in Place	0.11
3/10/2015	Flow Meter in Place	0.46
3/14/2015	Flow Meter in Place	0.83
4/20/2015	Flow Meter in Place	1.49
5/18/2015	Flow Meter in Place	1.96
5/19/2015	Flow Meter in Place	0.16

SSO No. 72

<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
3/4/2015	Flow Meter in Place	0.75
3/5/2015	Flow Meter in Place	0.11
3/10/2015	Flow Meter in Place	0.46
3/11/2015	Flow Meter in Place	0.00

City of Baltimore
Activity at Sanitary Sewer Overflow Structures
For Calendar Quarter Ending June 30, 2015

3/14/2015	Flow Meter in Place	0.83
3/27/2015	Flow Meter in Place	0.69
4/20/2015	Flow Meter in Place	1.49
5/18/2015	Flow Meter in Place	1.96
5/19/2015	Flow Meter in Place	0.16

SSO No. 132

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

SSO No. 134

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

SSO No. 135

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



City of Baltimore
Activity at Sanitary Sewer Overflow Structures
For Calendar Quarter Ending June 30, 2015

SSO No. 137

<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
3/14/2015	Flow Meter in Place	0.86
4/20/2015	Flow Meter in Place	1.31
5/18/2015	Flow Meter in Place	2.05

SSO No. 138

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

SSO No. 139

<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
4/20/2015	Flow Meter in Place	1.53
None Reported this Quarter		

City of Baltimore
Activity at Sanitary Sewer Overflow Structures
For Calendar Quarter Ending June 30, 2015

Pumping Station Overflows

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

Wastewater Treatment Plant Overflows

<u>WWTP</u>	<u>Date</u>	<u>Volume Loss (gal)</u>	<u>Rainfall (in)</u>
Patapsco	6/27/2015	Not known	Not available
	3/25/2015	1 to 2 CY	0.00
Back River	4/1/2015	3,500	0.00
	6/25/2015	5,000	Not available

City of Baltimore
Un-Permitted Sanitary Sewer Overflows
For Calendar Quarter Ending June 30, 2015

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
4/1/2015	10	Roots	0.00	Inner Harbor	1715 Lancaster St	21231
4/1/2015	2,155	Rags, Trash, Sand, Gravel, Rocks, Pipe Break	0.00	N/A	1212 Seminole Ave	21229
4/1/2015	1,500	Grease	0.00	Jones Falls	3300 Clipper Mill Rd	21211
4/1/2015	Evidence of Overflow	Rags	0.00	N/A	1904 W Baltimore St	21223
4/2/2015	Evidence of Overflow	Rags	0.00	N/A	223 Woodlawn Rd	21210
4/3/2015	8,470	Unknown	0.07	N/A	2716 Sethlow Rd	21225
4/3/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.07	N/A	429 Westgate Rd	21229
4/3/2015	Evidence of Overflow	Rags	0.07	N/A	1804 Bolton St	21217
4/3/2015	Evidence of Overflow	Rags	0.07	N/A	1013 Darley Ave	21218
4/6/2015	Evidence of Overflow	Grease	0.14	N/A	3200 Carlisle Ave	21216
4/6/2015	Evidence of Overflow	Rags	0.14	N/A	1126 Shields Pl	21201
4/6/2015	Evidence of Overflow	Rags	0.14	N/A	2501 Maryland Ave	21218
4/7/2015	Evidence of Overflow	Rags	0.06	N/A	4221 Belvieu Ave	21215
4/8/2015	Evidence of Overflow	Rags	0.35	N/A	4215 Belmar Ave	21206
4/8/2015	34,940	Pipe Break	0.35	Armistead Creek	Orville Ave and E Federal St	21205
4/8/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.35	N/A	2446 E 32nd St	21213
4/9/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.19	N/A	2806 Roselawn Ave	21214
4/9/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.19	N/A	1008 Billie Holiday Ct	21205
4/11/2015	Evidence of Overflow	Grease	0.00	N/A	200 Ballou Ct	21231
4/13/2015	Evidence of Overflow	Roots	0.02	N/A	2027 Dukeland St	21216
4/13/2015	Evidence of Overflow	Rags	0.02	N/A	2605 Dulany St	21223
4/13/2015	Evidence of Overflow	Other	0.02	N/A	208 Stratford Rd	21218
4/14/2015	Evidence of Overflow	Roots, Trash, Sand, Gravel, Rocks	0.17	N/A	429 Westgate Rd	21229
4/14/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.17	N/A	3130 Guilford Ave	21218
4/15/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.02	N/A	6216 Pinehurst Rd	21212
4/15/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.02	N/A	4105 Raspe Ave	21206
4/15/2015	Evidence of Overflow	Other	0.02	N/A	3300 Clipper Mill Rd	21211



