# City of Baltimore Sanitary Sewer Overflow Consent Decree

Civil Action No. JFM-02-1524

Calendar Quarterly Report No. 29 For Calendar Quarter ending December 31, 2009

Submitted: January 28, 2010

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.

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Kishia L. Powell, P.E. Bureau Head

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#### A. INTRODUCTION

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

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

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

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

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

#### B. PROGRESS OF IMPLEMENTATION OF SECTION VI REQUIREMENTS

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

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

- A. <u>General Requirements:</u> During the calendar quarter ending September 30, 2009, 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 4 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 is waiting for a response letter from MDE/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 29<sup>th</sup> 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. Practical 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. 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. 136 is located at 323 Wilson Ave.

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. Elimination of Combined Sewer Overflows:

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 December 31, 2009, 6 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	October	November	December
2, 3, 5	2	Upper Jones Falls Interceptor	0	0	0
7	4	Lower Jones Falls Interceptor	1	1	1
8	5	Stony Run Interceptor & P.S.	1	1	1
10	7	Greenmount Interceptor	2	1	1
23	9	Lower Gwynns Run Interceptor	0	0	0
24	10	Gwynns Run Sewershed	3	3	3
		Total	7	6	6

A summary of rainfall and flow monitoring data collected during March, April and May 2009 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.

<u>Sewershed Study and Plan:</u> At this time, the City does not anticipate any difficulties or delays in meeting the milestone dates for completion of the Sewershed Study and Plan for any sewershed. Jones Falls, the first of the sewershed plans was submitted 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.

Currently, four Sewershed Studies are on-going. The table below provides the City's Notice to Proceed date for each Sewershed Study, as well as a summary of field work accomplished to date. As the Sewershed teams perform quality control and differentiate the non-DPW and private property assets the quantities listed below will change accordingly.

B.

Sewershed Name	City Notice to Proceed Date	Approx. MHs inspected to Date	Approx. CCTV Inspected to Date (linear feet)
Jones Falls	5/24/06	7,044	1,091,904
Herring Run	11/1/06	6,903	1,469,771

High Level	1/31/07	4,871	816,616
Low Level	5/9/07	6,572	1,105,984
Gwynns Falls	6/20/07	4,509	821,452
Outfall	8/8/07	1,450	326,051
Patapsco	8/8/07	1,180	223,427
Dundalk	8/22/07	563	132,780
TOTAL		33,092	5,987,985

- C. <u>The Sewershed Study and Plan Elements:</u> The Plan Elements in the Consent Decree are to be followed for each sewershed. The City has developed and continues to improve upon and review a Sewershed Study Manual for the consultants to follow during their evaluations. This document provides uniform guidelines for conducting the Sewershed Studies.
- D. <u>Collection System Inspections:</u> Please refer to Section B above for a summary of inspection progress.

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 4, 2007, MDE approved the request to waive inspection of selected portions of the collection system.

- E. <u>Infiltration and Inflow ("I/I") Evaluation:</u> The City had selected 3 contractors to perform the flow monitoring and rainfall monitoring task as required by the Consent Decree. Notice to Proceed on these contracts was issued in February 2006. Flow monitoring began on May 9, 2006 and as of December 31, 2009, the flow monitoring continues at 10 meter locations throughout the City including Paragraph 8 Project and long term monitoring program.
- F. <u>Long-Term Capacity/Peak Flow Management:</u> During the calendar quarter ending December 31, 2009, there was no capacity/flow management analysis activity related to the Sewershed Studies and Plans.
- G. Sewershed Study and Plan(s) Approval and Implementation: The Jones Falls and Herring Run Sewershed Study Plan Reports were submitted to EPA and MDE on 12/28/08 and 06/26/09 respectively. The High Level and Low Level Sewershed Study Plan Reports were submitted to EPA and MDE on 12/21/09 and 12/22/09 respectively.
- H. **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 December 31, 2009, 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 Paragraph10.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 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 2 until further investigation can be performed. **The City awaits input from MDE and EPA on this action.** 

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 to send the owner a notice to eliminate this illegal connection.

- B. <u>Updated List of Illegal Connections:</u> Appendix 2 contains the updated list of 38 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 December 31, 2009, 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 December 31, 2009, 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 3 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 December 31, 2009, 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 December 31, 2009, 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 December 31, 2009, 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 December 31, 2009, there was an overflow at the Jones Falls Pumping Station (JFPS), which required a root cause analysis to be performed as part of the investigation. The findings of the analysis indicate grounding of sub panels at the JFPS. Additionally, an overflow occurred due to a pipe break at the Clinton Street grinder pump and was repaired immediately. No root cause analysis was required for this overflow.
- F. <u>Pumping Station Operation and Maintenance Manuals:</u> As of December 31, 2009, 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 ("SOP's") 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 December 31, 2009.

Table 11-1: Pumping Station Inspection and Repair Program

Pumping	Date of Inspection	Date of Repair	Repairs or	No. of
Station	Completion	Completion	Improvements	Overflows
Eastern Avenue				None
Brooklyn	All Pumping			None
Dundalk	Stations			None
Jones Falls	inspected	See Appendix 3	See Appendix 3	1
Locust Point	twice per day throughout	See Appendix 3	See Appendix 3	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 of the model during this Quarterly period.

#### Paragraph 13: Collection System Operation and Maintenance

- A. During the calendar quarter ending December 31, 2009, 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 is in the process of implementing 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 recorded in the GIS.
- 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 will continue to review data in preparation for the next Annual Progress Report.

#### Paragraph 14: Information Management System Program

A. During the calendar quarter ending December 31, 2009, Baltimore continued to develop an information management system that will facilitate engineering analysis, evaluation, operation and maintenance of the collection system.



- B. <u>Geographic Information System:</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.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, and maintenance crews have received appropriate training.
- 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.** Progress Reports: Development of the Baltimore collection system inventory database continued throughout the calendar quarter ending December 31, 2009. 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, and all required database fields will be 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.
  - E. Progress Reports: All requirements of Paragraph 15 have been completed as noted in Appendix H of Consent Decree.

#### Paragraph 16: Emergency Response Plan – Unpermitted 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 unpermitted 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. Baltimore revised the draft Emergency Response Plan accordingly or otherwise responded 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 provided updates to the ERP for 2009 on December 28, 2009.
- E. No portions of the Emergency Response Plan are 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 December 31, 2009, Baltimore 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 notification of overflows was made to MDE within 24 hours of the time 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 December 31, 2009 is provided in Appendix 4.
- B. During the calendar quarter ending December 31, 2009, 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 December 31, 2009 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 December 31, 2009, there were no other anticipated problems with Section VI requirements to report.



#### D. DESCRIPTION OF SEP ACTIVITIES

The study and 30% design for the Patapsco Wastewater Treatment Plant Enhanced Nutrient Removal (ENR) project was completed and submitted to Maryland Department of the Environment (MDE) and US EPA Region III (EPA) in September 2004. The MDE letter approving the 30% design for the Patapsco Wastewater Treatment Plant was on December 1, 2004. The EPA letter approving the 30% design was on received May 24, 2005.

The consultant agreement for the design of the Patapsco Wastewater Treatment Plant ENR project was approved by the City's Board of Estimates on December 21, 2005. As of the calendar quarter ending December 31, 2009, 100% design documents are currently under review for SC 845 - BAF and tertiary PS. SC 852 - Denitrification filters project was advertised on March 27, 2009 and the bids are currently being reviewed. Bids were rejected and this project will be readvertised on October 13, 2009. This project was re-advertised and the successful bidder was awarded the Notice to Proceed (NTP) on December 21, 2009.

In addition, the City has selected the consultant for engineering services for SC 855 - ENR Modifications to the Existing Facilities at the Patapsco Wastewater Treatment Plant. As of the calendar quarter ending December 31, 2009, the 100% design has been submitted and the Contracts Review Committee (CRC) comments are being addressed for advertisement.

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

As of December 31, 2009 the City of Baltimore has added the Sanitary Discharges of Unknown Origin (SDUO) tracking sheet to the Quarterly Report per the requirements of the policy letter by EPA and MDE dated March 31, 2009. The details of these sites are located in the SDUO tracking sheets in Appendix 4.

The City provided a response to MDE/EPA and requested additional time to research and develop possible methods of quantifying SDUOs in a letter dated April 30, 2009. The City submitted the SDUO Quantification Protocol to MDE and EPA for review, comments and approval on August 06, 2009. A response comment letter to this protocol was received by EPA on December 21, 2009.

