CITY OF BALTIMORE

STEPHANIE RAWLINGS-BLAKE, Mayor



DEPARTMENT OF PUBLIC WORKS

BUREAU OF WATER AND WASTEWATER 300 Abel Wolman Municipal Building Baltimore, Maryland 21202

July 28, 2011

VIA OVERNIGHT MAIL

Chief, Environmental Enforcement Section **Environment and Natural Resources Division** U.S. Department of Justice 1425 New York Avenue, N.W. Washington, D.C. 20005

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

Martin Harrell Acting Chief, NPDES Enforcement Branch United States Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103

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Chief, Environmental Enforcement Section **Environment and Natural Resources Division** U.S. Department of Justice 950 Pennsylvania Avenue, N.W. Washington, D.C. 20530

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

Joyce A. Howell (3RC20) (Cover letter only) Senior Assistant Regional Counsel United States Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103

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United States, et al. v. Mayor and City Council of Baltimore RE: Civil Action No. JFM-02-1524 Calendar Quarterly Report No. 35 For Calendar Quarter Ending June 30, 2011

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. 35, for the Calendar Quarter ending June 30, 2011.

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July 28, 2011 Page 2

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,

Rudolph S. Chow, P.E.

Bureau Head

Enclosures

RSC/ajd

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File

City of Baltimore Sanitary Sewer Overflow Consent Decree

Civil Action No. JFM-02-1524

Calendar Quarterly Report No. 35 For Calendar Quarter ending June 30, 2011

Submitted: July 29, 2011

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

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

Statement of Certification

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

Rudolph S. Chow, P.E.

Bureau Head

Table of Contents

<u>Section</u>		<u>Page</u>
A.	INTRODUCTION	3
B.	PROGRESS OF IMPLEMENTATION OF SECTION VI REQUIREMENTS	4
	Paragraph 8: Elimination of Sanitary Sewer Overflow and Combined Sewer Overflow Discharges	4
	Paragraph 9: Collection System Evaluation and Sewershed Plans	8
	Paragraph 10: Illegal Sewer Connections	11
	Paragraph 11: Pumping Station Inspection, Rehabilitation, and Repair	12
	Paragraph 12: Collection and Transmission System Model	14
	Paragraph 13: Collection System Operation and Maintenance	14
	Paragraph 14: Information Management System Program	15
	Paragraph 15: Valve Inspection and Repair Program	16
	Paragraph 16: Emergency Response Plan – Un-permitted Discharges	16
	Paragraph 17: Reporting of Discharge Events and Recordkeeping	16
C.	DESCRIPTION OF ANTICIPATED PROBLEMS WITH SECTION VI REQUIREMENTS	17
D.	DESCRIPTION OF SEP ACTIVITIES	17
E.	ADDITIONAL MATTERS FOR THE ATTENTION OF THE EPA AND MDE	18
Appe	ndix 1 – Status of Paragraph 8 Construction Projects	
Appe	ndix 2 – Status of Paragraph 9 Construction Projects	
Appe	ndix 3 – List of Illegal Connections	
Appe	ndix 4 – Pumping Station Work Orders	
Anne	ndix 5 – Summary of Reported Overflows	

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.

<u>Paragraph 8: Elimination of Sanitary Sewer Overflow and Combined Sewer Overflow Discharges</u>

- A. <u>General Requirements:</u> During the calendar quarter ending June 30, 2011, 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.** <u>Construction Projects:</u> 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. 4: Jones Falls Pumping Station Force Main/Pressure Sewer: On December 17, 2007 the City requested an extension to extend the project schedule for 60 calendar days resulting in a Practical Completion deadline of February 27, 2008. The City of Baltimore extension request was granted in a letter dated April 15, 2010 by MDE. The City still awaits a response from EPA. The resulting request was because the Contractor recently encountered unforeseen conditions in the form of extremely hard rock between the intersection of Falls Road and Roland Avenue. The contractor has used mechanical hammers, blasting and expansive slurries in an effort to excavate through this rock area. Practical Completion was achieved for this project on January 23, 2008.

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. Completion was achieved on May 29, 2009, for lower portion of project SC 839RR -Stony Run Interceptor. The Construction of the remaining portion of this project continues but the practical completion achieved allows the City to comply with the requirements of the Consent Decree.

Project No. 10: Greenmount Avenue Interceptor: This project was split into 2 phases:

- Phase I (SC-820) was advertised on December 16, 2005 in compliance with the advertising requirements of the Consent Decree. Practical completion of this project was complete as of May 4, 2007.
- Phase II (SC-833) of this project was advertised on December 23, 2005 in compliance with the advertising requirements of the Consent Decree, however only receiving one bid that was 50% over the estimate and was rejected. This project was re-advertised on March 17, 2006. Construction notice to proceed was granted to the contractor on August 14, 2006. In October 2004, the City sent a letter to MDE/EPA requesting that the project scope of work be changed from construction of the new pumping station to construction of a new gravity relief sewer. MDE and EPA subsequently approved this request in letters dated February 2, 2005 and December 21, 2004, respectively. The revised scope of work resulted in additional complexities, including major water and electrical utilities, tunnel conflicts, and railroad right of way issues. In addition, the scope includes microtunneling. The City sent a letter to MDE/EPA, dated July 7, 2006,

requesting to extend the Practical Completion deadline by 180 days to December 30, 2007. A response from MDE was received February 26, 2007 granting the requested extension. An extension letter was sent to MDE and EPA on December 7, 2007 requesting a 90 day extension for the Practical Completion deadline of March 28, 2008. This extension was approved and a subsequent extension for 90 days through June 27, 2008 was submitted, we await a response from MDE/EPA. Practical Completion was achieved for this project on May 27, 2008.

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 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 currently underway.**

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 proceeding on schedule, and at this point, no problems are expected in meeting the milestone dates specified in Appendix D of the Consent Decree.

C. <u>Separate Sanitary Sewer Characterization Report:</u> This requirement has been completed.

D. <u>Elimination of Combined Sewer Overflows:</u>

Walbrook: This project has been completed.

Forest Park: During the calendar quarter ending June 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. The City is awaiting a response from MDE and EPA regarding this letter.

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

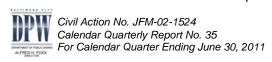
As of June 30, 2011, **3 flow meters are installed** as indicated in Table 8-1 specifically for Paragraph 8 Projects.

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

Consent Decree	ADS			No. of Mete	rs
Project ID No.	Project ID No.	Project	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 April, May and June 2011, prepared by ADS Environmental Services is submitted on a compact disk in the inside of the back cover of this Calendar Quarterly Report. The ADS report includes:

Meter location maps



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

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

F. Progress Reports:

Progress of work under Paragraph 8 is as reported herein.

Paragraph 9: Collection System Evaluation and Sewershed Plans

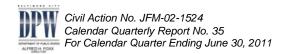
A. The milestone dates for completion of the Sewershed Study and Plan for each of the City's eight sewersheds, as established by Paragraph 9.B of the Consent Decree, recognize that evaluation work will not begin in earnest until several years after the Date of Entry.

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

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

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

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



- **B.** <u>The Sewershed Study and Plan Elements:</u> The Plan Elements in the Consent Decree are to be followed for each sewershed.
- **C.** <u>Collection System Inspections:</u> 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. <u>Infiltration and Inflow ("I/I") Evaluation:</u> Flow monitoring began on May 09, 2006 and as of June 30, 2011, the flow monitoring continues at 10 meter locations throughout the City including long term monitoring program.
- E. <u>Long-Term Capacity/Peak Flow Management:</u> During the calendar quarter ending June 30, 2011, 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 The City received a letter from United States identified sensitive areas. 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 5year 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, and awaits further concurrence from EPA and MDE on the proposed methodology.

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 flows. 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 type 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.

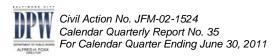
Paragraph 10: Illegal Sewer Connections

A. <u>Illegal Private Connections:</u> During the calendar quarter ending June 30, 2011, 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 above 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, 806 W University Pkwy and 6309 Greenspring Ave.

6309 Greenspring Ave: It has been forwarded to HCD for further processing.

806 W University Pkwy: Upon further investigations, it was found that the area drain located on 806 W University Pkwy connects to an uncharted storm drain in the public right-of-way (ROW). This uncharted drain flows into a sanitary manhole. Therefore, 806 W University Pkwy has been determined



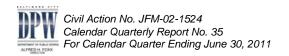
not to be a private illegal connection, but a cross connection in the public ROW. The City is working expeditiously to address this newly found cross connection.

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. 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.

- **B.** <u>Updated List of Illegal Connections:</u> Appendix 3 contains the updated list of 2 known illegal connections.
- **C.** <u>Illegal Connection Enforcement and Implementation Plan:</u> 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, 2011, 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.

<u>Paragraph 11: Pumping Station Inspection, Rehabilitation, and Repair</u>

A. <u>Pumping Station Rehabilitation and Repair:</u> 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, 2011, 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. <u>Pumping Station Remote Monitoring:</u> As of June 30, 2011, Baltimore continuously monitored pumping station data in accordance with Paragraph 11.C. of the Consent Decree. Alarm data was electronically archived.
- **D.** <u>Pumping Station Equipment Inventory:</u> As of June 30, 2011, 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. <u>Pumping Station Preventative Maintenance:</u> 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, 2011, 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. During the calendar quarter ending June 30, 2011, there were no overflows at any City of Baltimore Pumping Stations.

- **F.** Pumping Station Operation and Maintenance Manuals: As of June 30, 2011, 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.** <u>Progress Reports:</u> Table 11-1 Summarizes the status of Baltimore's pumping station inspection and repair program during the calendar quarter ending June 30, 2011.

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				None
Brooklyn	All Pumping			None
Dundalk	Stations			None
Jones Falls	inspected twice per day	See Appendix 4	See Appendix 4	None
Locust Point	throughout	See Appendix 4	See Appendix 4	None
Quad Avenue	reporting			None
McComas	period			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

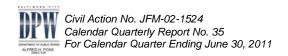
- **A.** The hydraulic modeling task for each sewershed will be performed utilizing the previously-selected hydraulic modeling software package: InfoWorks, marketed by Wallingford Software.
- **B.** <u>Model Elements:</u> The InfoWorks hydraulic modeling package is fully compliant with the requirements listed in Paragraph 12.B.i of the Consent Decree.
- **C.** <u>Model Project Approach Report:</u> 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.** <u>Model Certification:</u> Baltimore will complete implementation of the Model for each sewershed on or before submission of the respective Sewershed Study and Plan required under Paragraph 9, and will certify the model for each sewershed at that time.
- F. <u>Progress Report:</u> 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, 2011, 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 is due by October 31, 2011.

Paragraph 14: Information Management System Program

- **A.** During the calendar quarter ending June 30, 2011, 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. <u>500 Scale Maps:</u> This requirement has been completed as reported in Quarterly Report No. 7.
- **D.** <u>Global Positioning System:</u> 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.



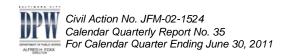
- **E.** <u>Inventory of Collection System Components:</u> On September 24, 2004, Baltimore demonstrated to EPA and MDE that the GIS is fully functioning and capable of displaying the information described in Paragraph 14.E for each component.
- **F.** <u>Update Inventory of Collection System Components:</u> 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. <u>Progress Reports:</u> Development of the Baltimore collection system inventory database continued throughout the calendar quarter ending June 30, 2011. 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.** <u>Progress Reports</u>: 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.** <u>Emergency Response Plan (ERP):</u> 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.** <u>Yearly Review and Update:</u> During the Calendar Quarter ending September 30, 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.

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

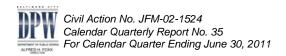
- **A.** During the calendar quarter ending June 30, 2011, Baltimore has complied with the reporting requirements for overflows from the wastewater collection system as established by Paragraph 17 of the Consent Decree, by NPDES Permit Numbers 21555 and 21601, by State Discharge Permit Numbers 89-DP-0581 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, 2011 is provided in Appendix 5.
- **B.** During the calendar quarter ending June 30, 2011, 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, 2011, 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, 2011, 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



APPENDIX 1

STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS

APPENDIX 1 STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS As of June 30, 2011

PROJ.		DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
		UPPER J	ONES FALLS SEWE	RSHED			
1	Western Run Interceptor (JPI Branch) Sanitary Contract Nos. 760 & 789	Install approximately 880 linear feet of 30-inch parallel relief sewer from JPIB49 to JPI10 (along JPI90A-JPI94) (SC760) Install approximately 9,400 linear feet of 21- to 24-inch parallel relief sewer from JPI20 to JPI65 (SC789) 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	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	force/pressure sewer	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		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 pratical completion. Practical completion occured 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. Benificial 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
		LOWER J	IONES FALLS SEWI	ERSHED			
7	(Upper Portion of Gravity Mainline) Sanitary Contract Nos. 773 & 818	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) Rehabilitation of approximately 16,500 linear feet of existing sewer ranging from 12- to 50-inch (SC773) Inverted siphon rehabilitation in Falls Road (manhole JG062) (SC773) 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.

Appendix 1 - 1 Note: Shaded date cells indicate completion.

APPENDIX 1

PRO.		DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED		DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
8	Stony Run Interceptor and Pumping Station (JGF Branch)** Sanitary Contract No. 819, 838, 839 8 847	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;	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	Replace (upsize) approximately 4,400 linear feet of existing 12- to 24-inch sewer with new 21- to 36-inch sewer along branch interceptor, excluding proposed 901 N. Howard project area Improvements to siphon/SSO No. 125 under I-83 (JGB18-JGB19) 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***		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.
11	Elimination of Siphon Blowoff (Siphor No. 6 - south of North Avenue Bridge, west of RR tracks) Sanitary Contract No. 830		On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 68	Complete
* App	proved by MDE\EPA. ** Appro	ved by MDE, ***Approved by EPA					
		HERI	RING RUN SEWERS	HED			
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	Cleaning and inspection of siphons with repairs as necessary. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 92	Complete*

APPENDIX 1 STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS As of June 30, 2011

PROJ.		DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
		GWYN	INS FALLS SEWERS	SHED			
17	Powder Mill System Improvements including GFG branch in Gwynns Falls Sewershed Sanitary Contract Nos. 777 & 804	s 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 Franklintown Rd.) SC No. 827	Cleaning and inspection of siphons with repairs as necessary. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 84 and 22P	Complete*
		CON	IBINED SEWER ARE	AS			
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, 25P, 26P, 27P and 31P. SSO Nos. 10P, 18P, 19P & 31P are eliminated.	Complete
			HIGH LEVEL SEWE	RSHED			
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	Cleaning and inspection of siphons with repairs as necessary. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 79 and 81	Complete*
		LOV	V LEVEL SEWERSH	ED			
26	Elimination of Siphon Blowoff (Siphon No. 8 - rear of 800 Unetta Avenue) Sanitary Contract No. 827	Cleaning and inspection of siphon with repairs as necessary. Elimination of blow-off.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 32P	Complete
* App	roved by MDE\EPA. ** Appro	ved by MDE, ***Approved by EPA					

APPENDIX 2

STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS

STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS As of June 30, 2011

Proj. No.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF CONSTRUCTION COMPLETION	DATE OF EVALUATION COMPLETION	STATUS
		JONES FALLS SEWERSH	IED			
JF-3	Ü	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 (P)	1/1/2013 (P)	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).
		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 (P)	1/1/2014 (P)	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).
	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 was completed and a final report was delivered on June 30, 2010.	N/A	N/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.
		OUTFALL OF WEDGIE				

OUTFALL S	EWERSHED
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OF-6 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)

11/26/10 (A) 12/31/2014 (P)

Contract was advertised on November 26, 2010. Bids were received on January 19, 2011, and were much lower than the engineer's estimate. This contract was awarded to Metra Industries, who was the lowest bidder, on June 08, 2011.