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Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
4/15/2015	Evidence of Overflow	Rags	0.02	N/A	1822 Penrose Ave	21223
4/16/2015	Evidence of Overflow	Rags	0.00	N/A	2467 Harriet Ave	21230
4/16/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	4000 Groveland Ave	21215
4/17/2015	Evidence of Overflow	Rags, Grease	0.24	N/A	6803 Harford Rd	21234
4/17/2015	Evidence of Overflow	Rags, Roots	0.24	N/A	4107 The Alameda	21218
4/18/2015	2,163	Rags, Grease	0.00	N/A	Braddish Ave & Edmondson Ave	21216
4/18/2015	Evidence of Overflow	Pipe Break	0.00	N/A	3204 Juneau Pl	21214
4/19/2015	Evidence of Overflow	Roots	0.06	N/A	1800 Ruxton Ave	21216
4/19/2015	Evidence of Overflow	Roots	0.06	N/A	2819 Goodwood Rd	21214
4/20/2015	Evidence of Overflow	Grease	1.37	N/A	4403 Frederick Ave	21229
4/20/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	1.37	N/A	1801 E Eager St	21205
4/20/2015	10,000	Rain, Infiltration/Inflow	1.37	Jones Falls	1500 N Charles St	21202
4/21/2015	Evidence of Overflow	Rags	0.08	N/A	2904 Glenmore Ave	21214
4/21/2015	Evidence of Overflow	Rags	0.08	N/A	5511 Elderon Ave	21215
4/22/2015	Evidence of Overflow	Rags, Grease	0.02	N/A	1939 Falls Rd	21217
4/22/2015	Evidence of Overflow	Roots	0.02	N/A	5235 Linden Heights Ave	21215
4/22/2015	Evidence of Overflow	Rags, Grease	0.02	N/A	2501 Maryland Ave	21218
4/22/2015	1,090	Rags, Roots Grease	0.02	N/A	4811 Mount Hope Dr	21215
4/23/2015	2,040	Rags, Grease	0.00	N/A	Maude Ave & Chesapeake Ave	21225
4/24/2015	Evidence of Overflow	Roots	0.03	N/A	2228 N Charles St	21218
4/26/2015	Evidence of Overflow	Rags	1.00	N/A	3555 Greenmount Ave	21218
4/27/2015	Evidence of Overflow	Sand, Gravel, Rocks	0.00	N/A	1135 N Carrollton Ave	21217
4/28/2015	Evidence of Overflow	Roots	0.00	N/A	2806 Roselawn Ave	21214
4/28/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	3616 Fairview Ave	21216
4/29/2015	3,185	Rags, Grease	0.00	Curtis Bay	6200 Beckley Ave	21224
4/29/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.00	N/A	3204 Juneau Pl	21214
4/29/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	2102 Homewood Ave	21218
4/29/2015	Evidence of Overflow	Rags	0.00	N/A	3607 Brooklyn Ave	21225