### **APPENDIX 1**

## STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS

#### APPENDIX 1 STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS AS OF JUNE 30, 2009

		200	- JUNE 30, 2009				
PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
		UPPER JONES	FALLS SEWERSHI	ED			
1	Western Run Interceptor (JPI Branch) Sanitary Contract Nos. 760 & 789	1. Install approximately 880 linear feet of 30-inch parallel relief sewer from JPIB49 to JPI10 (along JPI90A-JPI94) (SC760) 2. Install approximately 9,400 linear feet of 21- to 24-inch parallel relief sewer from JPI20 to JPI65 (SC789) 3. Rehabilitate approximately 3,300 linear feet of existing 18-inch sewer from JPI07 to JPI20 (SC789)	June 30, 2002	June 30, 2004	June 30, 2005	Eliminates SSO nos. 21, 22, 23, 24 and 29	Complete
2	Upper Jones Falls Interceptor (North & South of Pepsi Cola Plant) Sanitary Contract Nos. 772 & 824	1. Rehabilitation of approximately 1,800 linear feet of existing 42- to 48-inch sewer located between JP01 (M Washington Flume) and JP10, and approximately 6,570 linear feet of 48- to 60-inch sewer located between JP20 and 19-70. 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.	it. June 30, 2004	December 27, 2006	12/30/2008 **	Eliminates SSO Nos. 33 and 34	SC 772- Practical Completion was achieve on June 30, 2006. SC 824 - Construction Phase** Letter sent to MDE and EPA on 6-25-07 requesting an extension of the SSO elimination date to December 2008. MDE response letter approving extension was received on September 5, 2007. Eliminated SSO Nos 33 and 34 on 12/10 and 12/23/08, respectively.
3	New Jones Falls Force Main/Pressure Sewer - Lower Section and Valves improvements of existing force/pressure sewer Sanitary Contract Nos. SC779 & SC805	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)     Improvements to gate valves, blow-off valves and air release valves for existing force main/pressure sewer (SC 805)	December 30, 2002	June 30, 2004	6/30/2005 - SEE STATUS	Contributes to elimination of SSO No. 5	SSO No. 5 cannot be eliminated until projects 4 and 5 are completed.
4	Jones Falls Pumping Station Force Main/Pressure Sewer Sanitary Contract No. 800	Upgrade existing force mains/pressure sewer to handle increased flows from rehabilitated/upgraded Jones Falls Pumping Station as well as additional flows from possible future pumping stations in Stony Run and along the JGA branch	June 30, 2005	12/29/2007**	May 2,2008	Contributes to elimination of SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 6-11-07 requesting additiona 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 127/707 requesting additional 60 day extension for pratical completion. Practical completion cocured on 1/23/08. Awaiting response from MDE and 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 additions 90 day practical completion extension to December 2007. MDE response letter approving additional extension received September 5, 2007. Benifi
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 JONES	FALLS SEWERSH	ED			
7	Lower Jones Falls Interceptor (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 JG051 (at the connection of the JGE branch) (SC318)     Rehabilitation of approximately 16,500 linear feet of existing sewer ranging from 12- to 50-inch (SC773)     Inverted siphon rehabilitation in Falls Road (marhole JG062) (SC775)     Stream bank restoration along Union Avenue near Meadow Mills at Woodberry	July 31, 2003	June 30, 2006	2/28/10***	Eliminates SSO No. 67	Post Construction Monitoring Phase.  Monitoring period is extended at one site.
8	Station (JGF Branch)**	Construct a 20 mgd capacity pumping station near Department of Public Works Solid Waste Site near the Intersection of 29th Street and Sisson Street.     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]     Parallel approximately 1,080 linear feet of existing sewer from south of Coldspring Lane (JGF48) to the new pumping station with 18 to 36-inch sewer	December 30, 2005 (SC-819 & 838) June 30, 2006 * (SC-839 & 847)	5/31/2009***	2/28/10***	Contributes to elimination of SSO No. 72; eliminates SSO No. 129	Construction Phase* MDE/EPA approved the extension letter on May 27, 2009, approving additional 90 day practical completion extension to May 31, 2009 and a 180-day ime extension to May 31, 2009 and a 180-day time extension to February 28, 2010 for SSO #67 and #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 ongoing with tunnelling, and stormdrain connection work. Flow monitor installed at new Stony Run Pump Station on August 26, 2009.
9		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 2. Improvements to siphon/SSO No. 125 under 183 (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	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.     Line approximately 6,000 linear feet of 15- to 33-inch existing sewer.	December 30, 2005	12/27/07 **	2/28/10***	Contributes to elimination of SSO No. 72	Construction Phase. SC 833 Extension letter was sent on 12.7-07 for a 90 day extension through March 29, 2008. This extension 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	west of RR tracks) Sanitary Contract No. 830	Cleaning and inspection of siphon with repairs as necessary.     Elimination of blow-off.      Wide by MMS *** Appropried by EDA	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 68	Complete
Appl	oved by MIDENERA. Appro	ved by MDE, ***Approved by EPA	nnondiy 1 - 1				Note: Shaded

#### APPENDIX 1 STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS AS OF JUNE 30, 2009

PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
		HERRING I	RUN SEWERSHED				
12	Moores Run Interceptor - Middle Section Storm Water Contract Nos. 7746 and 7751	Construction of approximately 400 linear feet of 18-inch, approximately 600 linear feet of 21-inch, approximately 4900 linear feet 24-inch, approximately 1000 linear feet of 27-inch, and approximately 100 linear feet of 30-inch sewer to replace existing interceptor	ear 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 sew to replace the existing interceptor	<sup>rr</sup> 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*
		GWYNNS FA	ALLS SEWERSHED				
17	Powder Mill System Improvements including GFG branch in Gwynns Falls Sewershed Sanitary Contract Nos. 777 & 804	Rehabilitation of approximately 12,000 linear feet of 12- to 24-inch conveyance piping (SC777) and approximately 33,000 linear feet of 8- to 10-inch collection piping (SC804)	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 28P, 29P and 33P	Complete
18	Dead Run System Improvements DRA Branch Sanitary Contract No. 788, 825	Clean, inspect and rehabilitate of approximately 20,000 linear feet of 12- to 24-inch conveyance piping (COE and approximately 11,000 linear feet of 8- to 12-inch collection piping (SC788).	) June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 16P and 17P	Complete
19	Maidens Choice Interceptor Sanitary Contract No. 826	Clean, inspect, and rehabilitate 12,400 linear feet of 12- to 24-inch conveyance piping.	On-call contract	June 30, 2007	June 30, 2008	Eliminates SSO Nos. 23P and 24P	Construction Phase - Complete
20	Elimination of Siphon Blowoffs (Siphon No. 11 - Annapolis Road and Clare Street; Siphon No. 12 - Chesholm Rd. west of 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*
		COMBINE	D SEWER AREAS				
21	Walbrook Sanitary Contract No. 780	Implementation of Long Term Control Plan and combined sewer separation design in Walbrook area		June 30, 2002	June 30, 2003	Eliminates CSO No. 21P	Complete
22	Forest Park Sanitary Contract Nos. 780 and 813	Implementation of Long Term Control Plan and combined sewer separation design in Forest Park area	December 30, 2003	June 30, 2005	June 30, 2006	Eliminates CSO No. 13P and SSO Nos. 10P, 11P, 12P, 18P, 19P, 25P, 26P, 27P and 31P. SSO Nos. 10P, 18P, 19P & 31P are eliminated.	Complete
		HIGH	LEVEL SEWERSHE	D			
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*
		LOW LEV	EL SEWERSHED				
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
* Appr	oved by MDE\EPA. ** Appro	ved by MDE, ***Approved by EPA					

## APPENDIX 2 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	
2. 6203 Biltmore Ave.	311 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	
3. 3310 Clarks Ln.	212 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	
4. 3312 Clarks Ln.	212 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	
5. 3601 Clarks Ln.	256 B 1	Property Owner	Area Drain	3/21/2005	Positive	Newly Identified	
6. 2238 Crest Rd.	14 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	
7. 2302 Crest Rd.	13 A 5	Property Owner	Downspout	6/20/2005		Newly Identified	
	13 A 6	Property Owner	Downspout	6/20/2005		Newly Identified	
8. 5616 Cross Country E	Blvd. 99 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	
9. 6309 Fairlane Dr.	154 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	
	154 B 1	Property Owner	Downspout Connection	6/20/2005		Newly Identified	
10. 6908 Fieldcrest Rd.	272 B 3	Property Owner	Downspout Connection	6/20/2005		Newly Identified	
11. 3800 Glengyle Ave.	275 B 13	Property Owner	Downspout Connection	6/20/2005		Newly Identified	
12. 6309 Greenspring Av	ve. 153 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	
	153 B 4	Property Owner	Area Drain	3/28/2005	Positive	Newly Identified	
13. 2212 Ken Oak Rd.	100 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	
	100 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	
14. 2416 Ken Oak Rd.	103 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	
15. 5609 Key Ave.	50 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	
16. 2504 Larryvale Rd.	154 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	
17. 5815 Lochlea Rd.	116 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	
18. 5806 Park Heights Av	ve. 78 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	
	78 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	
	78 B 3	Property Owner	Downspout	6/20/2005		Newly Identified	
	78 B 9	Property Owner	Downspout	6/20/2005		Newly Identified	
	78 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	
19. 5905 Park Heights Av	ve. 95 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	
20. 6414 Park Heights Av	ve. 315 A 4	Property Owner	Downspout Connection	6/20/2005		Newly Identified	
	315 A 3	Property Owner	Area Drain	3/22/2005	Positive	Newly Identified	
21. 7126 Park Heights Av	ve. 280 B 16	Property Owner	Downspout Connection	6/20/2005		Newly Identified	
22. 6311 Pearce Ave.	203 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	
	203 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	
23. 6106 Pimlico Rd.	135 A 1	Property Owner	Driveway Drain	3/28/2005	Positive	Newly Identified	
24. 6306 Pimlico Rd.	127 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	
25. 5503 Rusk Ave.	30 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	
26. 3208 Shelburne Rd.	334 A 1	Property Owner	Driveway Drain	3/15/2005	Positive	Newly Identified	
27. 1702 South Rd.	324 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	
28. 2117 Sulgrave Ave.	320 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	
29. 2607 Taney Rd.	183 B 4	Property Owner	Driveway Drain	3/23/2005	Positive	Newly Identified	
30. 2615 Taney Rd.	183 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	
31. 2700 Taney Rd.	183 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	
32. 2808 Taney Rd.	182 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	
	182 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	
33. 2810 W. Strathmore	Ave. 180 A 5	Property Owner	Downspout	6/20/2005		Newly Identified	
34. 3602 Chesholm Rd.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	
35. 6708 Park Heights Av		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	
36. 4214 Groveland Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	
37. 4414 Groveland Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	
38. 2705 Queen Anne Av	/e.	Property Owner	Downspout	5/9/2005	Positive	Newly Identified	