12/31/2015 (P)

HIGH LEVEL SEWERSHED

HL-8	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 during a two year event.	9/15/2010	12/15/2011 (P)	6/15/2012 (P)	Received final comments from Water Engineering in June 2011. The specs are being revised before the final design is sent for CRC review. CRC review anticipated in August 2011.
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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 Biltmore 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
, ,	2002 0.001 114.	13 A 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
8.	5616 Cross Country Blvd.	99 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
9.	6309 Fairlane Dr.	154 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
7.	eco, ramane bir	154 B 1	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
10.	6908 Fieldcrest Rd.	272 B 3	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
11.	3800 Glengyle Ave.	275 B 13	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
	3000 Glerigyle Ave.	273 15 13	Troperty Owner	Downspour connection	0/20/2003		Newly Identified	It was confirmed as an illegal connection in
10	(200 On a mark of Access	450 D 5	D	D	/ /10/0010		100 1	9
12.	6309 Greenspring Ave.	153 B 5	Property Owner	Downspout	6/18/2010		Illegal	January 2010 after carrying out more dye-
								testing
		153 B 4	Property Owner	Area Drain	3/28/2005	Positive	Newly Identified	Confirmed Not Illegal
13.	2212 Ken Oak Rd.	100 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
		100 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
14.	2416 Ken Oak Rd.	103 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
15.	5609 Key Ave.	50 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
16.	2504 Larryvale Rd.	154 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
17.	5815 Lochlea Rd.	116 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
18.	5806 Park Heights Ave.	78 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
		78 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
		78 B 3	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
		78 B 9	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
		78 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
19.	5905 Park Heights Ave.	95 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
20.	6414 Park Heights Ave.	315 A 4	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
	J J	315 A 3	Property Owner	Area Drain	3/22/2005	Positive	Newly Identified	Confirmed Not Illegal
21.	7126 Park Heights Ave.	280 B 16	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
22.	6311 Pearce Ave.	203 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
		203 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
23.	6106 Pimlico Rd.	135 A 1	Property Owner	Driveway Drain	3/28/2005	Positive	Newly Identified	Confirmed Not Illegal
24.	6306 Pimlico Rd.	127 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
25.	5503 Rusk Ave.	30 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
26.	3208 Shelburne Rd.	334 A 1	Property Owner	Driveway Drain	3/15/2005	Positive	Newly Identified	Confirmed Not Illegal
27.	1702 South Rd.	324 A 2	Property Owner	Downspout	6/20/2005	. 5546	Newly Identified	Confirmed Not Illegal
28.	2117 Sulgrave Ave.	320 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
29.	2607 Taney Rd.	183 B 4	Property Owner	Driveway Drain	3/23/2005	Positive	Newly Identified	Confirmed Not Illegal
30.	2615 Taney Rd.	183 B 2	Property Owner	Downspout	6/20/2005	TOSITIVE	Newly Identified	Confirmed Not Illegal
31.	2700 Taney Rd.	183 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
32.	2808 Taney Rd.	182 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
32.	2000 rancy kd.	182 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
33.	2810 W. Strathmore Ave.	180 A 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
34.	3602 Chesholm Rd.	100 A 3	Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
35.	6708 Park Heights Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
36.	4214 Groveland Ave.			Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Hiegal
37.	4414 Groveland Ave.		Property Owner Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Hiegal
38.	2705 Queen Anne Ave.				5/9/2005			
38.	2705 Queen Anne Ave.		Property Owner	Downspout	3/9/2005	Positive	Newly Identified	Confirmed Not Illegal
39.	806 W University Pkwy	32	Property Owner	Area Drain	7/1/2008	Positive	Illegal	Confirmed Not Illegal
	,						3	

APPENDIX 4

PUMPING STATION WORK ORDERS

						Completed/Issued W/O F *CORRECTIVES & MODS*	
		Completed	DATE	FILE USHSTOO EQHST USHST31 DCCTL ETEXTS	QUERY NAME	è	
		/Issued_RptPu	14:16:41	LIBRARY H MMS810F H MMS810F H MMS810F D MMS810F D	HONTHLYRUN	Tony 1, 2011 June_30, 2011 -	
		Completed/Issued RptPumping Stations only	111	HENBER FOR USNSTOO USN EEQHST EQH USNST31 USN DCCTL DCC ETEXTS TEX	YRUN	ort Tony LOCATIONS: Apr. 1, 2011> Brooklyn Dundalk E June 30, 2011> Jones Falls Locust Pt. P	
		only		FURHAT USMSTOOR EAMSTR USMST31R DCCTLR TEXTSR		DCATIONS: Dundalk Eas Locust PtMcC Hestport	
						Eastern Ave McConas_St.	
	2						

Punping Station Hachine Machine Sts Humber Description 951000 FACILITY, BROOKLYH PUMPING 30	JF LOCPO MCST QUAD WSTPT Full Problem Prty Description Code	- ·	Code	WO CHPIt	WII Shtdun Issue Class Date
Machine Machine Sts Humber Description 951000 FACILITY, BROOKLYH PUMPING 30	Full Problem Prty Description Code	4.0	के में	Chplt Date	TD .
Munber Description 951000 FACILITY, BROOKLYH PUMPING 30	Prty Description Code	م ع	de	Cmplt	rg
951000 FACILITY, BROOKLYH PUMPING					1
			ELCPS 20	20110607	20100730
11.81804 955101 HEATER UNIT #1(UPPER LEUF 30	STIELPER 64982		96	20110411	20101213
82903 951000 FACILITY, CRUDKLYN PUMPING 30	generator truck battery charging system and make sure truck		CHS	20110405	20110330
951000 FACILITY, BROOKLYN FUMPING 30	stielper 6472-stielper	CS MC		20110415	20110413
11.83174 951000 FACILITY REGENTLY PUMPING 25	3D working Sullivan 6-4972		ELCPS 20	20110426	20110426
951000 FACILITY, BROOKLYN PUMPING 30	door/frame. Sullivan 6-4972	E I		20110509	20110506
30	and_replace_fuel_filters_and_gaskets_requester_r_slayton	<i>(</i>)	3	20110511	20110510
83201 956101 GENERATOR, EMERGENCY SET 30	and replace fuel filters and gaskets requester r slayton			20110511	20110510
# #	ayton 6-9752		S	20110517	20110513
951000 FACILITY GROUNTLY PUMPING 30	Operation-stiplant 64972		THERE SU	20110527	20110627
956101 GENERATOR, EMERGENCY SET 30	stielper 64972			20110527	20110527
(M 25	stielperc 64972				20110531
951000 FACILITY, FROOKLYN PUMPING 25	stielperc 64972				20110531
.83235 1 952801 TANK HYDROPHEUMATIC SEAL 30			FICES 20	20110601	20110531
.83649 951202 MUTUR, SENAGE PUMP #2	stielperc 64973			20110607	20110606
	stielperc 64972			20110606	20110606
951203 MOTOR SEMAGE PUMP #3 30	3D stielberg 64977		FICES 20	20110614	20110607
951000 FACILITY, BROOKLYN PUMPING 30	Emindom unit electric room3 stielper 64972			20110614	20110613
83665 956101 GENERATOR, EMERGENCY SET 30	RUN TIME	ì		20110617	20110614
11.83666 1 955304 FAN, #4 EXHAUSTCHET HELL-O 25	64972	S S			20110614
83667 951000 FACILITY GROUKLYN PUMPING 25	stie:lper 64972		1173	/TOUTTOY	20110614
951000 FACILITY, DROOKLYN PUMPING 25	stielperc 64972		TICHE!		20110622
					20110623
951202 MUTUR SEWAGE PUMP #2 25	stielberc 64972		FI CPS	77001107	20110623
PUMP, VACUUM #1 25	REQ. BY J. NARDCK 6-9748	-76-	ELCPS		20110623
952701 MOTOR, SEAL WATER PUMP #1 25	reqby_jnarock_6-9748		ELCPS		20110623
11.83682 951000 FACILITY, BROOKLYN PUMPING 25	3D SEE JOE PARKER IN NOMFB NEED TO TAKE A REPLACEMENT DUMPSTER (CS 6R	GRDS		20110629
Location BRKLYN:					
COUNT 34					
DUNDAL 11.82860 2 947504 FAX, PRU-4 NET WELL EXHAUS 30	stielperc 64972		MCHPS 20	20110407	20110311
30	STIELPERC 64972			20110406	20110314
82904 947504 FAN, PRU-4 WET WELL EXHAUS 25	D Sullivan 6-4972	II SU			20110401
MELLE STUDY BALDIO SE	STIELPET 6497Z		ELCPS		20110406
02/7/ 02/2005 FAW BRILLE EVUNICATIONS OF COLUMN TARGET FOR ASSETS OF COLUMN TARGET FOR	REA ST N SHRIUR OR		TCHPS		20110429
2 7	stielperc 64972				20110429
83184 941102 FUMP SENAGE #2 30			FLUES 20	20110503	20110503
941102 FUMP_SEMAGE #2 30	SIDE OF PUMP.REQ.BY W. HOOKS 69701			20110503	20110503
941000 FACILITY, DUNDALK PUMPING 25	{office } stielperc 64972				******

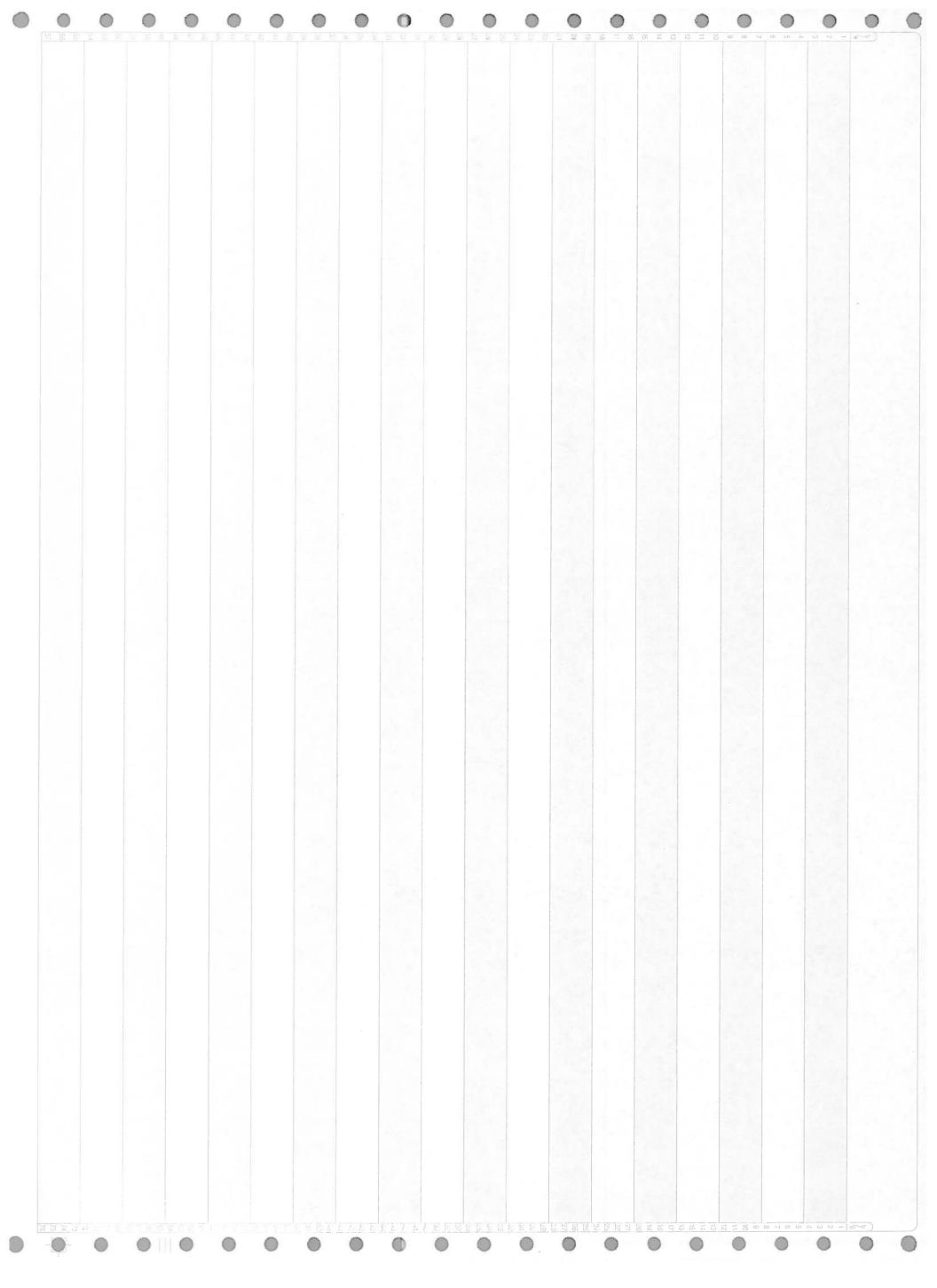
16:91:14:17577	Completed/Issued M/U	Report for Apr. 1, '11 - June 30, '11		PAGE 2
	Pumping Station	ion		
		HO Full Problem	Craft UII	MI Sht-dun
Co. UZD No. Area Loc. Number	Machine Machine Number Description	5 Prty Code		Te SUe
11 PUNPING ST DUNDAL 11.83205		4	0	20110517
11. 83222	941000 FACILITY DUNDALK FUNPING	25 4 Streiper 64972 30 4 in uall stiplners 64872	CS INSPS 20110524	20110523
		Δ.	ELEC	20110526
11. 83226		4 RER. BY J.		20110526
	183100 SAITCH, MED VOLT - FOR #1	25 4 requester r slauton 6-9752	KLS ELEC	20110526
11. 83230		.4.	00	20110526
11. 83645		4	ELCPS	20110602
		4 stielper 64972	ELCPS	20110609
11. 83680	940031 UKIT,RADAR #2,BARSCREEN	3U 4 Stielperc 64972 25 4 REQ BY PRIM RAMBISSOUN 6-9745	PR INSPS 20110614	20110613
Location DUNDAL.				
EASTER 11.81796 11.82160	911000 FACILITY, EASTERN AVENUE	30 4 screen room door stielper -64972		20101215
11. 82164		4 % 0%	WH BLDG 20110415	20110121
11. 82165		30 Sullivan 6-4977	PENG	20110124
11. 82470			CS BLD6 20110415	20110215
11.82476	2 915417 OTR HONDITUS HUTT OND CHT	3D 4 stielperc 64972	ELCPS	20110217
11. 82509	911000	. 4	CS MCHFB 20110506	20110307
	8	4		20110315
11. 82890 11. 82898	911000 FACILITY EASTERN AVENUE	30 4 stielperc 64972 30 4 maint shop stielmerc 64972	CS BLDG 20110420	20110324
11.82901		4 REQ BY K BAKTON JR	JASPS	20110329
11. 82905	911000	8	CS HA 20110405	20110405
11. 82906	1 915417 AIR HANDLING UNIT AND CHI	25 4 INVESTIGATE AND SCHEDULE MINIENZZING OF ALL SYSTEMS	CS HO	20110405
11. 83156	912406	Д.	CS ELCP'S	2011.041.4
11. 83157		4		20110414
11. 83158	918801 RUTU-RUUTER 1"X100'(STURE	30 4 stielperc 64972	CS MCHPS 20110419	20110415
11. 83163	910029 BUBBLETROL	یا م	RBJ MCHFB 20110505	20110420
11.83166		30 Sullivan	INSPS	20110420
11. 83167	910006 FLOW INDICATING RECURDER/	30 4 stielper64972	S INSPS	20110421
11. 83173	8	쁑	US ELCPS	20110428
11. 83183		4	CS ELEC	20110502
11.83185			DPSEK	20110503
11, 83188		ه د	MCHFB	20110504
11 83195	916520 PARTI CIRCUIT REFARER	30 9 Stielpero 647/2	US ELCPS 20110512	20110505
11. 83197		4	MCHPS	20110509
11.83197		4	MECH	20110509
11.83198			ELCPS	20110510