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Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
4/30/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.00	N/A	3509 North Ave	21213
4/30/2015	Evidence of Overflow	Rags	0.10	N/A	709 Linnard St	21229
4/30/2015	Evidence of Overflow	Rags	0.10	N/A	2501 Maryland Ave	21218
5/1/2015	7,575	Pipe Break	0.02	Jones Falls	Guilford Ave and 26th St	21218
5/3/2015	Evidence of Overflow	Roots	0.00	N/A	2711 Ruscombe Ave	21215
5/3/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	4122 Westview Rd	21218
5/5/2015	9,900	Trash, Sand, Gravel, Rocks	0.02	Jones Falls	203 Chancery Rd	21218
5/5/2015	Evidence of Overflow	Rags, Roots	0.02	N/A	823 N Central Ave	21205
5/6/2015	1,260	Rags, Roots, Grease	0.00	N/A	Deepdene Rd & Edgevale Rd	21210
5/6/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.00	N/A	1249 N Broadway	21213
5/7/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.02	N/A	2106 Harford Rd	21218
5/7/2015	3,325	Rags, Trash, Sand, Gravel, Rocks, Pipe Break	0.02	Gwynns Falls	2760 Wilkins Ave	21223
5/8/2015	Evidence of Overflow	Rags	0.00	N/A	1730 W North Ave	21217
5/8/2015	Evidence of Overflow	Rags	0.00	N/A	1631 Gwynns Falls Pkwy	21217
5/8/2015	Evidence of Overflow	Rags	0.00	N/A	3204 Juneau Pl	21214
5/9/2015	Evidence of Overflow	Rags	0.00	N/A	912 W Franklin St	21201
5/9/2015	Evidence of Overflow	Rags	0.00	N/A	3607 Brooklyn Ave	21225
5/10/2015	Evidence of Overflow	Roots	0.01	N/A	306 E 33rd St	21218
5/10/2015	Evidence of Overflow	Rags	0.01	N/A	Edmondson Ave and Evergreen St	21223
5/10/2015	570	Rags	0.01	N/A	2815 Carver Rd	21225
5/11/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.02	N/A	6101 Oak Leaf Ave	21215
5/11/2015	Evidence of Overflow	Grease, Trash, Sand, Gravel, Rocks	0.02	N/A	600 Stony Spring Dr	21210
5/12/2015	Evidence of Overflow	Grease	0.00	N/A	420 E 25th St	21218
5/12/2015	Evidence of Overflow	Rags, Grease	0.00	N/A	721 E Preston St	21202
5/14/2015	Evidence of Overflow	Rags, Grease	0.00	N/A	5308 Lantern Ct	21229
5/14/2015	540	Roots, Grease, Trash, Sand, Gravel, Rocks	0.00	Herring Run	5619 Frankford Ave	21206
5/15/2015	Evidence of Overflow	Other	0.00	N/A	3506 Spaulding Ave	21215
5/15/2015	Evidence of Overflow	Rags, Grease	0.00	N/A	1631 Gwynns Falls Parkway	21217



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Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
5/16/2015	Evidence of Overflow	Rags	0.61	N/A	16 S Tremont Rd	21229
5/17/2015	Evidence of Overflow	Rags, Roots, Trash, Sand, Gravel, Rocks	0.09	N/A	2813 Cheswolde Rd	21209
5/17/2015	208	Rags, Roots	0.09	Jones Falls	2800 Rosalind Ave	21215
5/18/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	1.58	N/A	1800 Appleton St	21217
5/19/2015	Evidence of Overflow	Rain, Infiltration/Inflow	0.64	N/A	1511 N Charles St	21202
5/19/2015	1,040	Rain, Trash, Sand, Gravel, Rocks	0.64	Biddison Run	3103 E Northern Parkway	21214
5/19/2015	Evidence of Overflow	Other	0.64	N/A	3300 Clipper Mill Rd	21211
5/19/2015	3,882	Roots, Rain	0.64	N/A	5619 Frankford Ave	21206
5/20/2015	1,730	Trash, Sand, Gravel, Rocks, Pipe Break	0.00	Gwynns Falls	2760 Wilkens Ave	21223
5/20/2015	Evidence of Overflow	Rags	0.00	N/A	909 N Charles St	21202
5/20/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	2316 Erdman Ave	21213
5/20/2015	1,600	Other	0.00	Jones Falls	3300 Clipper Mill Rd	21211
5/21/2015	1,205	Trash, Sand, Gravel, Rocks	0.15	N/A	5423 O'Donnell St	21224
5/21/2015	3,920	Rags, Rain, Grease	0.15	Patapsco River	2800 Sethlow Rd	21225
5/21/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.15	N/A	1503 Clifton Ave	21217
5/22/2015	Evidence of Overflow	Rags	0.00	N/A	136 Duncan St	21231
5/25/2015	Evidence of Overflow	Rags, Grease	0.00	N/A	1328 Tompkins St	21225
5/26/2015	1,340	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	Jones Falls	1000 W North Ave	21217
5/26/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	4827 Keswick Rd	21210
5/26/2015	290	Unknown	0.00	N/A	420 E 25th St	21218
5/26/2015	280	Rags, Grease	0.00	Jones Falls	6202 Wirt Ave	21215
5/27/2015	120	Other	0.04	Gwynns Falls	500 Poplar Grove Rd	21223
5/29/2015	Evidence of Overflow	Rags	0.00	N/A	500 Hilton St	21229
5/29/2015	Evidence of Overflow	Roots	0.00	N/A	2608 Washington Blvd	21230
6/1/2015	Evidence of Overflow	Rags, Roots	1.38	N/A	714 Glen Allen Dr	21229
6/1/2015	170	Roots, Trash, Sand, Gravel, Rocks	1.38	Jones Falls	306 E 33rd St	21218
6/1/2015	Evidence of Overflow	Roots	1.38	N/A	5235 Linden Heights Ave	21215
6/2/2015	Evidence of Overflow	Rags, Roots	0.28	N/A	1700 Westwood Ave	21217