### **APPENDIX 3**

## PUMPING STATION WORK ORDERS

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01/04/10 06:22:13 Total Issued W/O's Locations: WOCOMPMSAL Oct. 01, 09 - Dec. 31, 09 \*\*BRKLYN DUNDAL EASTER JF\*\* as of 06:22:13 PUMPING STATIONS - PM only \*\*LOCPO MOST GUAD WSTPT \*\* on 01704/10 WO Wrk Craft Short problem Co Cost Cost Parent WO TYPE WO MO Sts No Center Loc Tesue Cmplt Typ Code Description Id Number Date Date  $\bigcirc$ 11 PUMPING ST BRKLYN 10, 81157 130 P 20091001 20091005 PM INSPS INSPECTION 10.81158 30 P 20091001 20091005 PM INSPS INSPECTION 10.81159 25 P 20091001 PM IMSPS IMSPECTION 10.91160 30 [2] 20091001 20091116 PM INSPECTION 10.81161 30 P 20091001 20091008 PM INSPS INSPECTION 10.81162 30 P 20091001 20091006 PM INSPS INSPECTION 10 10.81163 30 720091001 20091006 PM INSPS INSPECTION 10.81164 30 P 20091001 20091117 FM INSPS CLEAN AND INSPECT 10.81165 30 P 20091001 20091117 PM INGPS CLEAN AND INSPECT 54 54 54 54 54 54 10.81258 272 7.7 20091001 PM PA INSPECT VARIOUS UNITS 10.81301 25 0 20091001 CHECK VARIOUS COMPONENTS 10.81302 25 0 20091001 CHECK VARIOUS COMPONENTS PRIDA 10.81303 7. E. 20091001 INSPECTION 20091001 20091022 PM PM CHECK VARIOUS COMPONENTS AND LUBRICATE 10.91304 30 P 20091102 20091119 PM 10.81395 30 P MCHPS CLEAN VACUUM LINES 10.81386 30 20071102 20071118 FM MCHFS CLEAN VACUUM LINES 10.81428 30 P INSPS INSPECTION 20091102 20091119 FM 10.81429 20091102 20091119 PM 30 P INSPS INSPECTION 10.81430 20091102 20091117 FM INSES INSECTION 10, 81431 30 P 20091102 20091117 PM INSPS INSPECTION 10.81432 as p 20091102 PM INSPS INSPECTION 10.81433 30 20071102 20071116 FM INSPS INSPECTION 10.81434 30 P 20071102 20071117 PM INSPS INSPECTION 10.81435 30 9 20091102 20091119 PM INSPS INSPECTION 10. 91436 30 F-3 20091102 20091119 FM INSPS INSPECTION 10.81451 25 6 20071102 PM HA CLEAN AND INSPECT 10.81452 25 6 20091102 PM HA CLEAN AND INSPECT 10.81462 30 50041105 50041119 bM BLDG INSPECT AND REPAIR 10.81583 30 8 20091102 20091125 PM PM CHECK VARIOUS COMPONENTS 10.01584 30 P 20071102 20071125 PM PM CHECK VARIOUS COMPONENTS 10.81595 30 F 20091102 20091125 PM PM. CHECK VARIOUS COMPONENTS 25 P 10.81586 20091102 PM PM CHECK VARIOUS COMPONENTS 10.81587 25 9 20091102 PM PM CHECK VARIOUS COMPONENTS 10.91588 20091102 20091125 PM INSPECTA CHECK VARIOUS CUMPONENTS 10.91599 30 F 20091102 20091125 PM PM INSPECT: CHECK VARIOUS COMPONENTS 10.01590 30 P 20091102 20091125 PM PM LUBRICATION AND CHECKS 10.81591 30 20071102 20071125 PM CHECK UNIT (GEAR REDUCER) 10.21592 ao F 20091102 20091125 PM PM CLEAN AND LUBRICATE UNIT 10.81573 30 P 20091102 20091125 PM CLEAN AND LUBRICATE UNIT 10.01594 30 20091102 20091125 PM CLEAN AND LUBRICATE UNIT 10.81595 30 P 20091102 20091125 PM CLEAN AND LUBRICATE UNIT 10.81596 30 P 20091102 20091125 PM CLEAN AND LUBRICATE PM 10.91597 30 [,] 20091102 20091125 PM PM CLEAN AND LUBRICATE 10.81598 30 P 20091102 20091125 PM CLEAN AND LUBRICATE 10.81599 30 P 20091102 20091125 PM PM CLEAN AND LUBRICATE 10.81600 30 13 20091102 20091125 FM PH CHECK VARIOUS UNITS 10.81601 30 P 20091102 20091125 PM PM CHECK VARIOUS UNITS 10.81602 30 P 20091102 20091125 PM PM INSPECTION 

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		10.81862		40 to		20091201		PM	INSPS	INSPECTION
		10.81863		200 Ca)		20091201		PM	INEPS	INSPECTION
		10.01644	A Commission of the Commission	20-3 (1)P		20091201	Management of the second secon	PM	INSPS ·	
		10.81845		Property Contraction		20091201		PM	INGPS	INSPECTION
		10.81846		25		20071201		PM	INGPS	INSPECTION
		10.81915		25		20091201	. The second control of the second se	1214	PM	INSPECT OPERATION AND LUBE.
		10.81916	•	102 103 103 103		20091201		PM	ЫA	INSPECT OPERATION AND LUBE
		10.81917		F-1 (m)		20041501	The ephodestown A.	PM	PM	INSPECT OPERATION AND LUBE
		10.81718		the on		30091301	- establishe shape service some an	PM	F- 6-4	INSPECT OPERATION AND LUBE
		10.81919		M1 0+ (+42)		20091201			PW	INSPECT OPERATION AND LUBE
		10.81920		22.53		20091201		PH	PM	INSPECT OFERATION AND LUBE
		10.81921		10017 1000		20041501			P.W	CHECK VARIOUS COMPONENTS
		10.81922	•	your year		20091201		PM	PM	CHECK VARIOUS COMPONENTS
		10:81923		(2) 1/2)		20091201		PM .		INSPECTION
		10.81924		esen 16.5		20091201	· · · · · · · · · · · · · · · · · · ·	PH	PM	INSPECTION
		10.51925		The state		20091201		PM	PM	INSPECT AND LUBRICATE GATE
		10.81926		for the tree		20091201		PM	PM	INSPECT AND LUBRICATE GATE
1 ×		10.81927		100 mg		20091201		ta ivi	PM	INSPECT AND LUBRICATE GATE
		10.81928		25		20091201			РИ	INSPECTION
		10.81929		10000 2100		20091201	-	PM	PM	INSPECTION
		10.81930		25		20041501		PN	PM	INSPECTION
		10.81931		in his		20091201		1000	ЬM	CHECK VARIOUS COMPONENTS AND LUBRICATE
		10.81932				20071201			PM	INSPECTION
		10.81945		200 Est	D	20071201	- The state of the	FM	BLDG	INSPECT/REPAIR/PLUMBING-ETC.
	142tr * ' ' '	a e sues a unit		:	Who h d					
		W/O's for	Locat	ion B	RKLYN					
	COUNT					APPARATE APPARATE APPARATE				
	DUNDAL.	10, 21145		22 kg	111	20091001			INSFS	INSPECT AND CALIBRATE
				****				*** *** *** * * * * * ***		