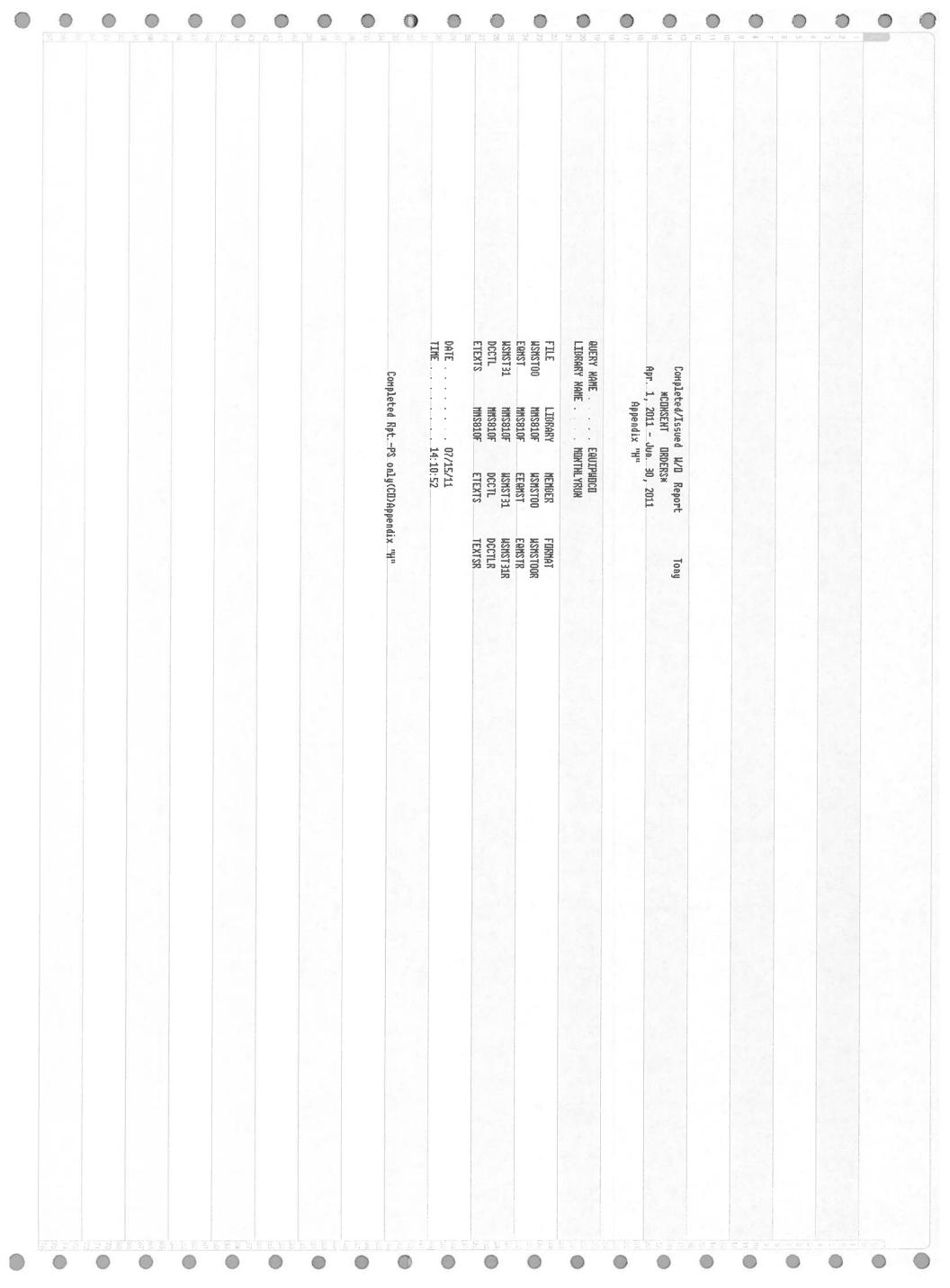
Locations: BRKLYN DUNDAL EASTER as of 07/15/11 Craft HO
Hackine Hackine Hackine Hackine Hackine Sts Prty Description Full Problem Req. Code Chplt Issue Area Loc. Number Number Description Code Code Date
N/T
PUMPING ST EASTER 11.83199 910029 BUBBLETROL 30 4 REQ BY R BARTON JR 11.83202 911000 FACILITY, EASTERN AVENUE 25 3D SULLivan 6-4972 US ELCPS 11.83206 910029 BUBBLETROL 30 4 REQ BY R BARTON JR 11.83207 911000 FACILITY, EASTERN AVENUE 25 4 see chris stielper 64972 CS BLDG 11.83210 911000 FACILITY, EASTERN AVENUE 30 4 stielper 64972 11.83216 911000 FACILITY, EASTERN AVENUE 30 4 stielper 64972 CS ELCPS 20110520 11.83223 919021 MOMER, RIDING, GRAVELY (DN T 30 4 stielper-64972 CS MCHS 20110526 11.83224 919001 MOMER, PUSH (20" UULCAN) 30 4 STIELPERC 64982 CS MCHS 20110525 CS MCHS 2011
STIELPERC 64982 91000 FACILITY, EASTERN AVENUE 25 3D SUllivan 6-4972 US ELCPS 83206 910029 RUBRILETROL 30 4 REQ BY R BARTON JR RBJ BLDG 20110620 83207 911000 FACILITY, EASTERN AVENUE 25 4 see chris stielper 64972 CS BLDG 20110526 83210 911000 FACILITY, EASTERN AVENUE 30 4 stielperc 64972 R3210 911000 FACILITY, EASTERN AVENUE 30 4 circut stielper 64972 CS ELCPS 20110526 R3210 911000 FACILITY, EASTERN AVENUE 30 4 circut stielperc 64972 R3210 919021 MGNER, RIDING, GRAVELY (ON T 30 4 stielperc-64972 R3223 919021 MGNER, FUSH (20" UNLCAN) 30 4 stielperc-64972 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 MGNER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 R3224 919001 81900
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911000 FACILITY, EASTERN AVENUE 30 4 circut stielper 64972 919021 HOWER, RIDING, GRAVELY(ON T 30 4 stielperc-64972 919021 HOWER, RIDING, GRAVELY(ON T 30 4 stielperc-64972 919021 HOWER, PUSH (20" UVLCAN) 30 4 STIELPERC 64982 919001 HOWER, PUSH (20" UVLCAN) 30 4 STIELPERC 64982 919001 HOWER, PUSH (20" UVLCAN) 30 4 STIELPERC 64982 919001 TETRMFER MEDGE 16" DRI FOC 25 4 STIELPERC 64982
919021 MUMER,RIDING,GRAVELY(UN T 30 4 stielperc-64972 CS MCHPS 20110526 919021 MUMER,RIDING,GRAVELY(UN T 30 4 stielperc-64972 CS MCHPS 20110526 919001 MUMER,PUSH (20" VULCAN) 30 4 STIELPERC 64982 CS MCHPS 20110525 919001 MUMER,PUSH (20" VULCAN) 30 4 STIELPERC 64982 CS MCHPS 20110525
919001 NOMER, PUSH (20" VULCAN) 30 4 STIELPERC 64982 919001 NOMER, PUSH (20" VULCAN) 30 4 STIELPERC 64982 919001 NOMER, PUSH (20" VULCAN) 30 4 STIELPERC 64982 919001 TETMMER MEDGE 16" DE 6 0+1010525
919001 MEMER, PUSH (20" UNLCAN) 30 4 STIELPERC 64982 CS MECH 20110525
918941 TRIMMER MEDCE 14" DRI EDG 25 A .+: Clara 44072
210021 MENICO TATALO AND TO A STIELDED 943/2
STIELPETC 69972 CS MCHPS 20110602
83657 911000 FOCTITTY FOCTERN OUTSUIF 30 4 COTO TIT OTTICE SCIEDET 64772
911000 FACILITY EASTERN AVENUE 25 4 Stielberg 65194
911000 FACILITY EASTERN AVENUE 25 4 stielperc 6 4972
915201 PUMP, RECIRC. \$1(BUILER) 30 4 stielperc 64972 CS ELCPS 20110614
25 4 stielper 64972 CS BLDG
83671 916037 LIGHT,EMERGENCY \$1(GENERA 25 4 requester r slauton 6-9752
2 915413 HEATER, UNIT #1 25 3D in ist flr office stilper 64977
30 3D in ist flr office stilper 64972 CS HA 20110627
911000 FACILITY, EASTERN AVENUE 25 4
Location EASTER:
30 4 see c stielper 64972 CS OPSEK 20110517
971000 FACTITTY WINES FOLIS ON A STIRL STRUCTURE STRUCTU
924101 SCREEN BAR #1(FRUNT CLEAN
921000 FACILITY, JONES FALLS 30 4 gates stielperc 64972 CS MCHPS 20110405
7MOTO 25 3D cstielper 64972 CS ELCPS
921000 FACILITY, JUNES FALLS 30 4 holders 6 4972 stielper CSe BLDG 20110606
stielper 64972 CS MCHPS 20110426
83179 921000 FACILITY JUNES FALLS 30 4 stielperc 64972
.83182 925102 CUMPRESSUR, \$2 BURBLER AIR 30 4 cstielper 64972 CS INSPS 20110503
920016 HIPATTUR, BAR SCREEN GASCHE 30 4 stielperc 64972 CS INSPS
30 4 stielper 64972 CS MCHPS 20110523
926301 GENERATOR EMERGENCY SET 30 4 leak stielner 64977
.83214 926731 DUMPSTER, JF2001(SCREEN RM 30 4 stielperc 64972 CS NCHFR 20110523
927105 FAN, FRU-2 EXHAUST(ELECTRI 30 4 stielperc 64972 CS ELCPS 20110523
stielper 64972 CS ELCPS 20110523

07/15/11 14:16:41	/O Report for Apr. 1, '11 - June 30, ' Locations: BRKLYN DUNDAL EASTER				PAGE 4
	n JF LOCPO MCST RUAD WST		7	1	
Area Loc. Number	s Prty Code	Req.	Code	Cuplt Date	Issue Class
FUNPING ST JF 11.83237 11.83338	TRUCK, ELECTRIC PALLET 25 4 PUMP, SENAGE #3 30 4	SS	ELCPS	20110601	20110531 20110601
11. 83339 11. 83647	924102 SCREEN, GAR #2(FRONT CLEAN 30 4 stielperc 64972 921000 FACILITY, JUNES FALLS 30 4 stielper/64972	ននន	MECH	20110621	20110601 20110606
11. 83651	926301 GENERATOR, EMERGENCY SET 30 4 REQ. BY J. HARDCK 6-9748 920003 RECORDER/TOTALIZER, (NORTH 25 4 REQ BY C. STIELPER PER RBJ	SS JCX	ELCPS	20110603	20110607
11. 83655 11. 83664	=		LCPS	20110609	20110609
11. 83668 11. 83683	4 stielper 64972 4 repairs by TEAM requester r slav	RES CS	BLD6 ELCPS		20110616 20110629
Location JF: COUNT 31					
LDCPO 11. 82481 11. 82900 11. 82908	987901 ALARH,COMBUSTIBLE GAS 30 4 REQ BY R BARTON JR 985017 MBNITOR,MULTI-GAS SYSTEM 30 4 REQ BY R BARTON JR 987601 GENERATOR,EMERGENCY SET 25 4 stielperc 64972		INSPS INSPS	20110426 20110427	20110222 20110329 2011040K
11. 83165 11. 83187 11. 83189	FACILITY,LOCUST POINT 30 30 FACILITY,LOCUST POINT 30 4 FAX,WET WELL 25 4			20110503 20110509	20110420 20110504 20110504
Location LOCFO: COUNT 6					
MCST 11.83191 11.83193	975101 PUMP,SEWAGE #1 30 3D stielperc 64972 975002 FLDW INDICATING RECORDER/ 25 4 stielperc 64972	22	MCHPS	20110505	20110505
11.83225	FACILITY, MCCOMAS 30 4	-		20110531	20110526
COUNT 3					
QUAD 11.82907	GENERATOR, EMERGENCY SET 30 4			20110405	20110405
11. 82910 11. 83194 11. 83217	18Z1UU SHIICH,NALM 25 4 requester r slagton 6-9752 933101 SCREEN,DAR 25 4 REQ.BY W.HOOKS 69701 931000 FACILITY QUAD AVENUE 30 4 stiplners 64979	공 포 공	HCHPS FLCPS	20110525	20110407 20110506 20110523
11.83220 11.83221	30 25 4			20110524	20110523
. 83238	2 933201 MUTUR,BAR SCREEN 25 3D stielperc 64972		EL CPS		20110601
	933201 NOTOK,BAR SCREEN 30 3D ot ticket 936103 FAN,EF-3 NAIN FOOR EXHAUS 30 4 stielperc		MECH	20110531 20110603	20110614 20110602
11.83644 Location_QUAD:	٩			20110603	20110602
CHON! TT		3			

07/15/11 14:16:41	Completed/Issued W/O CM's & MOD's Pumping Station	Rep	June 30, '11 HOCOMPSSAL L_EASTER as of 07/15/11 ST RUAD WSTPT		75
Co. Humber	Machine Machine Number Description	HO Full Problem Sts Prty Description Code	Req.	Craft NO Code Cuplt	MD Shtdwn Issue Class Date
11 PUMPING ST HSTPT 11.83646	971000 Fr	25 4 stielper 64972	23	MCHFB	20110603
Location_MSTPT:					
	Cost Center PUNPING ST Work Orders				
	rs for 11:				
16 COUNT 165					
19 20 21					
22 23 24					
25 26 27					
22 28 30					
33 33					
39 35					
33					
42 41					
45					
51 6 40					
9 9 8					
2 81 85					

No. Area Loc. FINAL CRUNT 11		15/11 14:16:41
FINAL TUTALS COUNT 165 REPORT REPOR	0 4 0	Area Loc.
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				No records in query report	Co. No. Area	07/15/11 14:10:52
				query report	H/O Loc. Number	0:52
				364 365 365	Machine	
					Machine Description	Completed/Issued_H/ *Consent Orders* Co. 11 and 80
					Short problem Description	Completed/Issued_W/O_Report for_Apr1,_11 - Jun30,_'11 *Consent Orders* Tony Co. 11 and 80 Appendix "H"
					WII Craft Sts Frty Req. Code Code By	, '11 EQUIPHDCO as of 07/15/11 14:10:52
					WIII Caplt	
					WII Consent Issue Urder Date	146E