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Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
6/2/2015	Evidence of Overflow	Rags, Roots	0.28	N/A	818 Stamford Rd	21229
6/2/2015	Evidence of Overflow	Rags, Grease	0.28	N/A	1704 W Rogers Ave	21209
6/3/2015	Evidence of Overflow	Rags, Roots, Trash, Sand, Gravel, Rocks	0.04	N/A	3302 The Alameda	21218
6/4/2015	Evidence of Overflow	Rags, Roots	0.11	N/A	1628 Braddish Ave	21216
6/9/2015	1,600	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	N/A	302 S Lehigh St	21224
6/10/2015	Evidence of Overflow	Rags	0.01	N/A	2721 Hampden Ave	21211
6/10/2015	Evidence of Overflow	Rags, Grease	0.01	N/A	336 S Calhoun St	21223
6/10/2015	Evidence of Overflow	Rags, Grease	0.01	N/A	305 Cable St	21210
6/10/2015	Evidence of Overflow	Rags, Grease	0.01	N/A	1522 E Biddle St	21213
6/10/2015	Evidence of Overflow	Rags, Grease	0.01	N/A	1910 Eastern Ave	21231
6/10/2015	Evidence of Overflow	Rags, Grease	0.01	N/A	6100 Boston St	21224
6/11/2015	3,520	Rags, Grease, Trash, Sand, Gravel, Rocks	0.01	Gwynns Falls	2200 Presbury St	21216
6/11/2015	798	Grease	0.02	N/A	2229 Washington Blvd	21230
6/12/2015	Evidence of Overflow	Rags, Roots	0.02	N/A	501 S Hanover St	21201
6/12/2015	Evidence of Overflow	Other	0.02	N/A	4304 Sheldon Ave	21206
6/12/2015	Evidence of Overflow	Rags	0.02	N/A	2040 Linden Ave	21217
6/15/2015	Evidence of Overflow	Other	0.14	N/A	3300 Clipper Mill Rd	21211
6/16/2015	1,800	Rags, Grease, Trash, Sand, Gravel, Rocks	0.01	Herring Run	5916 Frankford Ave	21206
6/16/2015	Evidence of Overflow	Rags, Roots	0.01	N/A	2747 Rayner Ave	21216
6/17/2015	610	Roots	0.33	N/A	534 Bridgeview Rd	21225
6/17/2015	Evidence of Overflow	Rags	0.33	N/A	2442 Etting St	21217
6/17/2015	Evidence of Overflow	Rags, Grease	0.33	N/A	5656 The Alameda	21239
6/18/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.30	N/A	1240 N Broadway	21213
6/20/2015	Evidence of Overflow	Rags	1.03	N/A	2601 Boone St	21218
6/21/2015	Evidence of Overflow	Rags, Roots	0.10	N/A	3413 Menlo Dr	21215
6/24/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.00	N/A	1901 Falls Rd	21217
6/24/2015	Evidence of Overflow	Rags, Grease	0.00	N/A	4000 The Alameda & Argonne Dr	21218
6/25/2015	2,410	Trash, Sand, Gravel, Rocks	0.28	N/A	2709 Claflin Ct	21225



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Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
6/26/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	826 Glenwood Ave	21212
6/27/2015	51,000	Rain	2.65	Inner Harbor	1700 E Chase St	21213
6/28/2025	3,087	Rags, Roots, Trash, Sand, Gravel, Rocks	0.11	Jones Falls	501 W University Pkwy	21210
6/28/2025	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks, Pipe Break	0.11	N/A	725 Stoney Run Dr	21210
6/28/2025	68,000	Rain	0.11	Jones Falls	2201 Falls Rd	21211
6/28/2025	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.11	N/A	3321 Spaulding Ave	21215
6/28/2025	1,140	Rags, Grease, Trash, Sand, Gravel, Rocks	0.11	Herring Run	4522 Hamilton Ave	21206
6/29/2015	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	N/A	Falls Rd and Maryland Ave	21211
6/30/2015	Evidence of Overflow	Rags	0.10	N/A	2905 Woodland Ave	21215
6/30/2015	Evidence of Overflow	Rags, Roots	0.10	N/A	2911 Oakley Ave	21215