		***************************************	FUNE INC	)1, (09 ) STATI				RKLYN DUM DCPO MCST			JF** as of 06:22:13 T ** on 01/04/10
7	Cost	Cost	Parent	Special Control of Con	WÜ)	TYPE		of the state of th	lalir-k	Craft	Short problem
)	Center	L. G.C.	WO	54	Sts	***************************************	Tasue				Description
		Id	Number				Date	1)3 5 6			
- , -:	FUMPING ST	DUNDAL	10.81146		25	\$15.5 \$15.5	20091001		PIVI	INGF6	TMSFECTION
			10.81147		25	p	20091001		Section 1	INSPS	INSPECTION
			10.81148		State State	p)	20091001		PM	INSPS	PURGE TRANSMITTER.
		Control of Control of State and Stat	10.81149		Just Just	£.)	72007100i	AND AND THE PARTY OF THE PARTY	PM	INSPS	INSPECT AND CALIBRATE
			10.81150		group good graft forth	£ -14	20091001		PM	11455	CLEAN/INSPECT/CALIBRATE
			10. 81151		son to	\$100	20091001		\$ 50 \$ 50 \$	1 NEF 5	CLEAN/INSPECT/CALIBRATE
	The state of the s	TO THE PROPERTY OF THE PROPERTY STATE COMMUNICATION	10.91152			F-2	20091001	**************************************	PM	INSPS	
			10.81153		25	P	20091001		[5] A]	INSPS	INSPECTION
			10.81154		Fire Lab	Fi	20071001		D.M	INSPS	INSPECTION
		· · · · · · · · · · · · · · · · · · ·	10.81155	access accessed of AMPANAPANANA AN	25	P	20071001		PM	INSPS	INSPECTION
			10.81156		party that party that forces week	F	20071001		PM	INSPS	INSPECT AND CLEAN
	THE STATE SECTIONS ASSESSED AS STATES ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED.		10.81810	-	30	41.7. E. of	20091001	20091204	h M	ELCPS	INSPECTION, (CONTROLS).
			10.91211		30	27	20071001	50041504	PM	ELCPS	INSPECT & CALIBRATE
			10.81212		30	\$77 No.	20071001	20071204	ΡM	for the first time.	INSPECT & CALIBRATE
			10.81213		30	13	20091001	20091204	PM	ELCPS	CHECK, BATTERIES& LIGHT
			10.51213		30	(1) (1)	20091001	20071204	PV	Fire Free Sort	CHECK, BATTERIESE LIGHT
			10.81214		30	10	20091001	20071008		ELCPS	INSPECT AND LUBRICATE
			10.81215		30		20071001	20071008	PM	ELCPS	INSPECT AND LUBRICATE
			10.91216		30	P	20071001	20071124	1214	ELCPS	INSPECT AND LUBRICATE
			10.81216		30		20091001	50041154	## IV	STORM	INSPECT AND LUBRICATE
			10.81217	^~~ ^***	30		20091001	20091124	D M	ELCPG	CHECK OPERATOIN.
			10.61218		30	P	20071001	20091129	PM	ELCHS	CHECK OFERATOIN.
			10.81219		30 55	\$-1 <sup>2</sup>	20091001	20091124	PM	ELCPS	INSPECT AND LUBRICATE
	1987 shift shift dahka mbaka Maanaa ahaanaanayaanaanaanayaanaanayaanaanaa yaasaana oo soo soo soo soo soo soo	CONTROL BOTTO CONTROL STOP AND CONTROL	10.81220	Market and the year of the segment person was a serious section.	30		20091001	20071123	PN	ELCPS	TEST AND INSPECT
			10.81221		4337 415		20091001	20071123	[3] [v]	ELCPS	TEST AND INSPECT
			10.81222		30		20091001	20091123	PM	ELCPS	TEST AND INSPECT
	· na avanyonarahiliharahahin ahamman manayaman manayaman amayaman		10.81223 10.81224	William of the section of the sectio	90 90		20091001		PM		TEST AND INSPECT
						\$70 \$70		20091123		ELCPS	TEST AND INSPECT
			10.81225 10.81226		30	F" (2)	20091001	20091123	D M	FLCPS	CLEAN AND INSPECT
	T. F. (Allestations in the contract of the con		10.01227	MV date. Militariyahina akan ada ar yayan bayyaniyin ya	30	F-7	20091001	20091015	py	ELCPS	CLEAN AND INSPECT
			10.91228		30	e e	20091001	20091015	ED IVI	ELCFS	CLEAN AND INSPECT
			19. 51225 10. 51227		30	r to	S0021001 S0021001	£1019009 £1019009	PM	ELCPE TICPE	CLEAN AND INSPECT
		MATTER MATERIAL ST.	10.91230	alter, allalativi kirka kaldala kaldan dalam dalam maga yap	30	£2	20091001	2009100B	PM	ELCPS	CLEAN AND INSPECT
			10.81231		30	£.;;	20091001	20091008	PM	ELCPS ELCPS	CLEAN AND INSPECT CLEAN AND INSPECT
			10. 81232		30	p	20071001	20091008	PM		CLEAN AND INSPECT
	TO SEE A A SECURITY OF A CARDINAL AS A SECURITY OF THE SECURIT	the control of the set for any section of the secti	10.81294	Continue of the statement of the party of manager	30	<u> </u>	20091001	20071008	PM	PM	INSPECT AND LUBRICATE
			10.81275		30	g	20091001	20091008	PM	PM	CHECK VARIOUS COMPONENTS AND LUBRICATE
			10. B1294		30	p	20091001	20091008	[5] [A]	PM	CHECK VARIOUS COMPONENTS AND LUBRICATE
		Mithelia da	10.81327		30	\$115 \$120	20091001	20071016	Ch	GRDS	CLEAN WET WELL.
			10.81389				20091102	20071118	PM	MCHP8	THEFTE TIME
			10.81384		ãŎ	\$*************************************	20091102	20071117	[3][5]	MCHP5	
		AND AND MAINTAIN AND COMMISSION OF THE PROPERTY OF THE PROPERT	10.61421		Read Post	\$55	620071106	come em non 8 em 1961 side si	PM	INSPS	INSPECT AND CALIBRATE
			10.81422		grass good gas bang gas say	27 Th	20091102		PM	INSPS	INSPECTION
			10.81423		end for		20091102		E) M	INSPS	PURGE TRANSMITTER.
			10.81424		prof. Let.		20071102		- FM	INSPS	INSPECT AND CALIBRATE
			10.01425		100 E.S	<u>,                                    </u>	20091102			INSPS	INSPECTION
			10.81426		grade garde		20091102		PM		INSPECTION

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ı	Cost	Cost	Parent	1000 A	W()					n Watr	2°°5, ± 1
	Center	Loc	MO	Suf	- wu - Sts	f Y to ES	WO Tabue	WO CmpIt		Code	Short problem  Description
		ison of the	Number	but let b	and his saf		Date	ritte a	1 14 14	See 8.7 8.8 80	L/ W # 1. 1
	PUMPING 5	T DUNDAL		and and a second with the second	Park Park Took	20 - C 20 - C	20071102	e e e e e e e e e e e e e e e e e e e	25 Page	100 100 100 100 100 100 100 100 100 100	INSPECT AND CLEAN
			10.81460		30	P	20091102	20091119	PM	BLDG	INSPECT/REPAIR/PLUMBING-ETC.
	7 / / MPM II IV / / / / MM MANA Advance is a consequence of the conseq		10.81461 10.81538		30		20091102	20091123	PM	BLDG	INSPECT AND REPAIR
			10.81539		30	p	20091102	70091130 	1914 DM	13 1/1	INSPECT AND LUGRICATE
			10.81540		30	P	50021105	20091130	PM	A STATE OF THE STA	INSPECT AND LUBRICATE
	W 43 MW d who we were a seek or to propose particle of the to		10.81541		30	12	120001105.	20071130	PM -	PM	INSPECT AND LUBRICATE INSPECT AND LUBRICATE
			10.81542		30	p	20091102	20071130	PM	PM	TEST AND LUBRICATE
			10.81543		ãÔ	E <sup>2</sup>	20091102	20071130	PM	PM .	TEST AND LUBRICATE
ne r ma enen	Mark whereastern and anti-property are posted and sour particularities of the size allegates as	**************************************	10.81544	THE PURE CONTROL OF THE PU	30	F	20091102	20071130	PH	PM	TEST AND LUERTOATE
			10.81545		30	(c)	20091102	20091130	m N	PM	TEST AND LUBRICATE
			10.81546		90	P	20091102	20091130	PN	PM	TEST AND LUBRICATE
ter desir	The second section of the second seco	e artist data deser siegen tedjamensjone japopenjopisch (All All Palabous) dat	10. 81547	construct arranges the migra a japaneses y copy on page of	30	R	20091102	20091130	DM -	DN	TEST AND LUBRICATE
			10.81548		90	A Chi	20091102	20091130	PM	PM	TEST AND LUBRICATE
			10.81549			p	20091102	20091130	PM	PM	TEST AND LUBRICATE
			10.81550		30	5.77	20091102	20091130	La la l	MA	INSPECT AND LUBRICATE
			10. 81551		30	100	20091102	20071130	PM	pp	INSPECT AND LUBRICATE
-1	PPT ANNEXES AND AND AND AREA FAIL CONSUMERS OF COMMUNICATION OF COMMUNICATION OF THE COMMUNIC		10.81552		30	F16	20071102	06116002	P 14	Pivi	INSPECT AND LUBRICATE
			10.81553		50	p)	20001102	20091130	PM	PM	INSPECT AND LUBRICATE
			10.81554		50	F	20091102	20091130	PM	PM	MONTHLY INSPECTION
	·		10.81555		30	[7] 	20091102	20091130	PM	PM	MONTHLY INSPECTION
			A St. Co. of the sure		30	12	20091102	20091130	PM	PN	INSPECT AND LUBE
					30	p	20071102	20091130	PM	PM	CLEAN AND LUBRICATE
			10.81558	en e	30		20091102	20091130	PM	PM	CLEAN AND LUBRICATE
			10.61559 10.81560		30	P	20071102		PM	L M	CLEAN AND LUBRICATE
			10.81561		30 30	P	20091102	20091130	PM	PM	INSPECT AND LUBRICATE
	The state of the s		10.81562		30			20091130	PM	PM	MONTHLY INSPECTION
			10. 81563		30	177	20071102			27 77	MONTHLY INSPECTION
			10.81548		30	derenda deserva	20091102		PM	PM PM	INSPECT AND LUBRICATE INSPECT AND LUBRICATE
			10.81564		30	i deter	20091105		PM	PM	INSPECTION.
			10.81565		30	1	20071102	20091130	PM	PM	INSPECT
			10.81566		30	þ	20091102		PM	PM	INSPECT AND LUBRICATE
		THE POINTS TO STOCK BOTH THE ACT OF STOCK POINTS AND	10.91557		30	- 13	20071102	20071130	PH	PM	INSPECT AND LUBRICATE
			10.81548		30	13	20091102	20091130	PM	PM	INSPECT AND LUBRICATE
			10.81569		90	þ	20091102	20091130	PM	24	INSPECT AND LUBRICATE
			10.81570		30	[5]	20091102	20091130	PN	PM	INSPECT TANK
			10.81571		30	gara.	20091102	20091130	PM	DM	CHECK VARIOUS COMPONENTS AND LUBRICATE
			10.81572		30	(C)	20091102		PM	PM	CHECK VARIOUS COMPONENTS AND LUBRICATE
			10.01573	the terretain the transfer of the terretain the second of	30	\$* \$	20091102	CELIPOOS	la la	- FM	GUARTERLY INSPECTION AND LUBRICATION
			10.81574		30	F2	20091102	20091130	PN	D M	OBSERVE OPERATION, LUBRICATION
out .			10.81575		30	f**}	20091102	20091130	PM	PM	DESERVE OPERATION, LUBRICATION
	The second secon	t of a destinative consideration absolute in the memory and super supergraphy,	10.81576		30	įώ	20091102	20071130	FM	PM	MONTFLY INSPECTION
			10.81577		and for	Service Fermion	20091102		PM	PM	MONTHLY INSPECTION
			10.81578		30	P	20091102	20091130	1214	PM	The first first for the first
			10.81656	recommend and a vertice and a medical and a man group year	John and	in the second se	20091102	he Administra I i successor experience de proposa de estado e de describir de estado d	PH	Fr. Law (in Ind (in)	REPLACE BATTERY
			10.81667		(2) E.,	F.)	20091102		PM	ELCPS	INSPECT AND LUBRICATE
			10.81668		the me	£3	20091102		PM	FLCPS	INSPECT AND LUBRICATE