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							Issued	DATE .	WSMSTOO WSMST31	LIBRARY NAME	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 5 5						
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							Pump	07/15/11 14: 19: 19		MONTHLYRUN								
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9	Apr. 01, 11	TIONS - P	,'11 ** only **	BRKLYN DUNDAL		ASTER	JE** as of 14:19:19 T ** on 07/15/11	PAGE 1
st Cos	rent WO	WO TYP	M		WTK		hart pr	
n = = = = = = = = = = = = = = = = = = =	WO Suf	ν (1)	Issue Date	Cmplt Date	Typ	ро	scription	
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	11 82961		011040				PECT AND REPAI	
	962		011040	11050	ם ב	ר ס		
	11.82963	30 P	<u> </u>	01	T T	200	-1 -	
	11.82964		011040	011051	PM	INSES	NSPECT	
	11.82965		011040	011051	PM	INSPS	NSPEC	
	11.82966		<u> </u>	011051	PM	U)	INSPECTION	
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	11 02040		-	011051	3		INSPECTION	
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WE WILLIAM DUNDAL SASTER J*** 35.07.11 WE SASTER J*** J*** WE SASTER J**
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30.7.11 ***BRKLYN DNUDAL EASTER JF** as 6 14:19:1 PM only ***LOCPD MCST GNAD WSTPT ** on 07/15/11 Issue Cmplt Typ Code Description Date Date Date Folio630 PM PM TEST AND LUBRICATE POLID601 20110630 PM PM TEST AND LUBRICATE POLID601 20110630 PM PM TEST AND LUBRICATE POLID601 20110630 PM PM TEST AND LUBRICATE POLIO601 20110630 PM PM TEST AND LUBRICATE POLID601 20110630 PM PM TEST TEST AND LUBRICATE POLID601 20110630 PM PM TEST TEST TEST TEST TEST TEST TEST TES
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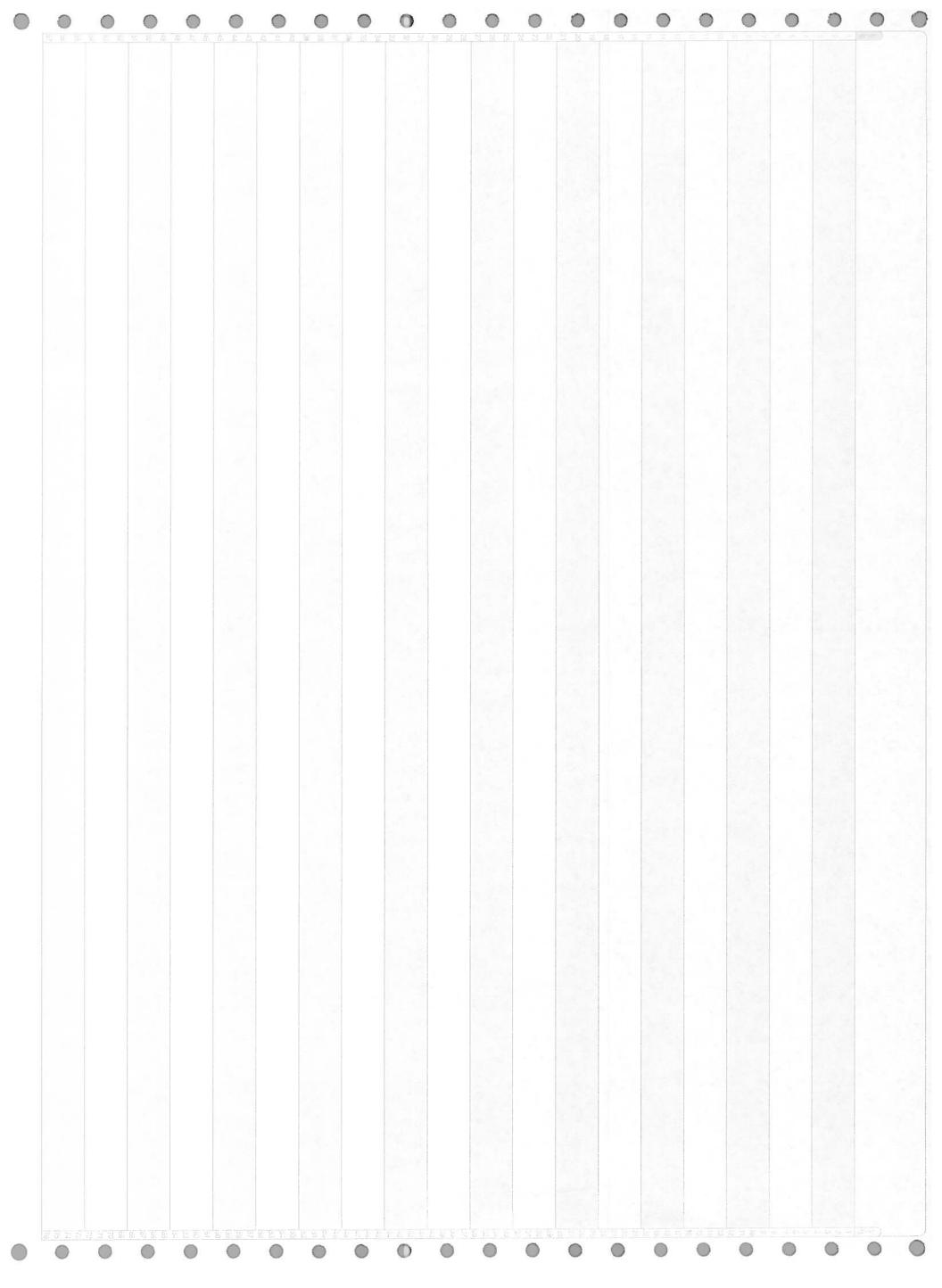
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			Full Problem	6	Craft	5	un Sht-dun
Area Loc. Runber	Machine Machine Number Description	Sts Prty D Code		Req. C	Code	Cmplt Date	90
PUMPING ST BRKLYN 11.80367	7 951000 FACILITY, BROOKLYN PUNPING	30 2			ELCPS 20	20110607	20100730
11.81804	955101	30 30	side bldstielper 64972		96	20110411	20101213
11.82903	951000	30	y charging system and make sure truck	5	PS.	20110405	20110330
	956101 GENERATOR, EMERGENCY SET	38 4 39				20110415	20110413
11.83174	951000	25 30	11ivan 6-4972			07%UTT	20110428
11.83201	956101	30 30 30 30 A	972			20110509	20110506
11. 83201		SET 30 4	and replace fuel filters and daskets requester r slayto		-	20110511	20110510
11. 83203 11. 83213	956101	30 4	yton 6-9752		ELCPS 20	20110517	20110513
	951000 FACTLITY REMURLYR TRUBETAGE	25			GRDS		20110519
11. 83232	956101	GE 06 48	Lperc 64972			20110527	20110527
11. 83233	952101	(H 25 4	stielpero 64972		ELCPS 20	20110527	20110527
11. 83234 11. 83234	2 952000	25. 4	64972		BLDG		20110531
11. 83235	<u>-</u> ,	30 4	stielpero 64972			20110531	20110531
11.83649	951202	30 4	64973	CS EL	ELCPS 20	20110607	20110606
11.83653	951000 FACILITY BROOKLYN PUMPING	30 4	Stielperc 64972			20110606	20110606
11.83659	951203	30 30	64972		ELCPS 20:	20110606	20110697
11. 83662	951000	30	unit electric room3 stielper 64972			20110614	20110613
11. 83666		250 4				20110617	20110614
11. 83666	2 955304	3 1	stielpero 64972		ELCPS 20.	20110617	20110614
11.83667	951000	25 4	64972			TOOT	20110614
11. 83675	951000	25 4	64972		MCHFB		20110622
11. 83676	2 +	30 2 6					20110623
11. 83677		\$ 2 25 2			ELCPS ZU	77901107	20110623
11 83678		25	BY J. NARDCK 6-9748	26.	ELCPS		20110623
11. 83682	951000 FACILITY BROOKLYN PUMPING	25 30	SEE JOE PARKER IN NCHFB HEED TO TAKE A REPLACEMENT DUMPSTER C		ELCPS		20110623 20110629
Location BRKLYN:							
DUNDAL 11. 82860	2 947504 FAN, PRV-4 HET HELL EXHAUS	30 4	stielperc 64972		HCUD DOI	10407	
11. 82867	947521	30 4				20110406	20110314
11, 82904	947504	S 25 30	6-4972	US EL		i	20110401
11 83175		1SU 25 4			ELCPS		20110406
11.831/5		25	JR		MCHPS		20110429
11 83178	WINDLE A POWER ALL STOCK AND STOCK A	25			ELCPS		20110429
11. 83184		30 4	72			20110428	20110429
11.83184	PUMP, SEMAGE	30 4 SI	SIDE OF PUMP.REQ.BY W.HOOKS 69701		Ų,	2011.0503	20110503
11.83190	941000 FACILITY, DUNDALK PUMPING	25 4	elperc 64972			10101	20110505

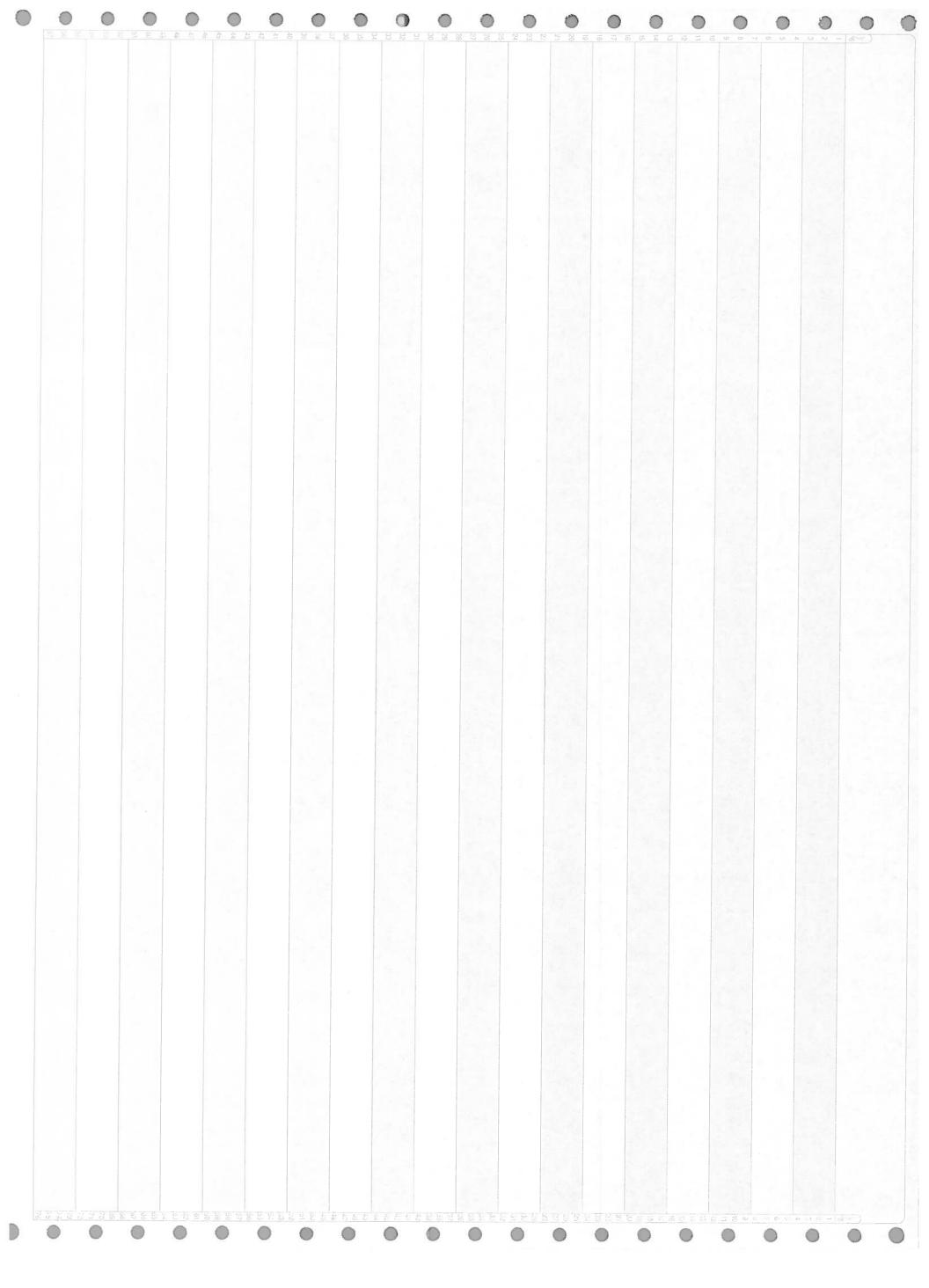
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	Punping Sta	tion	JF LUCPU MCST QUAD HST				
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Минрет	e De	Sts	rty Description Req.			te	
941000		8 8	trinned back for electrical work requester r slayton 6-9752	ERDS	20110609	20110517	
941000		2 8	in well stielperc 64872	INSP		20110523	
947521		30	REQ. BY J. NARDCK 6-9748	ELEC		20110526	
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183100	SHITCH MED VOLT -	27	requester r slauton 6-9752	I CH		20110526	
183101	SHITCH, MED VOLT -	25	requester r slayton 6-9752	ELEC ELEC		20110526	
797507		20	stielper 64072	El CP		20110602	
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940031) 	STIELPETC 64972	INSP.		20110613	
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911000		8 8	screen roon door stielper -64972	BLD6	20110415	20101215	
		8 8	K DN RAKE. REQ. BY M HOOKS 69701	BLDG	20110415	20110121	
		#	Sticles (A072	PENG	20110628	20110124	
		8	stielperc 64972 CS	ELCPS		20110215	And the second of the second o
		# #	stielperc 64972 CS	PENG		20110301	
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841.4 911000		8 8	stielperc 64972 CS	BLDG	20110420	20110324	
910029		8	REQ BY R BARTON JR	THEFT		20110328	
		8	see chris stielper 64972	HA		20110405	
		7 1	INVESTIGATE AND SCHEDULE MINIERIZING OF ALL SYSTEMS CS	PENG		20110405	
		23 1	stielpero 64972 CS	ELCPS		20110405	
912206		8 8	stielper 64972 CS	24	20110419	20110414	
919021	MEMER RIDING CROUT YOUN T) 	Stilling 6-4972 CS	MCHPS	20110419	20110415	100 Mark 100
910029	BUBBLETROL	1 8	req by R Barton Jr US	MCHER	20110505	20110419	
910018	ATMOSPHERE ANALYZER	8 8	Sullivan 6-4972	INSPS	20110421	20110420	
5255	PUMP 4"(PUNTABLE) DIESEL	8 8	REQ BY C. STIELPER CS	INSPS	20110421	20110421	
911000	FACILITY, EASTERN AVENUE	25	order(calls can't be recieved or dialed). Sullivan 6-4972 US	FLCPS	97E0TT07	20110421	
911000	FACILITY FASTERN AVENUE	3 23	line connected (410-244-0763) stielper 64972 CS	ELEC		20110502	
911000	FACILITY EASTERN AVENUE	2 2	stielpers 6077	DPSEK	20110506	20110503	
911000	FACILITY EASTERN AVENUE	8	stielperc 64972	TI COS	20110513	20110504	
91,6520	PANEL CIRCUIT BREAKER	#	out. Sullivan 6-4972	FLCPS	20110506	20110505	
918952	SAM_CHAIN	30	STIELPERC 64972 CS	SHOW FERSON	20110509	20110500	
918952	SAU, CHAIN	30	STIELPERC 64972 CS		20110509	20110509	
910029	BUBBLETROL	8	JR REJ	ELCPS	20110519	20110510	
	### Hachi ber Number ###################################	Machine Machine Number Descripti 941000 FACILITY,DU 940030 UNIT,RADAR 941000 FACILITY,DU 947521 FAN,SAF-1 S 947521 FAN,SAF-1 S 947521 FAN,SAF-1 S 941000 FACILITY,DU 183100 SUITCH,MED 183101 SUITCH,MED 184101 FACILITY,EA 911000 FACILITY,EA	PUMPING STERN AVENUE 30 911000 FACILITY, EASTERN AVENUE 30 947521 FAM, SAF-1 SUPPLY AIRCUET 30 947520 FAM, FF-4 EXHAUST (RDDFY 25 947520 FACILITY, FASTERN AVENUE 30 941000 FACILITY, FASTERN AVENUE 25 941000 FACILITY, FASTERN AVENUE 25 941000 FACILITY, FASTERN AVENUE 30 941000 FAC	CONSIDER AND SECRET SINGLANDS AND SECRET SAME AND SECRET SAME SECR	Compared Lissed Mul Report for Apr. 1, '11 - June 30, '11 MICHINESSM COR'S & MINC's Coactions: DRRY UNDON EXELT as 6 07/25/11		Problem Prob