Updated through June 30, 2015

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
	2	4/11/2007	6225 York Rd behind Walker Mews Apartment Building	21212	Herring Run	5/22/2015	2395	2,791,576	Dye and ammonia testing and CCTV inspections performed prior to CIPP lining. CIPP lined sewer, but testing indicated no resolution. After further testing, additional CIPP Lining was recommended/installed. Rehab work is completed. Confirmatory testing to be performed.	Confirmatory testing still positive. Location is not abated. More rehab work is in progress. Abated on 5/22/2015
1	14	9/18/2007	JHU Campus	21218	Jones Falls	Not Resolved	On-going	3,564,478	City letter sent to JHU on 3/30/11 requiring that repairs be made. JHU completed significant repair effort. Subsequent retesting by the City determined that the repairs to date have been unsuccessful. City met with JHU maintenance on 12/5/13. Owner continues to address the issue. 200 feet of lining were completed. Confirmatory testing to be performed. Confirmatory testing performed. Seems to be abated.	Follow up sampling after a rainfall event to clear pipe.
	20	7/5/2006	W. 24th & Morton St.	21218	Jones Falls	4/30/2015	2373	3,417,120	It was confirmed that the private properties contributing to the problem were 2417 and 2433 Maryland. Ave. . A violation notice was issued by HCD/HABC and on 9/19/11, HCD reported that 2417 and 2433 Maryland Ave. have been corrected by a private plumber. Testing of 2433 confirmed that they had resolved their problem. Located additional Leaking private connection. Confirmatory dye testing of 2431 Maryland Ave showed dye negative to storm drain. Recommendation was forwarded to construction on 1/14/2015. Confirmatory testing is pending. Confirmatory testing performed.	Abated on 4/30/2015
2	38	11/6/2009	3302 Esther Place (inside 54" storm drain)	21212	Inner Harbor	Not Resolved	On-going	1,187,712	For north side, letter to be sent to HCD/HABC. HCD issues a violation notice on 01/10/11. For south side, pipe has been plugged. SWMD checked on the plug on 12/15/10, and it continues to hold. Active - With Department of Housing and Community Development (DHCD). Violation Notice issued 1/12/2015.	Continue to follow up with DHCD and the owner
3	41	6/3/2010	Cross Country & Key Ave (Storm Drain MH with sewage in bottom)	21215	Western run	Not Resolved	On-going	266,832	Verified as SDUO site by ammonia field test and dye test completed on June 3, 2010. Dye testing and CCTV inspection revealed CIPP Lining is recommended. Rehab work is completed. Confirmatory testing to be performed. Location is not abated. Site visit is secheduled for 1/20/2015	After the site visit, additional rehab recommendation was forward to construction on 1/20/2015. lining completed and ready for testing
4	43	5/26/2010	Cross Country & Chilham Rd (300 ft northeast of intersection in an uncharted 15" Storm Drain)	21209	Western Run	Not Resolved	On-going	75,845	Verified as SDUO site by ammonia field test and dye test completed on May 26, 2010. Lining recommendation was forwarded to construction on 1/14/2015. A manhole needs to be located prior to the start of lining.	Rehab work is in progress
5	55	8/10/2011	Mamasota & Parkside	21206	Herring Run	Not Resolved	On-going	52,507	Sewage is infiltrating the storm entering storm drain at Cylburn Ave. On 7/26/2011, on-call consultant recommended the sewer line be CIPP lined. Site lined, but follow-up testing documented ammonia. Heavy cleaning complete - CIPP lining is pending	Rehab work is in progress