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<u>C (</u>	ost enter	Cost	Parent WO	40 Suf	WO Sts	TYPE	45	WÜ			Short problem	
2,10	and the fact	II	Number	and his To	W to be		Issue Date	Omplt Date	1 4 0		Description	
12/	UMPING S	T DUNDAL	10.81569		Sent to 2	Section 1	20091102		D M	See Line Control Control	INSPECT AND LUBRICATE	
			10.81670		The said		20071102			ELCPS	INSPECT AND LUBRICATE	
	·		10.81671		77 to		20071102		py	EL.CPS	TEST AND INSPECT	
			10.81672		27 10		20091102		PF	ELCES	CHECK FLOAT SWITCH & LUBE MECHANICAL.	
			10.81673		Constant		20071102		PM	ELCPS	CHECK FLOAT SWITCH & LUBE MECHANICAL.	
	PARTERIA PARTERIA DE LA PARTE		10.81674 10.81675		#2.15 #2.15		<u> </u>		PM	ELCPS	CLEAN AND INSPECT	
			10.81676				20071102		PM	ELCPS ELCPS	CLEAN AND INSPECT	
			10.81677		file of my year		20091102		PM	ELCP8	CLEAN AND INSPECT	
			10.81678	·	See and		20071102		- PM	ELVEO ELCPS	CLEAN AND INSPECT	
			10.81679		(2) La	•	20091102		PN	ELCPS	CLEAN AND INSPECT	19
			10.81680		25		20071102		PM	ELCPS	CLEAN AND INSPECT	0.00
			10.81681	**************************************	200. 101		20091102	**************************************	- PM	TICPS	CLEAN AND INSPECT	
			10.81682		m E	£.)-	20091102			ELCPS	ANNUAL INSPECTION AND CLEANING	ľ
			10.8169		Z.S		20091102		PM	MLCF5	ANNUAL INSPECTION AND CLEANING	and the state of t
			10.81684		200 200 En. mil		20091102		PH	La La Ca F Sa	ANNUAL PANEL INSPECT.	
			10.91684		77 E		20091102		11/2	ELCFS	ANNUAL PANEL INSPECT.	S
			10.8/685		25		20091102		PM	ELCHS	CLEAN, INSPECT CONTROL	
			10.81585		The second		20071102		PM	ELCPS	CLEAN AND INSPECT	
			10.81486		Jang gan Little out Jang gan		20091102		BM	ELCPS	CLEAN AND INSPECT	
			10.81808		ses per pas - se		20091201	And we see a Proposity resources the second Australia of Antonional Australia	PM	ELCPS	CHECK OPERATOIN.	d de la company
			10.81809 10.81810		22.53		20091201		PM	ELCPS	INSPECT AND LUBRICATE	[3
			10.81811		25		20091201 20091201		PM PM	ELCPS	INSPECT AND LUBRICATE	
			10.81812		## 73 *** ##		<u>20091201</u>	A April A Tomas American Communication in the Assessment and Asses	PM	ELCPS	INSPECT AND LUBRICATE	
			10. 81813		San and San and		20091201		PM	ELCPS	INSPECT AND LUBRICATE	l.
			10.81814		a5		20091201		5 M		INSPECTION	4
·	A Control of Andrew Schools and American polynomics, Asymptotic Schools and American Schools and American Ameri		TO BIGIS		(m) tor (m) tor		20091201		PM		ANNUAL INSPECTION AND CLEANING	
			10.81816		and had		20091201		PM		ANNUAL INSPECTION AND CLEANING	14
			10.81817		And for the first from the first terms		20091201		PM		ANNUAL INSPECTION	4
			10.81818	. :	: CID	F	20091201		PM		ANNUAL INSPECTION	
			10.81819		porty Killy		20091201		PM	ELCPS	ANNUAL INSPECTION	- [5
٠.			10.81820		er in .		20091201		PM		ANNUAL INSPECTION	E
			10.81821		25		20091201		[2 [Y]	ELCPS	CLEAN, INSPECT CONTROL	5
			10.81853	*	And English		20091201		PM	INSPS	INSPECT AND CALIBRATE	5
			10.81854		25		20091201		PM		INSPECTION	[5 ]5
			10.81855				20091201		PM		PURGE TRANSMITTER.	5
			10.81856 10.81857				1051709		PM	INSPS	INSPECT AND CALIBRATE	5
			10.91858	***************************************			20091201 · · · · · · · · · · · · · · · · · · ·		PM		INSPECTION	6
			10.81857		en 19 22 G		50021501			INSFS	INSPECTION THERET AND CLEAN	6
			10.81912		to the same		20091201		E M	INSPS PM	INSPECT AND CLEAN INSPECT AND LUBE GATE	61  61
			10.81913		2007 1988 2007 1988 2007 1993		<u> 20071201                               </u>		1		FLUSH COOLING SYSTEM &CHANGE DIL	8
			10.81914.		Since out		20071201				CRANE GEAR BOX DIL LEVEL CHECK & LUBRIC	69
		Total	W/O's for	Locat	5 1 0 Ti - )	DUNDAL.	e consistent de la constant de la co					6
		COUNT					-					70