Description Restrict Problet Rul FACILITY, EASTERN AVENUE 25 30 RUBGLETRUL FACILITY, EASTERN AVENUE 26 30 FACILITY, EASTERN AVENUE 27 40 FACILITY FASTERN AVENUE 30 4 FACILITY FASTERN AVENUE 30 4 MUMER, RIDING, GRAVELY (UN T 30 MUMER, PUSH (20" VULCAN) 30 4 MUMER, RIDING, GRAVELY (UN T 30 MUMER, RIDING, GRAVELY (UN T 30 MUMER, PUSH (20" VULCAN) 30 4 MUMER, RIDING, GRAVELY (UN T 30 MUMER, PUSH (20" VULCAN) 30 4 MUMER, RIDING, GRAVELY (UN T 30 FACILITY, FASTERN AVENUE 25 4 FACILITY, FASTERN AVENUE 26 4 PUMP, RECIRC. \$1 (BUILER) 30 4 FACILITY, JOHRS FALLS 30 4 FACILITY JOHRS FALLS 30					CH's & MOD's Pumping Station	TOR		Locations: BRKLYN DUNDAL EASTER as	as of 07/15/11 PT			
Regillar Lot. No. Realize Recolling St. Prej Description						E		Full Problem	Craft		3	
Reference of Easter 183199 201002 10001/FR011111, SATERN WEIGHE 25 4 see not a stablyer 64972 25 26 201002 25 4 see not a stablyer 64972 25 26 26 27 27 27 27 27 27	Area		N/II Number	Machine Number			Prty Code	Description			Hplt	פו
11.8226 91.1000 FREALTHY_RANTERN MAPNE 24 See chris stillper 66772 10. 10.1052 11. 10.2052					BURBLETROL	30	4	REQ BY R BARTON JR				110510
1.83207 11000 FACILITY_LISTERN MARNE 24 4 4 5 5 5 5 5 5 5			11. 83202		FACILITY, EASTERN AVENUE	3 1%		Sullivan 6-4972				10513
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	310		30 F	n n	11040	011042	0 - X :	ם ב ב	ECT AND LUBRICA

	Apr. 01	STATIONS	une 30	only **	DCPO MC	ST QUAD	EASTER AD WSTP	UF** as_of 14:19:19 PT ** on 07/15/11
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		3		011040	01104	υ - Ξ Ξ		NSPECTION
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		Apr. 01	STATIONS	ne 3	only **L	RKLYN DUNDAL	UAD	ASTER	JE** as of 14:19:19 T ** on 07/15/11
		Parent	M	TYP	EW		Wrk	Craft	Short_problem
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T CONTING	10	лυ	יוני		20110601		ם דים ב ב	יי ט ב	HECK CARIDOS COMPONENTS AND LUBRICAT
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		ω i 4 i	וטו		11060		ਹ : ਤ	7 T	HECK VARIOUS COMPONENTS AND LUBRICAT
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		11.83467	וו		1106		Z	Z Z	TAND
		11.83468	N		11060		PX	P _M	TAND
		11.83469	N		1106		PM	PM	AND
		11.83470	N		1106		PM	PM	T AND
		11.83471	N.		11060		PM	잼	AND
page ()		11.83472	N		11060		Md	PM	AND
		11.83474	25		1106		PM	PM	
		11.83475	וטו		11060		PM	PM	AND
		11.83476	20		11060			NO.	VARIOUS
		11.83476	13		060			PM	CHECK VARIOUS COMPONENTS
		11.83477	N.		11060	_	PM	PX	VARIOUS
		11.83478	מ		11060		PM	DM	VARIOUS
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		11.83480	เก		1106		PM	PM	VARIOUS
		11.83480	N		1106		P K	M	VARIOUS
		11.83481	25		11060			P K	VARIOUS COMPONENTS
		11.83482	201		1106		PM	PM	LAND CHECK VARIOUS
		11.83483	23		11060		PM	PM	T AND CHECK
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		11.83489	ט		1106		T :	U :	K CATE AND
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	or all below ellowed and class remove if the filtranseure has revenues.	11.000478	א נ		0110		3	3 3	E AND
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		349	201		1106		PM	P M	VAR
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		PUMPING	STATIO	ONS -	30, '11 PM only	* *	**LOCPO MCST G	Ž	ASTER	JE** as of 14:19:19 T ** on 07/15/11	
o Cost	0	arent	E O	<u>.</u>	TYPE	20	EO.	E	1	7 4	
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				N	20	106		T :	P :	TION	
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	jest	1.83504		יו ני ט ת		0 0		υ τ 3 3	υ τ 3 3	NODECT NORMAL OPERAT	
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	_	1.83510		וט עו		10601		TO I	PM	CHECK OPERATION AND LUBRICATE	
	Total W	W/O's for 171	Locati	on E	ASTER:						
	JF 1			30	נו	104	011041	PM	NSP	LEAN/INSPECT/CALIBRAT	
		200 200 200 200 200		ວິດ		10407	011041	Z Z	ס ו	LEAN/INSPECT/CALIBRA	
		293		30	P 201	10407	1104	3 3	INSPS	PECTION PECTION	
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		1 83017		ر م ر	201	10408	1042	T X	1 71		
		1.83041		30		10408	\vdash	ਹ - ਤ :	ELCPS	ECT AND LUBRICAT	
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		1 83043		3 0	P 201	10408	1042	O O	ELCPS	AND LUBRICAT	
		1.83045		30		10408	1042	U 7	El CPS	AND LUBRICAT	
	ju-t	1.83046		30		10408	-	Z :	ELCPS	AND LUBRICAT	
		1.83047		30		10408	1042	T M	ELCPS	AND LUBRICAT	
		1.83048		30		10408	1042	D X	ELCPS	AND LUBRICAT	
		1 83049		3 G	P 201	10408	20110421	ס נ צ	ELCPS	AND LUBRICA	
	<u>_</u>	1.83051		30				р З	ELCPS	AND LUBRICAT	
		1.83052		30			20110504	P M	ELCPS	AND LUBRICAT	
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		327		30	וניו	601	20110624	ਹ ਤ	INSPS	CLEAN/INSPECT/CALIBRATE	

	PUMPING	ATIONS	P	only **LO	OCPO MCST Q	QUAD	HSTP	T ** on 07/15/11	
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	Number		ı	Date	CT T	- - - -	5	- H	
PUMPING ST JF	11.83271	យួ		20110601	011062		U	LEAN/INSPECT/CAL	
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	11.83279	ယ ပ		20110601	20110623	U Z Z		CLEAN AND INSPECT	
	11.83340	N		01106		P Y	HA	NOIT	
	11.03353	ຸນເມ		110	20110622	O G	20	1 1	
	11.83355	ယ္ ပ		20110601	011062	D T	CP	T AND LUBRICA	
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	11.83357	រ ឩ		0110	240	0 TO	ELCPS	T_AND_LUBRICA	
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	11.83361	υw		4 1-4	011062	O C	ELCPS	CHECK VARIOUS UNITS	
	11.83363	ພະ		20110601	20110624	0 T	מים ביים	VARIOUS	
	11.83364	ω i		1106	011062	D N	CP	VARIOUS	
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	1.3	ω		1106	01	PM	MECH	ATION AND CHECKS	langing community of community
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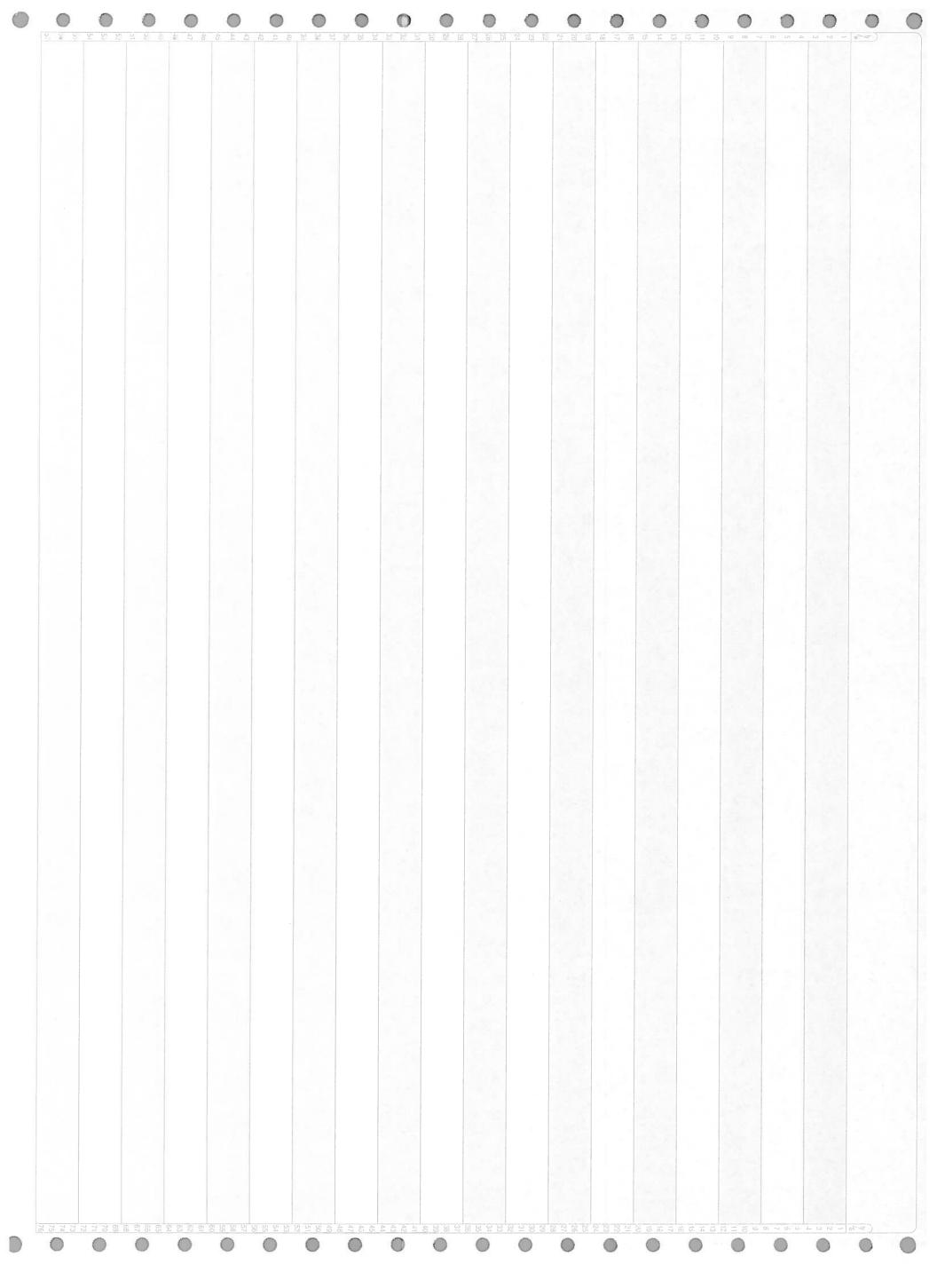
		PUMP ING	STATIONS	L De	PM on	ly **	OCPO MCST G	QUAD	AD WSTP	JE** as of 14:19:19 T ** on 07/15/11	
in	Cost	rent	MO MO		YPE	WO	£0	Σ T K	Craft	Short problem	
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		. 8352		0.0		011060	00	면 T	3 3	LUBRICATE GEAR CASE (18 MONTHS	THS)
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	CUUN										
	LOCPO	298				011040	011042	D X	73	LEAN/INSPECT/CAL	
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		~0				011	11042	PM	INSPS	NSPECTION	
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		747					11042	3	NSE	INSPECT AND CLEAN	
		11 830//					1104	ם כ			
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		11. 83248				1		D M	BLDG	IR/PLUMBIN	
		11. 83249				11	11062	PM	BLDG	REPAIR	
		11.83325				11060	011	o u	INSPS	./CAL	
		11.83327				0110601	11060	υ τ 3 3	INSPS	CLEAN/INSPECT/CALIBRATE	
		11.83329				1	20110606	2	INSPS	7080	
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		11 83410				11060		σ τ Σ Σ	ELCPS	BATTERIES&	
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		11.83414						U Z	EL CPS	T AND I HER	
		11.83415				20110601	Just 1	0 : Z	ELCPS		
		11.83421				11060	00	MG	ELCES	AND LUBE	
		11.83422				110	110	U N	CP	AND LUBE	
		11.83423	١.			11	<u> </u>	Md	CP	DPERATING CONDIT	ATTERY
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		11 03425				- pu	20110607	U Z	G	PERATING CONDIT	7
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		11. 83633				11		υ Σ	T .	CHECK VARIOUS COMPONENTS AND	ד סמוו
		11.83634				11		Ū 3	י טר ב	CTION	
		11.83635				11		PM	PM		
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		11.83637				20110601		T Z	M	TING AND LUBRI	
		11.83638				0110601		P M	P K	STING AND LUBRICAT	
		363				1106		T Z	E E	ESTING AND LUBRICAT	
		9				1106		M	PM	TING AND LUBRICAT	
		364				1106		M	PM	SPECT AND LUBRICATE	

		PUMPING	STATI	DNS -	PM 30	nly	**LOCPO MCST Q	DAL QUA	EASTER ND WSTPT	JF** as a ** on 07/1	f 14:19:19 5/11	
Center	Cost	Number Number	Suf	848 0M	TYPE	Issue Data	Cmp1t	N T W	Code	Short problem Description		
PUMPING S	ST LOCPO	11.83642		in in	ס	20110601		M	M	INSPECT AND LUBRIC	CATE	
	Total COUNT	W/O's for	Locati	on	LOCPO:							
	MCST	11.82981		သူဝ	U	20110407	011060	<u>0</u>	NSP	AND CALI	RATE	
		11.82982		30	ס כ	011	A	D T	INSPS	AND CALI	BRATE	
		11 83246		0 0 0	ד ס	2011040/	1060	T T	E DO	FAND CALI	IBRATE	
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		332		30	ס ו	20110601	20110622	고	INSPS	T AND CAL	RATE	
		11 83324		0 0 0 0	υτ	20110601		ט ט	INSPS	AND CAL	RATE	
		11.83408		N U	ט י	20110601	1	면 목	ELEC	BATTERIE	S& LIGHT	
		11.83409		ט ני	ס נ	11060		0 TO	ELCPS	ISNI DNA		
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		11.83622		30	י ס	11060	20110616	о :		AND	CATI	
		11.83623		ω Θ Θ	ס ס	20110601	1061	ס ט צ צ	O O	AND	UBRICATE	
		11.83624		30	י ס	1	1061	T :	3	ILTER,	PECTION	
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		11.83626		ი ი ი	U U	20110601	20110616	0 0 3 3	ט ט צ צ	TTON O	HANGESYSTEM CHECK	
		362		30	י ס	11060	1061	P X	3	무		
		11.83630		30	ד ס	20110601	20110616	TO TO	T 3	INSPECT AND LUBRICATE	CATE	
	Total COUNT	W/O's for	Locati	07	MCST:							
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		11.82939		ယ မ	ט ט	011040 011040	1041	U U		CLEAN/INSPECT/CAL	IBRATE DE	
		11.82940		3 0	סר כ		104	O C	INSPS	NSPECT	IBRATE/GAS	
		11. 82942		30	ט		1041	7 Z	INSPS	CLEAN/INSPECT/CAL	IBRAT	
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APPENDIX 5