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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
6	68	10/11/2012	Mason & McMechen	21217	Jones Falls	Not Resolved	On-going	114,278 T	Dye test program and CCTV performed. Recommendation was forwarded to construction on 1/14/2015. After a site visit, the recommendation was amended and sent back to construction on 3/18/2015.	Stom drain was located and re-routed to sewer. Work completed. Ready for re-testing
7	69	12/4/2012	Fait & Grundy	21224	Inner Harbor	Not Resolved	On-going	54,029 T	Heavy cleaning and CCTV performed. Dye testing of 3906 Fait Ave confirmed the property is not the source.Manhole installed and the sanitary house connection (SHC) was disconnected from storm drain. SDUO not abated. Recommendation was forwarded to construction on 1/14/2015. Work completed	Ready for confirmatory testing as of 5/7/15. Still high ammonia. Need to flush the storm drain. Flusing completed. Ready for re-testing
8	70	12/5/2012	Haven & Bank	21224	Inner Harbor	Not Resolved	On-going	33,732 T	Dye testing and manned inspection confirmed private connections. Property owner notified. Working with the property owner to correct the issue.	Recommendation was sent to construction on 3/18/2015. On 5/28/2015, MH has been located and raised to grade. The property owner is working on the connections.
9	78	7/26/2013	500 block of Bloom St.	21217	Jones Falls	Not Resolved	On-going	872,216 T	CCTV program in progress. Lining repair work was performed under Consent Decree project. Replacing/coating 3 manholes is planned	Work is completed. Ready for re-testing
10	79	7/31/2013	Perkins Homes, 263 Dallas Ct.	21223	Inner Harbor	Not Resolved	On-going	147,186 T	Dye test program and CCTV conducted. confirmatory test showed dye negative to storm drain. Rehab work is completed. Confirmatory testing to be performed. Location is not abated. Additional lining is planned.	Still high ammonia. Send connection replacement recommendation to construction on 6/19/2015. Work completed and ready for re-testing
11	82	9/17/2013	Fleet & Fagley Streets	21224	Patapsco	Not Resolved	On-going	734,033 T	Dye test program and CCTV in progress. Under Investigation. CCTV is scheduled	CCTV completed and lining recommendation was forwarded to construction. Rehab work is in progress
12	86	8/12/2014	2100 BLK Hamilton Av	21214	Herring Run	Not Resolved	On-going	16,382 A	Replacement of 3 sewer house connections is planned. Replacement of 3 sewer house connections is planned. Work completed. Confirmatory test is pending	2 sewer connections were completed. Confirmatory testing is slightly poisitive. Connection number 3 will be rehabbed
13	87	8/15/2014	Charles St. and Lanvale St	21214	Jones Falls	Not Resolved	On-going	12,928 A	Part of CD project 897R. Work is removed from SC897R to expedite the rehab.	Rehab work is in progress

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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
14	92	1/29/2015	4512 York Rd.	21212	Herring Run	Not Resolved	On-going	6,422 A	Field investigation was performed and rehab recommendation was forwarded to construction on 3/18/2015.	Rehab work is completed and confirmatory testing is pending
								1,412 A	Rehab recommendation was forwarded to construction on 3/18/2015	Construction complete. Ready for confirmatory testing.
15	93	2/19/2015	2400-2500 Blocks of W. Coldspring Ln	21215	Jones Falls	Not Resolved	On-going		Rehab recommendation was part of consent decree project SC899. Work is completed	Confirmatory testing is pending.Problem is still active. Sent another lining recommendation
16	94	2/19/2015	2600 Block of Loyola Northway	21215	Jones Falls	Not Resolved	On-going	2,767 A		
	95	4/9/2015	4201 Pennington Ave	21226	Inner Harbor	6/10/2015	62	25,728 A	smoke tesing will be scheduled shortly	Abated on 6/10/2015
17	96	5/14/2015	3400 Block of Ash St	21211	Jones Falls	Not Resolved	On-going	10,010 A	Work completed end of June 2015	Ready for retesting

SDUO Summary:

1. Total SDUO Sites Documented: 98

2. Total SDUO Sites Resolved: 81 (83% Complete)

3. Total Active SDUO Sites on Private Property: 5

4. Total SDUO Sites Unresolved: 17 (17% Open)

5. New SDUO Sites documented in the last Quarter: 2

6. Under the column entitled "Date of Resolution", if the note reads Not Resolved an end date of 6/30/2015 was used to determine the quantity of discharge up to that point.

7. All of the Estimated Quantities of Discharge listed in the above table are based on a start date of October 30, 2008 in accordance with the letter issued by EPA dated November 12, 2010. The actual start date of the sewer discharge based on testing is listed in the Date of Occurrence.