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			PUMPING	z Wishiid	L Lat Area		nith sair	.uoru m.o:	WUF	au woir	T ** on 01/04/10
	Cost	Cost	Parent			TYPE		And the second s			Short problem
3	Center	L.O.C	WO	944	Sts		Itaue	Cmplt	Typ	Code	Description
		**************************************	Number				Date	Date			
	PUMPING S	T EASTER	10.81132	landa landa dagan samanan sebangsanganyan salam sar sa sa r sa	30	P	20091001	20091124	PM	MCHPS	INSPECTION
			10.81138		30	p	20091001	20091117	PM	INSPS	CLEAN/INSPECT/CALIBRATE
			10.81139		30	p	20091001	20091117	10 14	INSPS	
		erent a respectablementalementalement es sus essen	10.91140	i deligiolistikoleen ja johtijaan jamuunun jamuu sitteen oliveen olive	30	P	20091001	20091117	PM	INGFG	
			10.81175		30	100	20091001	20091201	blal	For Low Lot	CHECK, BATTERIES& LIGHT
			10.81179		30		20091001	20091201	by kd	INGT	CHECK, BATTERIES& LIGHT
			10.81176		30		20091001	20091117	PM	ELCP9	INSPECT AND LUBRICATE
			10.81176		30		20091001	20091117	PM	INES F	INSPECT AND LUBRICATE
	**************************************		10.81177		30		20091001	20091117	PM	ELCP8	INSPECT AND LUBRICATE
			10.81177		30		20091001	20071117	DM	INST	INSPECT AND LUBRICATE
			10.81178		30		20091001	20091117	derty for the	FLCFS	INSPECT AND LUBRICATE
			10.61179		25		20091001	1007 Mart Auddrach S. a.S. anne geger i bygge enne gan sanner mann a ga vya sa san	S M	ELCPS	INSPECT AND LUBRICATE
			10.81180		30		20091001	20071202	PM	ELCPS	INSPECT AND LUBRICATE
			10.51252		30		20091001	20091008	PN	HA	CLEAN BOILER
			10.81253	18 districtiva di Santa di Sa	90		20091001	20091009	PM	HÁ	CLEAN BOILER
			10.81260		30		20091.001	20071107	PH	PM	INSPECT AND LUBRICATE.
			10.81264		30		20091001	20091109	FM	PM	INSPECT AND LUBRICATE.
	TO 10 AV 1 MINOR TO A STATE AND A SECURE AND A		10.81265		30		20091001	20091109	PN	PM	INSPECT AND LUBRICATE
			10.81266		30		20091001		PM	PM	INSPECT AND LUBRICATE.
			10.81267		30		20071001	20091109	PM	PM	INSPECT AND LUBRICATE.
			10.81268				20091001		PM	PM	INSPECT AND LUBRICATE.
			10.81269		100 pm		20091001	program for gran in its sections	12 M	PM	INSPECT AND LUBRICATE.
			10.81270		2507		20091001	20091109	PM	PM	INSPECT AND LUBRICATE.
~~~~			10.81271 10.81272		30		20091001	20091109	[# [7] #5 Kd	PM	INSPECT AND LUBRICATE
			10.81273		30 30		10071001		PM	P M	INSPECT AND LUBRICATE.
			10.81274		41 H 43 H		20091001	20091109	PM	PM	INSPECT AND LUBRICATE.
*********			10.61275		wit			20091109	PM	PM	INSPECT AND LUBRICATE.
			10. G1275		30			20091109			INSPECT AND LUBRICATE.
			10.81277		30 30		20071001	20091109		pM	INSPECT AND LUBRICATE.
*********			10.81278				20071001	20071107	PN	PM	OIL CHANGE
			10.01670 10.01677		30		50031001	20091109 ********************************	C M		OIL CHANGE
			10.81280		30		20091001	20091109	[5]4[ ] <sub>5</sub> , [4]	P M R M	DIL CHANGE CHANGE DIL
		V	10.81281		30		20091001	20071107	ly ly i	PM	CHANGE DIL
			10.81282		30		20091001	20091109	PM	is in	CLEAN AND LUBRICATE
			10.0100		30		20091001	20091109	15 M	PM	CHECK VARIOUS UNITS
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			10. 81885		20		20071001	20091109	PM	PM	CHANGE DIL AND FILTER.
			10. 81284		30		20071001	20091109		PM	CHECK VARIOUS COMPONENTS AND LUBRICATE
*****			10.51227		30		20091001	20091109	[2] [V]	PM	LUBRICATE
			10.81324		and the		20071001	कराव्य शहर क्या में इंस्त और फेर्स हैं		BLDG	EXTERMINATE LOCKER RM. LOWER LEVEL.
			10.01327		30		20091001	20091013	py	BLDG	COMPUTER PAPER PICK-UP
			10.81375		100 mm		20071102	The second secon	5 F 1	MCHPS	
			10.81976		State State .		20071102		[2] [v]	MCHPS	
			10.81377		25		20091102	·	PM	MCHPS	INSPECTION
			10.81378		25		20071102			MCHP9	INSPECTION
			10.81379		25		20091102		r iv		INSPECTION
			10.81388		30			20091112			CLEAN/INSPECT/CALIBRATE

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01/04/10 06:22:13 Total Issued W/O's Locations WOCOMPMSAL PAGE Oct. 01/109 - Dec. 31/109 \*\*BRKLYN DUNDAL EASTER JF\*\* as of 06:22:13 PUMPING STATIONS - PM only \*\*LOCPO MCST QUAD WSTFT \*\* on 01/04/10 Co Cost Cost Parent 410 WO TYPE WO MO Wrk Craft Short problem No Center W() Suf 545 Issua Cmplt Tup Code Description Number Id Date Date 11 PUMPING ST EASTER 10 81389 30 INSPS CLEAN/INSPECT/CALIBRATE 20091102 20091119 PW 10.81390 30 P 20091102 20091119 PM INSPS INSPECT/CLEAN/CALIBRATE 10.81391 30 F 20091102 20091119 PM INSPS INSPECT/CLEAN/CALIBRATE 30 8 20091102 20091119 PR INSPS CLEAN/INSPECT/CALIBRATE 10.81393 30 P 20091102 20091117 PM INSPS CLEAN/INSPECT/CALIBRATE 10.81393 30 P 20091102 20091117 PM PM CLEAN/INSPECT/CALIBRATE 10.81394 20091102 E0091118 PM INSPS CLEAN/INSPECT/CALIBRATE 10.81375 The second 20091102 py INSPS CLEAN/INSPECT/CALIBRATE 10.81376 25 12 20091102 014 INSPS CLEAN/INSPECT/CALIBRATE 10.81397 30 20091102 20091118 PM INSES CLEAN/INSECT/CALIBRATE 10.81398 20091102 20091118 PM 30 P INSPS CLEAN/INSPECT/CALIBRATE 10.81399 20091102 20091112 PM 30 P INSPS CLEAN/INSPECT/CALIBRATE 70 TF 10.81400 20091102 20091120 PM INSPS CLEAN/INSPECT/CALIBRATE 10.81401 30 P 20091102 20091120 PM INSPS INSPECT PRESSURE DEVICES 10.81402 20091102 20091117 PM INSPS INSPECTION 10. 91403 20091102 20091117 PM INSPECTION 27.63 10.81404 13 20091102 PM INSPS CLEAN AND INSPECT 10.81448 25 0 20091102 PM MA INSPECT & CLEAN UNIT 10.8(449 20091102 20091202 FM HA INSPECT VARIOUS UNITS 10.81453 the tank 20091102 BLDG EXTERMINATE LOCKER RM LOWER LEVEL. 10.01454 30 P 20091102 20091120 PM BLDG INSPECT/REPAIR/PLUMBING-ETC. 10.81455 MA ESTROOR SOLIES PM BLDG INSPECT AND REPAIR 10.81456 30 P 20071102 20071104 PM BLDG COMPUTER PAPER PICK-UP 10.81472 30 P 20091102 20091109 PM PM CHECK VARIOUS COMPONENTS AND LUBRICATIO 10.01473 PM CHECK VARIOUS COMPONENTS AND LUBRICATIO 10.81473 30 P 20091102 20091109 PM CHECK VARIOUS COMPONENTS AND LUBRICATIO 10.81474 20091102 20091109 PM 30 P PM CHECK VARIOUS COMPONENTS AND LUBRICATIO 20071102 20071109 PM 10.81475 30 PM CHECK VARIOUS COMPONENTS AND LUBRICATIO 10.81476 30 P 20091102 20091109 PM PH CHECK VARIOUS COMPONENTS AND LUBRICATIO 10. 31477 20091102 20091109 PM 30 P py CHECK VARIOUS COMPONENTS AND LUBRICATIO 10.81478 30 12 SOMATIOS SOMATION PM PM INSPECT AND LUBE 10.01478 30 F 20091102 20091109 PM INSPECT AND LUBE 10.81479 30 F 20091102 20091109 PM INSPECT AND LUBRICATE. 10.81460 MODITOR ROLLYON PM T2[V] INSPECT AND LUBRICATE 10.81481 30 P 20091102 20091109 PM INSPECT AND LUBRICATE.  $\bigcirc$ 10.81482 30 8 20091102 20091109 PM PM INSPECT AND LUBRICATE 10.81489 20091102 20091109 [2] VI INSPECT AND LUBRICATE 10.81484 30 P 20091102 20091109 PM PM INSPECT AND LUBRICATE.  $\bigcirc$ 10.81485 25 6 20071102 D M PM INSPECT AND LUBRICATE 10.81486 20091102 PH INSPECT AND LUBRICATE 10.81487 30 F 20091102 20091109 PM PM INSPECT AND LUBRICATE. 10.81488 30 Ç3 20091102 20091109 PM PM INSPECT AND LUBRICATE 10.81489 30 20091102 20091109 PM PM INSPECT AND LUBRICATE 10.81470 20091102 20091109 PM 30 PM INSPECT AND LUBRICATE 10.81491 20091102 20091109 PM 30 PM INSPECT AND LUBRICATE. 10.01492 30 20091102 M4 FOLIFOOS INSPECT AND LUBRICATE 10.01493 30 20091102 20091109 PM INSPECT AND LUBRICATE. 10.81494 30 F 20091102 20091109 PM CHECK VARIOUS COMPONENTS 