SUMMARY OF REPORTED OVERFLOWS

City of Baltimore Activity at Sanitary Sewer Overflow Structures For Calendar Quarter Ending June 30, 2011

	SSO No.67	
<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
4/16/2011	Flow Meter in Place	1.30
	SSO No. 72	
<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
4/16 – 4/17/2011	Flow Meter in Place	1.30
	SSO No. 132	
<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
	None Reported this Quarter	
	SSO No. 134	
<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
4/16/2011	Flow Meter in Place	1.15



City of Baltimore Activity at Sanitary Sewer Overflow Structures For Calendar Quarter Ending June 30, 2011

	SSO No. 135	
<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
	None Reported this Quarter	
	SSO No. 137	
<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
4/16/2011	Flow Meter in Place	1.06
	SSO No. 139	
<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
	None Reported this Quarter	



City of Baltimore Activity at Sanitary Sewer Overflow Structures For Calendar Quarter Ending June 30, 2011

	Pumping S	Station Overflows	
Pumping Station		Volume Loss	
	<u>Date</u>	<u>(gal)</u>	Rainfall (in)
	None Repo	orted this Quarter	
Wo	oto Motor Tro	atmost Dlant Overfley	
vva	ste vvater i re	eatment Plant Overflow	S
<u>WWTP</u>	<u>Date</u>	Volume Loss (gal)	Rainfall (in)
Patapsco	04/16/11	20,000	1.23



Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
4/1/2011	360	Rags, Roots, Grease	0.15	Gwynns Falls	Franklintown Rd & Morris Rd	21216
4/1/2011	250	Grease	0.15	Inner Harbor	402 Key Hwy	21230
4/1/2011	Evidence of Overflow	Rags & Trash	0.15	Northwest Harbor	1621 N Chapel St	21213
4/1/2011	120	Roots & Grease	0.15	Jones Falls	Keswick Rd & Park Ln	21210
4/3/2011	426	Pipe Break	0.06	Jones Falls	400 W Coldspring Ln	21210
4/3/2011	120	Pipe Break & Sand, Gravel, Rocks	0.06	Jones Falls	400 W Coldspring Ln	21210
4/3/2011	270	Rags & Grease	0.06	Jones Falls	4000 Edgewood Rd	21215
4/4/2011	660	Rags, Grease, Debris	0.00	Herring Run	5609 Sinclair Ln	21206
4/4/2011	150	Roots & Debris	0.00	Jones Falls	103 Park Ln	21210
4/5/2011	Evidence of Overflow	Pipe Break	0.43	Jones Falls	406 W Cold Spring Ln	21210
4/5/2011	380	Rags & Debris	0.43	Herring Run	6400 Brook Ave	21206
4/6/2011	120	Roots & Grease	0.00	Herring Run	6200 Pulaski Hwy	21237
4/9/2011	130	Rags & Grease	0.00	Jones Falls	2200 Kirk Ave	21218
4/17/2011	1,365	Rags & Sand, Gravel, Rocks	0.00	Patapsco River	3838 8th St	21225
4/17/2011	60	Rags & Grease	0.00	Herring Run	4205 Westview Rd	21218
4/18/2011	900	Rags & Debris	0.00	Jones Falls	1600 W 41st St	2121
4/18/2011	3,600	Rags, Grease, Debris	0.00	Jones Falls	300 E Madison St	21202
4/18/2011	300	Debris	0.00	Jones Falls	1500 Park Ave	21217
4/20/2011	Evidence of Overflow		0.00	Middle Branch - Patapsco River	700 N MLK Jr Blvd	21201
4/20/2011	215	Rags & Grease	0.00	Jones Falls	600 W University Pkwy	21210
4/23/2011	Evidence of Overflow	Rags & Grease	0.19	Jones Falls	1500 Brevard St	21217
4/23/2011	50	Grease & Trash	0.19	Patapsco River	3708 Fair Haven Ave	21226
4/25/2011	15	Rags & Grease	0.02	Herring Run	5700 Belair Rd	21206
4/26/2011	60	Rags & Grease	0.00	Gwynns Falls	3000 Janice Ave	21230
4/26/2011	109	Rags	0.00	Jones Falls	1341 N Carey St	2121
4/27/2011	3,375	Grease & Trash	0.03	Jones Falls	300 E Madison St	2120
4/27/2011	120	Rags & Grease	0.03	Jones Falls	2231 Rogene Dr	21209
4/28/2011	Evidence of Overflow	Rags, Grease, Debris	0.15	Jones Falls	1515 Park Ave	2121
4/28/2011	160	Rags, Grease, Debris	0.15	Patapsco River	5710 Eastern Ave	21224
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Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
5/2/2011	240	Roots, Grease & Sand, Gravel, Rocks	0.00	Jones Falls	4800 Falls Rd	21210
5/3/2011	1,155	Rags, Debris & Sand, Gravelm Rocks	0.00	Gwynns Falls	3016 Janice Ave	21230
5/4/2011	975	Rags, Grease, Debris	0.55	Northwest Harbor	427 N Glover St	21124
5/5/2011	550	Rags, Grease, Debris	0.00	Jones Falls	100 W Lafayette Ave	21201
5/8/2011	Evidence of Overflow	Roots	0.00	No Impact to Waters	3610 2nd St	21225
5/9/2011	480	Rags & Roots	0.00	Jones Falls	200 Cable St	21210
5/9/2011	95	Roots & Trash	0.00	Herring Run	1637 Kingsway Rd	21218
5/9/2011	840	Mud	0.00	Jones Falls	2500 Kirk Ave	21218
5/9/2011	Evidence of Overflow	Rags	0.00	No Impact to Waters	2211 Clifton Ave	21216
5/9/2011	Evidence of Overflow	Rags	0.00	No Impact to Waters	3665 Dudley Ave	21213
5/9/2011	510	Grease & Trash	0.00	Northwest Harbor	123 N East Ave	21224
5/10/2011	360	Rags, Roots, Trash	0.00	Herring Run	5950 Belair Rd	21206
5/11/2011	Evidence of Overflow	Roots	0.00	Jones Falls	4913 Roland Ave	21210
5/12/2011	1,080	Rags, Roots, Grease	0.00	Jones Falls	25 Merrymount Rd	21210
5/13/2011	Evidence of Overflow	Debris	0.00	Gwynns Falls	1638 N Fulton Ave	21217
5/13/2011	Evidence of Overflow	Roots	0.00	No Impact to Waters	2922 Fleetwood Ave	21214
5/13/2011	50	Rags & Grease	0.00	Jones Falls	2308 McCulloh St	21217
5/13/2011	119	Rags	0.00	Patapsco River	4004 8th St	21225
5/15/2011	9,000	Sand, Gravel, Rocks	0.40	Herring Run	Argonne Dr & Harford Rd	21218
5/16/2011	600	Rags, Grease, Debris	0.01	Patapsco River	917 Seagull Ave	21225
5/16/2011	948,000	Sewer liner in Pipe	0.01	Herring Run	Argonne Dr & Harford Rd	21218
5/16/2011	Evidence of Overflow	Rags & Roots	0.01	No Impact to Waters	2103 Erdman Ave	21218
5/17/2011	Evidence of Overflow	Rags & Grease	0.16	No Impact to Waters	3018 Janice Ave	21230
5/17/2011	Evidence of Overflow	Rags & Paper	0.16	No Impact to Waters	1751 E Pratt St	21231
5/20/2011	542	Rags & Roots	0.01	Gwynns Falls	3747 Nortonia Rd	21216
5/21/2011	180	Grease & Trash	0.00	Northwest Harbor	21 N Kresson St	21224
5/21/2011	Evidence of Overflow	Roots & Trash	0.00	No Impact to Waters	4307 White Ave	21206
5/22/2011	Evidence of Overflow	Grease & Trash	0.00	No Impact to Waters	2704 Washington Blvd	21230
5/22/2011	Evidence of Overflow	Rags & Roots	0.00	Jones Falls	4827 Keswick Rd	21210
5/23/2011	1,985	Pipe Break	0.00	Patapsco River	3000 Janice Ave	21230
5/23/2011	Evidence of Overflow	Roots & Debris	0.00	No Impact to Waters	3917 Boarman Ave	21215
5/23/2011	120	Rags & Grease	0.00	Gwynns Falls	3400 Walbrook Ave	21216
5/25/2011	900	Rags, Roots, Debris	0.00	Herring Run	3690 Cardenas Ave	21213
5/25/2011	33	Rags & Sand, Gravel, Rocks	0.00	No Impact to Waters	1500 Aisquith St	21202

Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
5/25/2011	120	Rags & Roots	0.00	Jones Falls	3700 Greenspring Ave	2121
5/26/2011	120	Rags, Grease, Debris	0.00	Gwynns Falls	4507 Wakefield Rd	2121
5/26/2011	1,684	Rags & Roots	0.00	Jones Falls	5102 Roland Ave	2121
5/27/2011	360	Rags & Roots	0.03	Jones Falls	201 Deepdene Rd	2121
5/27/2011	95	Rags & Roots	0.03	Jones Falls	5207 Roland Ave	2121
5/27/2011	Evidence of Overflow	Rags	0.03	No Impact to Waters	3406 W Rogers Ave	2121
5/27/2011	Evidence of Overflow	Debris	0.03	No Impact to Waters	4800 Falls Rd	2121
5/28/2011	396	Rags	0.00	Jones Falls	4800 Falls Rd	2121
5/29/2011	60	Rags & Trash	0.00	Gwynns Falls	2557 McHenry St	2122
5/29/2011	Evidence of Overflow	Debris	0.00	No Impact to Waters	3706 Chestnut Ave	2121
5/29/2011	Evidence of Overflow	Debris	0.00	No Impact to Waters	315 Overhill Rd	2121
5/29/2011	Evidence of Overflow	Rags	0.00	No Impact to Waters	3028 Pinewood Ave	2121
5/30/2011	Evidence of Overflow	Rags	0.00	Patapsco River	800 Seagull Ave	2122
5/30/2011	Evidence of Overflow	Roots	0.00	Jones Falls	101 Woodlawn Rd	2121
5/30/2011	180	Rags & Grease	0.00	Gwynns Falls	903 N Monroe St	2121
5/31/2011	183	Rags & Grease	0.00	Jones Falls	3816 Glengyle Ave	2121
5/31/2011	2,955	Rags, Pipe Break & Sand, Gravel, Rocks	0.00	Jones Falls	Western Run Dr & Eastcliff Dr	2120
5/31/2011	1,530	Pipe Break	0.00	Herring Run	Loch Raven Blvd & Walker Ave	2123

Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
6/1/2011	135	Debris	N/A	Jones Falls	2308 McCulloh St	2121
6/2/2011	465	Pipe Break, Roots & Sand, Gravel, Rocks	N/A	Jones Falls	Western Run & Eastcliff Dr	2120
6/2/2011	134	Rags, Pipe Break	N/A	Jones Falls	1704 W Rogers Ave	2120
6/2/2011	278	Rags, Grease & Sand, Gravel, Rocks	N/A	Jones Falls	2231 Rogene Dr	2120
6/2/2011	Evidence of Overflow	Rags	N/A	None	3914 Park Heights Ave	2121
6/3/2011	71	Rags & Roots	N/A	None	3604 Denison Rd	2121
6/3/2011	118	Pipe Break	N/A	Gwynns Falls	1601 S Caton Ave	2122
6/4/2011	Evidence of Overflow	Debris	N/A	None	3604 Denison Rd	2121
6/6/2011	Evidence of Overflow	Rags & Roots	N/A	None	3604 Denison Rd	2121
6/6/2011	Evidence of Overflow	Debris	N/A	None	1751 E Pratt St	2123
6/9/2011	Evidence of Overflow	Rags	N/A	None	2625 Loyola Northway	2121
6/9/2011	Evidence of Overflow	Rags & Grease	N/A	None	300 Rossiter Ave	2121
6/12/2011	Evidence of Overflow	Rags, Roots, Grease, Debris	N/A	None	3703-3709 Fallstaff Rd	2121
6/12/2011	1,680	Rags, Roots, Trash	N/A	Herring Run	6203 Chinquapin Pkwy	2123
6/12/2011	740	Roots & Trash	N/A	Gwynns Falls	4903 Belle Ave	2120
6/12/2011	2,546	Rags, Pipe Break, Roots, Grease	N/A	Gwynns Falls	5200 California Blvd	2120
6/13/2011	Evidence of Overflow	Debris	N/A	None	1712 Lamont Ave	2120
6/14/2011	Evidence of Overflow	Rags & Grease	N/A	None	3220 Sun St	2122
6/14/2011	204	Roots	N/A	Jones Falls	Club Run & Indian Ln	2121
6/15/2011	40	Rags, Grease, Trash	N/A	Northwest Harbor	16 S Collington Ave	2123
6/15/2011	Evidence of Overflow	Rags, Grease, Debris	N/A	None	30 N Norris St	2122
6/15/2011	84	Rags & Grease	N/A	Jones Falls	2231 Rogene Dr	2120
6/16/2011	440	Rags, Grease, Trash	N/A	Patapsco River	6300 Boston St	2122
6/16/2011	Evidence of Overflow	Rags	N/A	None	3406 W Rogers Ave	2121
6/17/2011	390	Debris	N/A	Gwynns Falls	1822 N Bentalou St	2121
6/17/2011	Evidence of Overflow	Debris	N/A	None	2484 Shirley Ave	2121
6/19/2011	700	Rags, Grease, Trash	N/A	Gwynns Falls	4 N Wheeler Ave	2122
6/22/2011	180	Rags & Roots	N/A	Gwynns Falls	5202 Park Heights Ave	2121
6/22/2011	2,244	Rags & Grease	N/A	Gwynns Falls	3300 Tioga Pkwy	2121
6/26/2011	240	Rags, Grease, Debris	N/A	Patapsco River	6200 Plantview Way	2122
6/27/2011	Evidence of Overflow	Rags, Grease, Debris	N/A	None	2432 Dorton Ct	2123
6/28/2011	Evidence of	Rags & Grease	N/A	None	1001 Arion Park Rd	2122
6/29/2011	Overflow Evidence of	Roots	N/A	None	1100 Gleneagle Rd	2123
6/29/2011	Overflow 120	Rags & Grease	N/A	Gwynns Falls	2325 Hollins Ferry Rd	2123
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^{1.} Unknown Quantity - When DPW visited the site, the problem had already subsided, but the source of discharge was evident.

Traces of sewage were evident but SSO had subsided prior to arrival at the site. N/A- Not Available (March Rain Gauge data not available at time of this report.)