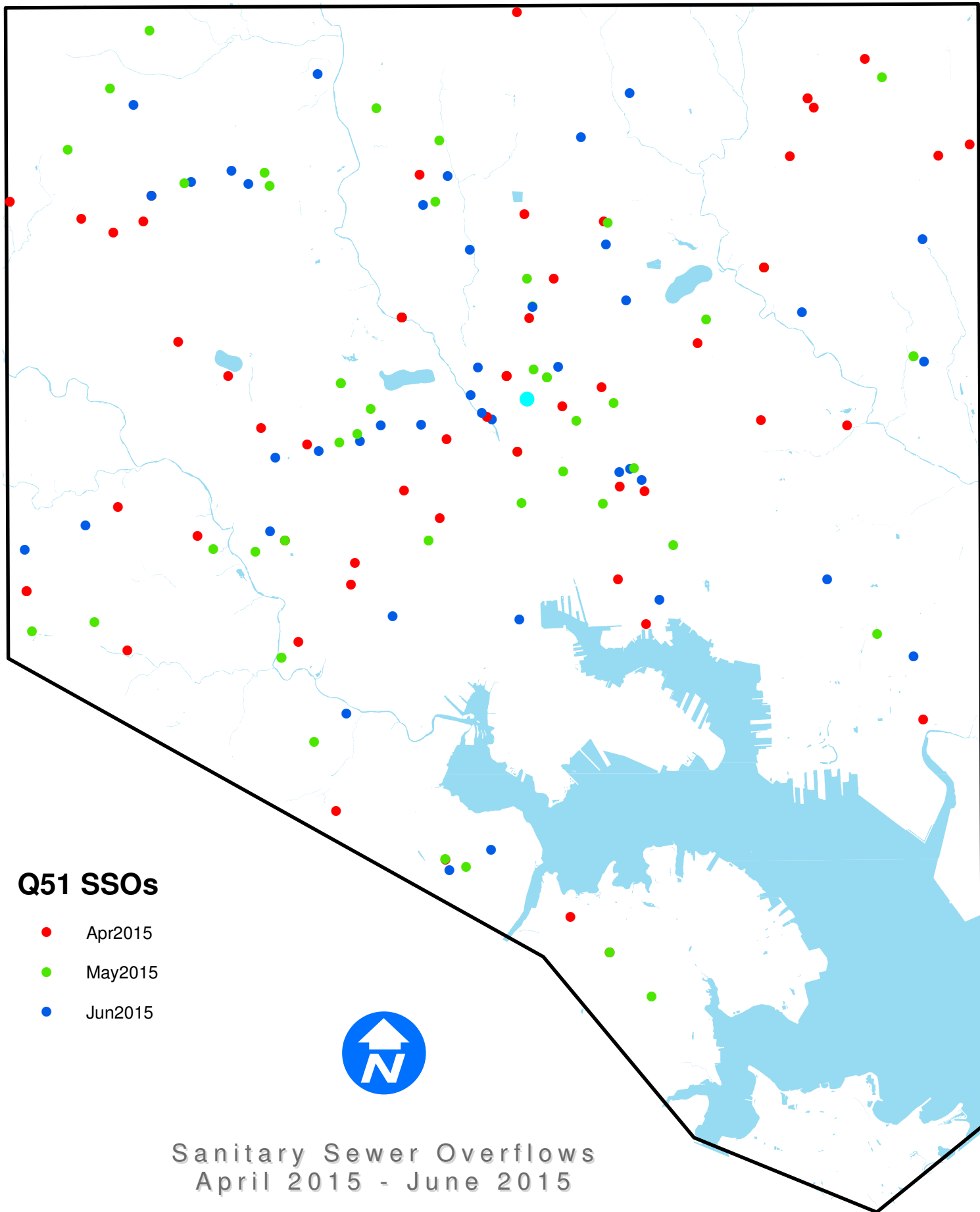
8. (T) - Flow calculated utilizing TKN concentration.
(A) - Flow Calculated utilizing Ammonia concentration.

For all active sites, the City ultimately, plans on calculating flows using TKN - per guidelines of the approved protocol by EPA

9. For sites that have not yet been resolved, "Est. Quantity of Discharge (Gal)" is readjusted each quarter to reflect the elapse of time and any recent field information (flow, NH3, TKN) that may have been collected for a given site.

SDUO Site abated

SDUO Site on Private Property



Q51 SSOs

- Apr2015
- May2015
- Jun2015



Sanitary Sewer Overflows
April 2015 - June 2015



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