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01/04/10 06:22:13 Total Issued W/O's Locations: WOCOMPMSAL PAGE Oct. 01, 09 - Dec. 31, 09 \*\*BRKLYN DUNDAL EASTER JF\*\* as of 06:22:13 FUMPING STATIONS - PM only \*\*LOCPO MCST QUAD WSTFT \*\* on 01704/10 Co Cost Cost Parent WO WO TYPE WO WO Wrk Craft Short problem No Center WC) Suf Sts Issue Cmplt Tup Code Description 10 Number Date Date 11 PUMPING ST EASTER 10 BIASE 30 20091102 20091201 PM ELCRS CLEAN AND INSPECT 10.81652 30 P 20091102 20091201 PM ELCPS CLEAN AND INSPECT 10.81653 30 P 20091102 20091117 PM ELCPS INSPECT AND LUBRICATE OVERHEAD BRIDGE 30 P 10.91653 20091102 20091117 FM INST INSPECT AND LUBRICATE OVERHEAD BRIDGE 10.81654 30 F 20091102 20091201 PM ELCPS INSPECT AND LUBRICATE OVERHEAD HOIST 20091102 20091201 PM ELCPS INSPECT AND LUBRICATE 10.81655 30 P 10.01776 30 20071201 20071204 FM HA INSPECT AND CLEAN 30 P 10.01777 20091201 20091204 PM HA INSPECT AND CLEAN 10.81778 30 P 20091201 20091204 PM HA INSPECT AND CLEAN 10.81779 30 20091201 20091204 FM HA INSPECT AND CLEAN 10.81780 30 P 20091201 20091204 PM HA INSPECT AND CLEAN 10.81781 25 0 20091201 PM ELCPS INSPECT AND LUBRICATE (Z. 5.) 10.91792 20091201 G W ELCPS INSPECT AND LUBRICATE 20091201 PM ELCHS INSPECT AND LUBRICATE
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01/04/10 06:22:13 Total Issued W/O's Locations: WOCOMPMSAL PAGE 11 Oct. Ol. OP - Dec. 31. OP \*\*BRKLYN DUNDAL EASTER JF\*\* as of 06:22:13 FUMPING STATIONS - PM only \*\*LOCPO MOST QUAD WSTPT \*\* on 01/04/10 Co Cost Cost Parent WO WO TYPE WO WO Wrk Craft Short problem No Center W() SUP Sts Loc Issue Complt Typ Gode Description Number Date Date 11 PUMPING ST JF July gar July East 1667 10.81411 20091102 PM INSTS CLEAN/INSPECT/CALIBRATE 25 F 20091102 10.81412 PM INSPS CLEAN/INSPECT/CALIBRATE 10.81413 30 P 20091102 20091215 PM INSPS INSPECTION 10.01414 30 P 20091102 20091215 PM INSPS CLEAN/INSPECT/CALIBRATE 10.01415 grand INSPS INSPECTION 20091102 PM 10.81416 20091102 20091221 PM 30 P INSPS CLEAN AND INSPECT 10.81450 20041103 PM HA INSPECTION 10.01457 30 P 20091102 20091207 PM BLDG INSPECT/REPAIR/PLUMBING-ETC. 10.81458 30 P 20091102 20091123 PM BLDQ INSPECT AND REPAIR 10.81466 132 43 20091102 PM PENG RECOAT ROUP(FIBERGLASS FELT) 10.91529 30 P 20091102 20091203 PM PM CLEAN AND LUBRICATE 10.81529 30 P 20091102 20091203 PM PM CLEAN AND LUBRICATE 10.81530 30 Jar. 20091102 20091203 FM FM INSPECT AND LUBRICATE PUMP 10.91531 30 P 20091102 20091203 PM PM INSPECT AND LUBRICATE PUMP 10.81532 30 P 20091102 20091203 PM LUBRICATION AND CHECKS 10.81533 30 20091102 20091203 PM PM MONTHLY CHECKS 10.81534 30 P 20091102 20091203 PM PM CHECK OPERATION 10.81535 30 P 20091102 20091203 PM PM INSPECTION 10.81536 20091102 20091203 FM PM INSPECTION 10.81656 30 P 20091102 20091214 PM ELCPS CLEAN AND INSPECT 10.81657 as p 20091102 20091215 PM ELEC CHECK, BATTERIES& LIGHT 10.81658 20091102 20091214 PM ELCPS INSPECT AND LUBRICATE 20091102 20091214 PM 10.01659 30 P ELCPS INSPECT AND LUBRICATE 10.81660 25 P 20091102 20091216 PM ELCPS CHECK VARIOUS UNITS 10.61661 20091102 20091216 PM ELCPS CHECK VARIOUS UNITS 10.81790 20091201 20091216 PM ELCPS CHECK VARIOUS UNITS 10.01791 25 P 20091201 20091215 FM ELCPS CHECK VARIOUS UNITS 10.81792 er mi 20091201 FM ELCPS INSPECT AND LUBRICATE 10.81793 20091201 20091221 PM ELCPS INSPECT AND LUBRICATE 10.81794 25 p 20091201 ELCPS INSPECT AND LUBRICATE 21 10.81795 · Pred 20091201 20091216 FM ELCPS ANNUAL INSPECTION 10.81796 25 P 20071201 20071216 PM ELCPS ANNUAL INSPECTION 10.81797 25 P 20091201 20091216 PM ELCPS ANNUAL INSPECTION 10.81798 20091201 20091222 FM ELCPS CLEAN & INSPECT 10.81799 77 pm (2) 20091201 20091221 PM ELCPS CLEAN & INSPECT 10.61800 25 0 20091201 20091221 PM ELCPS CLEAN & INSPECT 10.81801 20091201 20091221 PM ELCRS CLEAN & INSPECT 20091201 20091215 PM 10.81802 25 6 ELCPS CLEAN & INSPECT 10.81803 25 p 20091201 20091215 PM ELCFS CLEAN & INSPECT 10.81804 20091201 20091222 PM ELCPS CLEAN & INSPECT 10.01805 25 6 20091201 20091215 PM ELCPS CLEAN & INSPECT 10.81806 Service State 1900 G ET 200 20091201 20091215 PM ELCPS CLEAN & INSPECT 10.91900 20091201 PM PM CLEAN AND LUBRICATE 10.81901 30 Fa 20091201 PM PM INSPECTION. 10.81902 25 P CHANGE OIL (REDUCER) 20071201 PM PM 10.81903 0.15 20091201 PM DM CLEAN, LUBRICATE 10.81904 25 8 20091201 INSPECT AND LUBRICATE CRANE 10.81905 25 P 20091201 PM PM INSPECT AND LUBE CRANE 

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		and the second of the second second of the second	10.81635	Andrews heatermannesses on higher and	en en en en		20091102	and the state of t	PM	PM	CHECK VARIOUS COMPONENTS AND LUBRICATE
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			10. 31144		17 L		20071001		- PM		INSPECTION
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			10.81207		30		20091001	20091130	PM	ELCPS	CLEAN, INSPECT CONNECTIONS
			10.91208		30	(D)	20091001	20091130	PM	ELCPS	CLEAN, INSPECT CONNECTIONS
	a contract of the second of the second of		10.81209		30	F)	20091001	20071130	- PM		CLEAN INSPECT CONNECTIONS
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lo Cost		Sost	Parent	WO		TYPE		WC	Wr k	Craft	Short problem
do Cente	r I	O C	W(C)	Suf	Sts		Issue	CmpIt			Description
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<b>)</b>	Oct. 01, '09 - Dec. 31, '09 **BRKLYN DUNDAL EASTER JF** as of 06:22:13	(1) (1) (8)
	PUMPING STATIONS - PM only **LOCPO MCST QUAD WSTPT ** on 01/04/10  Co_Cost Cost Parent WO WO TYPE WO WO Wrk Craft Short problem No Center Loc WO Suf Sts Issue Cmplt Typ Code Description Id Number Date Date	
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T MANAGE made a Andréada i manademand management paga pagangan	10.8135		951000	FACILITY, DRIMENLYN PUNPING	30 4	4 light, see heith raynor	JCN	BLDG	20091023	20091022	
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				PUMP, SEVAGE \$1		A.A.T.	JDD	ELCPS	20091210	20090506	
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	10.8111				30 4	REQ. BY J. MARRICK 6-9752			20091018	20070021	
	10.8133	}	941104	HUMP, SEMAGE #4	25 4	ostialper 84972		ELCES	mand of a supply of	20091005	
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	10.8134			PUMP, VACUUM \$1	30 4	HOOKS 6-9701	Constitution of the consti	nchps	20091124	20091013	