Time	GF07-RG	GF09-RG	HR15-RG	HR17-RG	JF12-RG	JF13-RG	Average
3/1/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/2/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/3/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/4/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/5/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/6/2010 0:00	1.09	1.01	1.03	1.10	1.02	1.37	1.10
3/7/2010 0:00	0.02	0.01	0.01	0.02	0.01	0.02	0.02
3/8/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/9/2010 0:00	0.05	0.06	0.03	0.02	0.02	0.05	0.04
3/10/2010 0:00	3.01	3.69	2.79	2.78	2.86	3.55	3.11
3/11/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/13/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/14/2010 0:00	0.00	0.00	0.00			0.00	0.00
3/15/2010 0:00	0.13	0.12	0.12	0.00	0.11	0.11	0.10
3/16/2010 0:00	0.49	0.49	0.51	0.44	0.45	0.53	0.49
3/17/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/18/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/19/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/20/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/21/2010 0:00	0.22	0.27	0.20	0.19	0.19	0.26	0.22
3/22/2010 0:00	0.05		0.06	0.04	0.05		
3/23/2010 0:00	0.38	0.45	0.40	0.55	0.31	0.23	0.39
3/24/2010 0:00	0.02	0.02	0.01	0.01	0.01	0.00	0.01
3/25/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/26/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/27/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/28/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
3/29/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/30/2010 0:00	0.14	0.18	0.10	0.13	0.10	0.19	0.14
3/31/2010 0:00	0.12	0.11	0.06	0.10	0.07	0.10	0.09

Dain																Date															
Gauge ID	3/1/2011	3/2/2011	3/3/2011	3/4/2011	3/5/2011	3/6/2011	3/7/2011	3/8/2011	3/9/2011	3/10/2011	3/11/2011	3/12/2011	3/13/2011	3/14/2011	3/15/2011	3/16/2011	3/17/2011	3/18/2011	3/19/2011	3/20/2011	3/21/2011	3/22/2011	3/23/2011	3/24/2011	3/25/2011	3/26/2011	3/27/2011	3/28/2011	3/29/2011	3/30/2011	3/31/2011
GF07-RG	0.00	0.00	0.00	0.00	0.00	1.09	0.02	0.00	0.05	3.01	0.00	0.00	0.00	0.00	0.13	0.49	0.00	0.00	0.00	0.00	0.22	0.05	0.38	0.02	0.00	0.00	0.00	0.00	0.00	0.14	0.12
GF09-RG	0.00	0.00	0.00	0.00	0.00	1.01	0.01	0.00	0.06	3.69	0.00	0.00	0.00	0.00	0.12	0.49	0.00	0.00	0.00	0.00	0.27	0.07	0.45	0.02	0.00	0.00	0.00	0.00	0.00	0.18	0.11
HR15-RG	0.00	0.00	0.00	0.00	0.00	1.03	0.01	0.00	0.03	2.79	0.00	0.00	0.00	0.00	0.12	0.51	0.00	0.00	0.00	0.00	0.20	0.06	0.40	0.01	0.00	0.00	0.00	0.00	0.00	0.10	0.06
HR17-RG	0.00	0.00	0.00	0.00	0.00	1.10	0.02	0.00	0.02	2.78	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.19	0.04	0.55	0.01	0.00	0.00	0.00	0.00	0.00	0.13	0.10
JF12-RG	0.00	0.00	0.00	0.00	0.00	1.02	0.01	0.00	0.02	2.86	0.00	0.00	0.00	0.00	0.11	0.45	0.00	0.00	0.00	0.00	0.19	0.05	0.31	0.01	0.00	0.00	0.00	0.00	0.00	0.10	0.07
JF13-RG	0.00	0.00	0.00	0.00	0.00	1.37	0.02	0.00	0.05	3.55	0.00	0.00	0.00	0.00	0.11	0.53	0.00	0.00	0.00	0.00	0.26	0.06	0.23	0.00	0.00	0.00	0.00	0.01	0.00	0.19	0.10
Average	0.00	0.00	0.00	0.00	0.00	1.10	0.02	0.00	0.04	3.11	0.00	0.00	0.00	0.00	0.10	0.49	0.00	0.00	0.00	0.00	0.22	0.06	0.39	0.01	0.00	0.00	0.00	0.00	0.00	0.14	0.09

Time	GF07-RG	GF09-RG	HR15-RG	HR17-RG	JF12-RG	JF13-RG	Average
4/1/2010 0:00	0.15	0.14	0.14	0.12	0.10	0.24	0.15
4/2/2010 0:00	0.02	0.01	0.01	0.00	0.04	0.01	0.02
4/3/2010 0:00	0.09	0.04	0.05	0.04	0.06	0.05	0.06
4/4/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/2010 0:00	0.28	0.47	0.41	0.64	0.28	0.48	0.43
4/6/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/7/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/8/2010 0:00	0.49	0.45	0.41	0.47	0.43	0.50	0.46
4/9/2010 0:00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
4/10/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/11/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/12/2010 0:00	0.34	0.45	0.37	0.34	0.33	0.43	0.38
4/13/2010 0:00	0.21	0.30	0.17	0.21	0.17	0.22	0.21
4/14/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/2010 0:00	1.15	1.36	1.06	1.22	1.30	1.31	1.23
4/17/2010 0:00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
4/18/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/19/2010 0:00	0.22	0.27	0.21	0.22	0.21	0.32	0.24
4/20/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/21/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/2010 0:00	0.18	0.19	0.16	0.16	0.16	0.16	0.17
4/23/2010 0:00	0.18	0.22	0.16	0.20	0.14	0.26	0.19
4/24/2010 0:00	0.52	0.27	0.69	0.37	0.63	0.38	0.48
4/25/2010 0:00	0.02	0.00	0.05	0.01	0.04	0.00	0.02
4/26/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/27/2010 0:00	0.02	0.09	0.00	0.00	0.00	0.08	0.03
4/28/2010 0:00	0.13	0.16	0.15	0.16	0.13	0.19	0.15
4/29/2010 0:00	0.13	0.16	0.15	0.16	0.13	0.19	0.15
4/30/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Rain															Da	ate														
Gauge ID	4/1/2011	4/2/2011	4/3/2011	4/4/2011	4/5/2011	4/6/2011	4/7/2011	4/8/2011	4/9/2011	4/10/2011	4/11/2011	4/12/2011	4/13/2011	4/14/2011	4/15/2011	4/16/2011	4/17/2011	4/18/2011	4/19/2011	4/20/2011	4/21/2011	4/22/2011	4/23/2011	4/24/2011	4/25/2011	4/26/2011	4/27/2011	4/28/2011	4/29/2011	4/30/2011
GF07-RG	0.15	0.02	0.09	0.00	0.28	0.00	0.00	0.49	0.00	0.00	0.00	0.34	0.21	0.00	0.00	1.15	0.00	0.00	0.22	0.00	0.00	0.18	0.18	0.52	0.02	0.00	0.02	0.13	0.13	0.00
GF09-RG	0.14	0.01	0.04	0.00	0.47	0.00	0.00	0.45	0.00	0.00	0.00	0.45	0.30	0.00	0.00	1.36	0.00	0.00	0.27	0.00	0.00	0.19	0.22	0.27	0.00	0.00	0.09	0.16	0.16	0.00
HR15-RG	0.14	0.01	0.05	0.00	0.41	0.00	0.00	0.41	0.00	0.00	0.00	0.37	0.17	0.00	0.00	1.06	0.00	0.00	0.21	0.00	0.00	0.16	0.16	0.69	0.05	0.00	0.00	0.15	0.15	0.00
HR17-RG	0.12	0.00	0.04	0.00	0.64	0.00	0.00	0.47	0.01	0.00	0.00	0.34	0.21	0.00	0.00	1.22	0.01	0.00	0.22	0.00	0.00	0.16	0.20	0.37	0.01	0.00	0.00	0.16	0.16	0.00
JF12-RG	0.10	0.04	0.06	0.00	0.28	0.00	0.00	0.43	0.00	0.00	0.00	0.33	0.17	0.00	0.00	1.30	0.00	0.00	0.21	0.00	0.00	0.16	0.14	0.63	0.04	0.00	0.00	0.13	0.13	0.00
JF13-RG	0.24	0.01	0.05	0.00	0.48	0.00	0.00	0.50	0.00	0.00	0.00	0.43	0.22	0.00	0.00	1.31	0.00	0.00	0.32	0.00	0.00	0.16	0.26	0.38	0.00	0.00	0.08	0.19	0.19	0.00
Average	0.15	0.02	0.06	0.00	0.43	0.00	0.00	0.46	0.00	0.00	0.00	0.38	0.21	0.00	0.00	1.23	0.00	0.00	0.24	0.00	0.00	0.17	0.19	0.48	0.02	0.00	0.03	0.15	0.15	0.00

Time	GF07-RG	GF09-RG	HR15-RG	HR17-RG	JF12-RG	JF13-RG
5/1/2010 0:00	0.09	0.09	0.07	0.08	0.00	0.10
5/2/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/2010 0:00	0.59	0.47	0.61	0.67	0.36	0.61
5/5/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/2010 0:00	0.07	0.06	0.23	0.11	0.05	0.06
5/7/2010 0:00	0.00	0.00	0.01	0.01	0.00	0.00
5/8/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/9/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/10/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/11/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/2010 0:00	0.00	0.00	0.00	0.00	0.01	0.00
5/14/2010 0:00	0.52	0.52	0.29	0.37	0.37	0.50
5/15/2010 0:00	0.30	0.36	0.26	0.60	0.44	0.45
5/16/2010 0:00	0.01	0.00	0.01	0.01	0.00	0.00
5/17/2010 0:00	0.06	0.25	0.07	0.24	0.06	0.30
5/18/2010 0:00	0.22	0.32	0.77	0.58	0.16	0.21
5/19/2010 0:00	0.26	0.30	0.41	1.17	0.16	0.64
5/20/2010 0:00	0.01	0.00	0.01	0.01	0.00	0.02
5/21/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/22/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/23/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/24/2010 0:00	0.01	0.00	0.00	0.00	0.00	0.01
5/25/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/27/2010 0:00	0.00	0.00	0.07	0.03	0.06	0.02
5/28/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/2010 0:00	0.00	0.00	0.00	0.00	0.00	0.00

Pain																Date															
Gauge ID	5/1/2011	5/2/2011	5/3/2011	5/4/2011	5/5/2011	5/6/2011	5/7/2011	5/8/2011	5/9/2011	5/10/2011	5/11/2011	5/12/2011	5/13/2011	5/14/2011	5/15/2011	5/16/2011	5/17/2011	5/18/2011	5/19/2011	5/20/2011	5/21/2011	5/22/2011	5/23/2011	5/24/2011	5/25/2011	5/26/2011	5/27/2011	5/28/2011	5/29/2011	5/30/2011	5/31/2011
GF07-RG	0.09	0.00	0.00	0.59	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.30	0.01	0.06	0.22	0.26	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GF09-RG	0.09	0.00	0.00	0.47	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.36	0.00	0.25	0.32	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HR15-RG	0.07	0.00	0.00	0.61	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.26	0.01	0.07	0.77	0.41	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
HR17-RG	0.08	0.00	0.00	0.67	0.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.60	0.01	0.24	0.58	1.17	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
JF12-RG	0.00	0.00	0.00	0.36	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.37	0.44	0.00	0.06	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
JF13-RG	0.10	0.00	0.00	0.61	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.45	0.00	0.30	0.21	0.64	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Average	0.07	0.00	0.00	0.55	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.40	0.01	0.16	0.38	0.49	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge (gallons) (See Note 7 Below)	Measures taken to identify Source or Resolve	Future/Planned Work
Priority #1	1/3/2002	Stony Run/University Parkway Hopkins House	21218	Jones Falls	Not Resolved	On-going	75,315 (T)	Series of dye and ammonia testing and CCTV inspections. City has made point repairs on sewer linin 39th Street, which seems to have reduced ammonia in the adjacent Storm Drain. CCTV shows significant grease in storm drain pipe from Hopkins House, further investigation required.	The City continued to coordinate with Hopkins house regional property manager and a meeting has been scheduled in July to discuss the City's findings and to propose an approach to resolve this issue.
Priority#2	12/7/2007	Originally Gwynns Run 2325 Hollins Street	21233	Gwynns Falls	5/19/2008	529	Resolved prior to 8/30/2008	Dye and ammonia testing and CCTV inspections. Repaired broken sewer line.	RESOLVED
1	11/30/2007	Mannasota & Shannon	21213	Herring Run	Not Resolved	On-going	7,889,461 (T)	City had on-call contractor cap the under drain to resolve the SDUO, but the sewage is now filtrated int the storm drain pipe. City has reviewed prior work an has determined that a section of per may have not been seed due to sags. SWMD performed additional seed of the sags of the seed of the seed of the determined additional dye showed in storm drian or underdrain.	On-call consultant to evaluate testing and inspection into and provide a recommendation.
2	4/11/2007	6225 York Rd behind Walker Mews Apartment Building	21212	Herring Run	Not Resolved	On-going	1,796,166 (T)	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 is recommended. Manhole required to complete CIPP lining has been located in field.	City to coordinate with On-call contractor to complete additional CIPP Lining, which will be followed-up with confirmatory testing:
3	2/21/2006	Originally Coldspring & Greenspring 4301 Pimlico Rd. (and Loyola Northway)	21215	Jones Falls	2/24/2009	1,099	93,816 (A)	Dye and ammonia testing and CCTV inspections performed prior to CIPP lining.	RESOLVED
4	8/2/2006	508 St. Paul Place	21202	Jones Falls	06/30/11	1,793	3,130,456 (T)	The City coordinated with the property owner, who took corrective actions to address the issue. The City tested on 06/30/11 and found that the problem has been abated.	RESOLVED
5	12/14/2006	Guilford Ave & Eager St.	21202	Jones Falls	2/2/2010	1115	526,824 (A)	Series of dye and ammonia testing performed and CCTV inspections and point repair. Dye appeared to be seeping through SD manhole between the brickwork and the bottom of the pice. Grouted manhole confirmatory testing showed SDUO not resolved. Additional grouting of manhole completed on 2/2/10 and confirmatory testing performed.	RESOLVED
6	11/7/2007	Wyndhurst Ave. west of Lawndale Ave	21210	Stony Run	8/25/2008	292	Resolved prior to 8/30/2008	Dye and ammonia testing and CCTV inspections performed prior to point repair.	RESOLVED
7	10/8/2004	Wyndhurst Ave. west of Lawndale Ave (Box Culvert below Bridge)	21210	Stony Run	5/1/2009	1,666	125,950 (A)	Series of dye and ammonia testing performed and CCTV inspections. Problem identified to be a private property issue. Owner was advised of problem and leak resolved with owner's plumber.	RESOLVED
8	12/11/2003	Gwynns Run trunk drain, Wash Water Lake to Carroll Park	Varies	Gwynns Falls	3/10/2009	On-going	See Note 8 Below	Series of dye and ammonia testing performed and CCTV inspections and point repairs performed at two known sources, namely (2325 bollins Street refor Priority #2 above) and on sewer lines at Bradish St and Winchester Ave. Recent testing indicate ammonia level is below the threshold level.	The City will continue to test. On-call contractor to walk the drain and investigate connections for possible sewage inflow. SYMND has to completed confined space training prior to entry the Gwynns Run SD.
9	10/15/2003	Mill Race Road, Woodberry	21211	Jones Falls	11/4/2009	2209	360,272 (Т)	Raised nearby manholes buried in steep slope. Dye and ammonia testing and CCTV inspections and CIPP liming performed but did not completely abate the problem. Dye test appear to be coming in at bench of Storm Drain manhole. Grout manhole and perform confirmatory testing	RESOLVED

Serial No.	Date of	Location	Zip Code	Stream Affected	Date of Resolution	Duration	Est. Quantity of Discharge (gallons)	Measures taken to identify Source or	Future/Planned Work
	Occurrence				(See Note 6 Below)	(Days)	(See Note 7 Below)	Resolve	
10	4/17/2007	Mannasota Ave 65ft South of Nicholas Ave	21206	Herring Run	5/27/2010	On-going	86,422 (T)	Series of dye and ammonia testing performed and cleaning of pipe prior to CCTV inspections. New manhole has been recommended. New manhole has been installed and the and sewage flow has been re- directed into sewer line.	RESOLVED
11	8/15/2005	Shirley Ave between Pall Mall and Derby Manor (same as Greenspring & Shirley previously provided)	21209	Jones Falls	11/4/2009	1539	1,049,044 (A)	Dye and ammonia testing and CCTV inspections and repair of broken pipe performed but to date problem persists. Grout manhole and perform confirmatory testing	RESOLVED
12	10/4/2005	2901 Chestnut Ave	21211	Jones Falls	7/28/2009	1394	6,477 (Т)	Dye and ammonia testing and CCTV inspections confirmed that private property line is connected directly to storm drain line. Owner to re-connect line.	RESOLVED
13	9/21/2005	Cross Country and Clarks Lane	21215	Western Run	7/20/2009	1454	506,294 (A)	Dye and ammonia testing and CCTV inspections and CIPP lining performed. Confirmatory testing indicate high ammonia reading still persists. City installed concrete plug to the under drain and confirmatory testing performed.	RESOLVED
14	9/18/2007	JHU Campus	21218	Jones Falls	Not Resolved	On-going	2,022,409 (T)	The City sent a letter on March 9, 2011 to JHU notifying them that an on-campus sewage discharge infiltrating into the City atorm drain system existed. JHU advised the Cit on June 2, 2020 and they plan on carrying out the 2020 paint including work on the sewer line in July 2011.	The City continues to follow up with JHU on the progress of the work to ensure timely completion.
15	8/29/2007	4029 Fairview Ave.	21216	Gwynns Falls	3/9/11	1454	333,792 (A)	Series of dye and ammonia testing and CCTV inspections performed. City Housing issued a violation notice to properly owner. Repairs may have been made to SHC at 4029 Fairview. City (SWMD) completed follow-up testing and confirmed SDUO is resolved.	RESOLVED
16	4/4/2005	Across from 1212 Seminole Ave.	21229	Gwynns Falls	5/21/2008	1,143	Resolved prior to 8/30/2008	Dye and ammonia testing performed. Manhole removed and sewer line extended down stream.	RESOLVED
17	7/5/2006	Hillen Road and Waveworth Rd	21239	Herring Run	9/15/2006	72	Resolved prior to 8/30/2008	Series of dye and ammonia testing and CCTV inspections performed and nearby pipe CIPP lined. Confirmatory tests indicate problem no longer persists.	RESOLVED
18	11/7/2007	Amberly Way @ Cotswold	21210	Stony Run	7/15/2009	722	42,493 (A)	A series of ammonia testing and dye testing did not reveal any infiltration into the storm drain. Ammonia and Dye tests results could not be duplicated. All recent tests came up negative.	RESOLVED
19	8/11/2006	Ellicott & Dukeland	21216	Gwynns Falls	3/10/2009	942	1,299,622 (A)	A series of dye and ammonia testing and CCTV inspections and CIPP lining performed.	RESOLVED
20	7/5/2006	W. 24th & Morton St.	21218	Jones Falls	Not Resolved	On-going	2,622,240 (A)	Series of dye and ammonia testing and CCTV inspections performed. Based on field investigations the problem seems to be private property connections. Additional manhole was installed for testing.	City to perform additional dye tests on private property and coordinate with Housing Department to address the issue.
21	7/5/2006	2411. N. Charles St.	21218	Jones Falls	2/24/2009	965	694,800 (A)	A series of dye and ammonia testing and CCTV inspections, point repair and CIPP lining performed. Confirmatory tests indicate problem no longer persists.	RESOLVED
22	11/16/2007	Behind 5512 Boxhill Lane	21210	Jones Falls	11/19/2007	3	Resolved prior to 8/30/2008	Repair has been completed, and has stopped sewage leakage into stream.	RESOLVED

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge (gallons) (See Note 7 Below)	Measures taken to identify Source or Resolve	Future/Planned Work
23	12/17/2007	Lazear Rd, 1600 ft from Franklintown Rd.	21229	Gwynns Falls	1/11/2008	25	Resolved prior to 8/30/2008	Repair has been completed, and has stopped sewage leakage into stream.	RESOLVED
24	9/1/2004	Collins Ave (end of the 500 block)	21229	Gwynns Falls	Not Resolved	On-going	1,794,960 (T)	Beyond the dye, ammonia testing and CCTV inspection, the City decided to perform smoke testing also in this area to identify the source(s) of sewage. Currently, smoke testing notifications are being developed.	Smok testing in this area will be carried out in August 2011.
25	11/30/2006	Cross Country Blvd.& Dale Rd.	21209	Jones Falls	3/10/2009	831	598,320 (A)	A series of dye and ammonia testing and CCTV inspections and CIPP lining performed. Confirmatory tests indicate problem no longer persists.	RESOLVED
26	4/9/2008	4201 Pulaski HwyPompeian Oil	21224	Inner Harbor	3/19/2009	344	417,600 (A)	Installed new sanitary sewer lines and storm drain lines with a dry weather interceptor to correct the problem. Field testing confirmed repairs to Sewers & Storm Drain have resulted in a functional system.	RESOLVED
27	4/23/2008	Armistead Gardens Community	21211	Herring Run	5/26/2008	398	Resolved prior to 8/30/2008	Abandoned siphon has been cleaned and problem is resolved.	RESOLVED
28	1/10/2007	Lovegrove & 31st Southwest Corner	21218	Inner Harbor	Not Resolved	On-going	4,935,168 (A)	City installed new SD manhole for future maintenance. Additional CCTV shows sewer connections from houses are connected to storm drain. Ch-call contractor has conjected discommedior drain. Ch-call contractor has conjected discommedior parallel sewer line. Based on recent visual inspection at downstream SD this site is still releasing sewage.	
29	7/15/2004	31st & Charles 24" VCP- Collapsed Pipe	21218	Inner Harbor	9/21/2009	1891	109,995 (T)	A series of dye and ammonia testing and CCTV inspections performed. Sewage infiltrating into the storm drain. City CIPP Lined sewer on 9/21/09.	RESOLVED
30	7/15/2004	31st & Charles 24" Brick Pipe Bell Shaped	21218	Inner Harbor	05/24/11	2,504	6,273,639 (T)	A series of dye and ammonia testing and CCTV inspections performed. Sewage infiltrating into the storm of mart. City CIPP Lined Sewer on 9:27109. Follow-up testing on 10:2109 showed SDUD not resolved. Additional dye testing revealed further CIPP Linning was needed. Additional CIPP Linning was completed on 30:711. Follow up testing carried out on 05:74111 confirmed that the problem has been abated.	RESOLVED
31	9/10/2008	Cemetery, Pulaski Hwy. at Dean Street	21224	NW Harbor	10/11/2009	395	167,801 (T)	A series of dye and ammonia testing and CCTV inspections and extensive field investigations performed. A choked sanitary sewer caused by a broken pipe was identified and repaired. Confirmatory testing completed on 10/11/	RESOLVED
32	5/19/2009	4016-4018 Rogers Ave Rogers Post Apartments	21207	Gwynns Falls	Not Resolved	On-going	387,034 (T)	Series of dye and ammonia testing performed and CCTV inspections. Problem identified to be a private property issue.	Coordinate with Baltimore City Housing Department to address this issue. City Housing to forward issue to their Compliance dept. for further actions as necessary.
33	6/25/2009	Cross Country Blvd & Crest Rd.	21209	Jones Falls	Not Resolved	On-going	1,495,698 (T)	Confirmatory testing has showed that this SDUO is not resolved. CIPP lining of one remaining section will be done soon.	Will send the remaining seciton for CIPP lining to the on-call contractor.
34	7/17/2009	Pall Mall Rd & Oswego Ave	21215	Jones Falls	Not Resolved	On-going	359,352 (T)	Property with illicit connection to storm drain has been identified. Notified HCD/HABC of an apparent violation, and notice was issued 01/10/11.	Continue coordination with HCD continues, to check when this connection will be re-routed by the owner. Once complete, follow up testing will be carried out.

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge (gallons) (See Note 7 Below)	Measures taken to identify Source or Resolve	Future/Planned Work
35	8/19/2009	Eager St 24* Storm Drain feeding into Guilford Ave	21202	Jones Falls	Not Resolved	On-going	290,989 (T)	Investigation ongoing. The current focus is on ar apartment building on St. Paul Street, north of Eager St. Latest televising of pipe headed toward building on 12/8/10.	The on-call contractor will build another manhole
36	8/20/2009	Carlowe Road @ Upland Apartments	21210	Jones Falls	04/29/11	617	247,953 (A)	Completed ammonia testing, dye testing and CCTV Inspection. City issued a Violation Notice to property Owner. City met with owner at the site and presented their findings. A notice was issued on 01/11/11. Follow uptesting (three separate times inthe last quarter) by the City indicated that the repairs made by the owner have resulted in the abatement of the problem.	RESOLVED
37	11/6/2009	Lakewood Ave & Madison St (66° Storm Drain)	21205	Inner Harbor	3/8/2010	121	702,720 (T)	Verified by ammonia testing that sewer water was draining from under drain pipes connecting to the 66° Storm Drain.	RESOLVED
38	11/6/2009	3302 Esther Place (inside 54'storm drain)	21212	Inner Harbor	Not Resolved	On-going	679,289 (T)	For north side, letter to be sent to HCD/HABC. HCD issued 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.	Follow up with HCD to check when this connection will be re-routed by the owner. Once complete, follow up testing will be carried out.
39	12/2/2009	6237 York Rd @ Lake-Walker Park	21212	Herring Run	05/24/11	538	145,597 (A)	Sewers on York Rd. near Schwarz Avenue were CIPP lined on 03/14/11. Follow up testing was carried out on 05/24/11 which confirmed that SDUO has been abated. Estimated quantity of discharge has been abated based on actual date of abatement.	RESOLVED
40	5/26/2010	Cross Country & Chillham Rd (300 ft northeast of intersection in am uncharted 15" Storm Drain)	21209	Western Run	Not Resolved	On-going	16,302 (T)	Verified as SDUO site by ammonia field test and dye test completed on May 26, 2010.	City to complete further site investigation to determine additional inspection and testing work to be completed to locate the source.
41	5/26/2010	6214 Pimlico Rd (in Manhole)	21209	Western Run	Not Resolved	On-going	143,280 (T)	Verified as SDUO site by ammonia field test and entercoccci test completed on May 26, 2010. On-call consultant deplored dye in plumbing fixture of synagogue and dye appeared in downstream SD manhole.	This site seems to be a private property SDUO requiring coordination with Baltimore City Housing Department to address this issue. Further investigation will be performed to verify.
42	6/3/2010	Cross Country & Key Ave (Storm Drain MH with sewage in bottom)	21215	Western run	Not Resolved	On-going	54,318 (T)	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.	This section of sewer will be CIPP Lined as recommended in the Jones Falls Final Sewershed Plan.
43	6/3/2010	300 Block of Wyndhurst Ave.	21210	Stoney Run	Not Resolved	On-going	82,944 (T)	Verified as SDUO site by ammonia field test and dye test completed on June 3, 2010. Dye testing of sewer line showed sewage infiltration into adjacent storm drain via CCTV. CIPP Linning was completed on 21/7171 based on consultants recommendation and a tolon-up field test confirmed that SDUO was resolved.	RESOLVED
44	6/17/2010	4501 Schenley Rd.	21210	Stoney Run to Jones Falls	Not Resolved	On-going	81,648 (T)	06/22/11 dye test by SWMD confirms that violation still exists. A letter will be sent to HCD requesting issuance of a violation notice.	UES will send a letter to HCD for violation notice.
45	6/23/2010	5015 Greenleaf Rd.	21210	Stoney Run to Jones Falls	Not Resolved	On-going	53,568 (T)	Verified as SDUO site by ammonia field test completed on June 23, 2010. On call consultant detected sewer water in the bottom of SD inlet. City recommended further testing be completed. Additional testing was completed consultant is recommending partial replacement of sewer line along Greenled Ave. This work is scheduled to start in July 2011.	Complete the partial pipe repalcement work and carry out testing to confirm that the problem has been abated.
46	6/3/2010	Pulaski Hwy & 62nd Street (Downstream side of Culvert)	21237	Moores Run to Herring Run	Not Resolved	On-going	346,143 (T)	Verified as SDUO site by ammonia field test completed on June 3, 2010. Consultant has determined the source of the sewage infiltration may be from houses in the Baltimore (Joy and County. City continues to complete further site investigation to confirm the City source and generate information to present findings to generate information to present findings to a Baltimore County. In this regard, an email was sent to Baltimore County on 69/29/11 for assistance in dye-testing.	Dye-testing will be carried out in August 2011, once all record drawings research is complete.

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge (gallons) (See Note 7 Below)	Measures taken to identify Source or Resolve	Future/Planned Work
47	7/27/2010	6000 Block of Hillen Rd (just south of Bridge)	21229	Herring Run	Not Resolved	On-going	15,259 (T)	Verified as SDUO site by ammonia field test and dye test completed on July 27, 2010. On-call consultant noticed sewage infiltrain into SD. CIPP Linning was completed on 3/11 based on Consultants recommendation.	RESOLVED
48	8/4/2010	3412 - 3418 Glenmore Ave	21214	Moores Run to Herring Run	Not Resolved	On-going	166,320 (T)		Follow-up testing will be performed to confirm if the repairs resolved the problem.
49	8/25/2010	815 Winans Way	21229	Gwynns Falls	04/29/11	247	11,951 (A)	Verified as SDUO site by ammonia field test and dye test completed on August 25, 2010. On-cail consultant submitted plans for CIPP lining and marhole grouting. CIPP lining was completed on 22/21/11 as recommended by on-cail consultant. Testing on 4/29/11 confirmed that problem has been abated.	RESOLVED
50	8/19/2010	Cemetery, Pulaski Hwy. at Dean Street	21224	NW Harbor	Not Resolved	On-going	N/A	Ammonia testing was completed on 8/19/10 and showed positive for sewage in the SD manhole. Tested manhole for fecal coliform. The numbers were very low indicating source of ammonia is not sewage.	Resolved. Flow not reported since it was found not to be an SDUO during preliminary investigations
51	9/9/2010	Barre St. near Sterrett	21203	Inner Harbor	Not Resolved	On-going	7,605 (A)	Investigation ongoing. Based on current findings, either dye testing must be done at 820 Barre St., or a manhole would have to be built in the sidewalk. The property owner has not responded to UES letter.	UES to contact HCD/HABC for issuance of a violation notice.
52	11/17/2010	39th & University Pkwy	21218	Jones Falls	Not Resolved	On-going	146,717 (T)	Investigation ongoing, the City will need to clean the drain due to blockage, in order to televise.	Have the storm drain cleaned by the on-call contractor and CCTV it.
53	5/12/2011	Dale Rd. at Crest Rd.	21209	Jones Falls	Not Resolved	On-going	7,056 (T)	A site visit on 07/14/11 indicated that very recent work at the site had been in progress. Area was taped off, and new inlet grates visible.	Meet on-site to further investigate.

SDUO Site is Resolved & Confirmed by Testing

SDUO Site on Private Property

1. Total SDUO Sites Documented: 55

2. Total SDUO Sites Resolved: 32 (58% Complete)

3. Total SDUO Sites on Private Property: 10

4. Total SDUO Sites Unresolved: 23 (42% Open)

5. New SDUO Sites documented in the last Quarter: 1

Under the column entitled "Date of Resolution", if the note reads Not Resolved an end date of 12/31/2010 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. The Gwymns Run trunk drain (Site #8) is a combination of 2 separate SDUO sites (Priority #2 & #19), which have both been resolved. Priority #2 was resolved prior to 1930/2008 and Site #19 was resolved on 3/10/2009. We have considered this site the combination of Priority #2 and #19 sat they are directly connected to the Gwymns Run trunk drain, therefore all quantities are tracked and quantified as part of the protocol in the abromentioned SDUO sites. Therefore, the Gwyms Run site should be considered resolved.

The flow quantities were re-adjusted in the previous quarter. This re-adjustment has resulted n different flows for some of the locations, shown in bold.

(T) - Flow calculated utilizing TKN concentration.
 (A) - Flow Calculated utilizing Ammonia concentration.
 The City ultimately, plans on calculating flows using TKN - per guidelines of the approved protoc by EPA

Civil Action No. JFM-02-1624 SDUO Overflow Occurrences Calendar Quarterly Report No. 35 For Calendar Quarter Ending June 30, 2011