	10.8194			PUMP, VACUUM #2	30 4	HOURS 6-9701	Mil	MCHPS	20071124	20091013	
	10.5134		741000	FACILITY, DUNDALK FUMFING	30 4	screen room see chris 3964972	CS	14.06	2009101.6	20091014	
	10.6135					REQ. BY J WARUCK 6-9752	JCH		20091023		
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	10.01369	2	943804	ACTUATOR, 84 SCREEN EFFL S	25 4	REQ. BY N. HUHKS 69701	Section 2	HCHPS	446744444	20071027	
	10.01369	. i	949804	ACTUATOR, #4 SCREEN EFFL S	25 4	KER, DY II, HOOKS 69701	Service Service Service	ELCPS		20091027	
	10.01720		943702	GATE, 82 SCREEN EFFL. SLIDE	30 . 4	6770	III		20091105	20091105	
	10.81729	1	945101	GENERATUR, EHERGENCY SET	25 4	KET REPAIR ANTIFREEZE LEAK RED, BY M. HUDKS 69701	144	ELCPS		20091106	
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	10.01736					\$ 89701	WH.		20091117	20091118	
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01/04/10 06: 22: 20 Completed/Issued N/O Report for Oct. 1, '09 - Dec. 31, '09 WICINFSSAL PAGE 2 CM's A MID's Locations: DRXLYX DUMDAL EASTER as of 01/04/10 JE LOCPE NEST RUAD ISTPT Fumping Station Full Problem Craft WO WW Shtdun 11/11 Machine Machine Sts Prty Description Reg. Code CHAIt Issue Class No. Area Loc. Rusber Mumber Description Code Bu Date Date 11 PUMPING ST DUNDAL 10.81760 941000 FACILITY,DUNDALK PUNPING 25 4 stielperc 64972 CS ELCPS 20091125 10.81972 941101 FUMP SEVAGE \$1 30 4 ostielper 64972 CS MCHFS 20091208 20091,207 10.81981 944601 FUMP, VACUUM &1 30 4 stielper-64972 CS MCHPS 20091211 20091210 10.81990 1 944601 FUMP VACUUM #1 25 4 stielper 649762 CS ELCES 20091215 10.81990 2 944601 FUTF VACUUM \$1 25 4 stielper 649762 CS ACHES 20091215 944701 METOR, VACUUM FUMP #1 25 4 ostiolper 74972 10.81995 CS ELCPS 20091216 Location DUNDAL: COUNT 45 EASTER 09. 82632 910029 RUBBLETRUE 30 4 REG BY R DARTINJR RBJ INSPS 20091020 20090212 09.82633 910029 BURGLETKUL 30 4 RER BY R BAKTON JR KBJ ELCPS 20091022 20090212 09.03/104 916905 VALUE, CU-S CATE (VAULT \$3) 30 4 OF A STEN HUT, REA, BY M, HIDRS 69702 MCHFS 20091015 20090326 09.83580 919023 MUNER, KIDING GRAVELYCIK 3 30 4 ostielper 64972 20090504 CS MCHPS 20091016 -10.80358 2 915615 CONDITIONER AIR(PUBLIKSNUS 30 4 OPENING ostielper 64972 CS PENG 20091119 20090803 10.80716 915417 AIN HANDLING UNIT AND CHI 30 4 estielperc64972 (5 PENG 20091215 20090828 913101 SCREEN, BAR (MERTH) 30 4 ostielper64972 10.81022 83 IMSPS 20091006 20090911 10.81115 1 915415 HEATER UNIT #3(3HD FLOOR) 30 4 estiminer 64972 CS 20091007 116 20090917 10.81115 2 915415 HEATER UKIT #363KV FLUUR) 30 4 ostielper 64972 US. PENG 20091215 20090917 10, 81123 913101 SCREEN, BAR (MERTH) 30 30 cstielper 64972 63 INSPS 20091228 20090921 10.81126 917301 CHARE,ORIDEE(15 TOH)(PUMP 30 4 estielper 64972 03 PENG 20091028 20090923 10.81347 910004 RECORDEN/TOTALIZER FLOW 30 4 CSTIELPER 64972 IMSPS 20091016 20091019 10.81350 910009 TRANSMITTER, PRESSURE 30 4 ostielper 64972 CS INSPS 20091020 20091021 10.81351 919034 DUMPSTER (NEWTH) 30 30 ostielper 64972 CS MCHFB 20091028 20091021 10.81359 1 911105 PUMP, SENAGE #5 30 4 stielper 64972 30 4 stielper 64972 30 4 ostielper 64972 CS MCHFB 20091218 20091023 10.01359 2 911105 FUMP SEMAGE #5 03 MCHPS 20091.023 10.81360 911102 PUMP, SENAGE \$2 MCHPS 20091026 20091023 CS. 916902 VALVE, GN-2 GATE (VALLT"A") 30 4 cstielper 64972 10.81361 63 MCHPS 20091021 20091023 10, 81367 911000 FACILITY, EASTERN AVENUE 25 30 cone valve is possibly a sewage leak. Sullivan 6-4972 US PENG 20091028 10.81717 911000 FACILITY, EASTERN AVENUE 25 4 (streetscapeJostielper 64972 CS ELCPS 20091103 10.81724 1 915413 HEATER URIT #1 30 4 ostielper 64972 CS HA 20091106 20091105 10.01724 2 915413 HEATER, UNIT MI 25 4 ostielper 64072 CS PENG 20091105 911202 MOTOR SEMAGE FUMP #2 30 4 requester r slayton 6-9752 10.81728 RLS ELCPS 20091117 20091110 10, 81729 911000 FACILITY EASTERN AVENUE 25 4 ostielmer64972 C\$ ELCPS 20091110 10.81730 911000 FACILITY, EASTERN AVENUE 25 4 stielpero 84972 CS BLDG 20091110 10.81731 912602 FUMP, SEAL WATER #2 30 30 ostielper 64972 CS MCHPS 20091112 20091110 10.01732 911000 FACILITY LASTERN AVENUE 30 4 Caticles 64972 CS BLDG 20091201 20091110 10.81733 912603 FUMP, SEAL WATER 83 30 4 ostielper 64972 CS MCHPS 20091113 20091113 10.81739 911000 FACILITY EASTERN AVENUE 30 4 ostielemer 64972 CS ELCPS 20091118 20091116 SLIDOO FACILITY EASTERN AVENUE 25 30 see chris 64972 10.81743 CS BLDG 20091118 10.81744 911000 FACILITY, FASTERN AVENUE 30 30 see chris 64972 CS MCHFB 20091119 20091118 911000 FACILITY, EASTERN AVENUE 25 4 LENEL INTERFACE SYSTEM ETC AS PROPOSED. 10.81745 TG PENG 20091118 10.81748 918902 GLOWER LEAF HAND HELD GAS 25 4 stielper-64972 CS MONES 20091123 10.81749 911000 FACILITY EASTERN AWERNE 30 4 met-mell-see chris 64972 CS NOWER 20071123 20071123 10.81753 PILOGO FACILITY EASTERN AVENUE 25 4 REAL BY J. MARRICK 6-9752 JCN ELCPS 20091123 10.81755 910005 RECORDER/TOTALIZER FLOW 30 4 stielper 64972 CS INSPS 20091124 20091123 10.81759 911000 FACILITY, EASTERN AVENUE 30 4 REQ. BY J. HARDCK 6-9752 JCN ELCPS 20091202 20091124 10.81764 719017 COMBUSTIBLE GAS ALAKM 25 4 NEG BY R BARTON ROJ INSPS 20091130 

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### **APPENDIX 4**

# SUMMARY OF REPORTED OVERFLOWS

#### **SSO No.67**

<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
10/17/09 – 10/18/09	Flow Meter in Place	3.21
10/28/09	Flow Meter in Place	3.10
11/24/09	Flow Meter in Place	1.34
12/3/09	Flow Meter in Place	1.79
12/9/09	Flow Meter in Place	1.75
12/13/09	Flow Meter in Place	1.00
12/25/09 – 12/27/09	Flow Meter in Place	2.35

#### SSO No. 72

<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
10/17/09 – 10/18/09	Flow Meter in Place	3.21
10/28/09	Flow Meter in Place	3.10
11/24/09	Flow Meter in Place	1.34
12/3/09	Flow Meter in Place	1.79



12/9/09	Flow Meter in Place	1.75
12/13/09	Flow Meter in Place	1.00
12/25/09 — 12/27/09	Flow Meter in Place	2.35

#### SSO No. 132

<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
10/28/09	Flow Meter in Place	1.87
12/5/09	Flow Meter in Place	1.61
12/26/09	Flow Meter in Place	1.77

#### SSO No. 134

<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
10/18/09	Flow Meter in Place	2.45
10/28/09	Flow Meter in Place	1.87
12/3/09	Flow Meter in Place	1.07



12/9/09	Flow Meter in Place	1.61
12/13/09	Flow Meter in Place	0.79
12/25/09 – 12/27/09	Flow Meter in Place	1.77

#### **SSO No. 135**

<u>Date</u> <u>Surcharge Depth (in)\*\*</u> <u>Rainfall (in)</u>

None Reported

#### **SSO No. 137**

<u>Date</u>	Surcharge Depth (in)**	Rainfall (in)
10/18/09	Flow Meter in Place	3.22
10/24/09	Flow Meter in Place	0.72
10/28/09	Flow Meter in Place	3.10
12/3/09	Flow Meter in Place	1.07
12/9/09	Flow Meter in Place	1.77
12/13/09	Flow Meter in Place	0.69

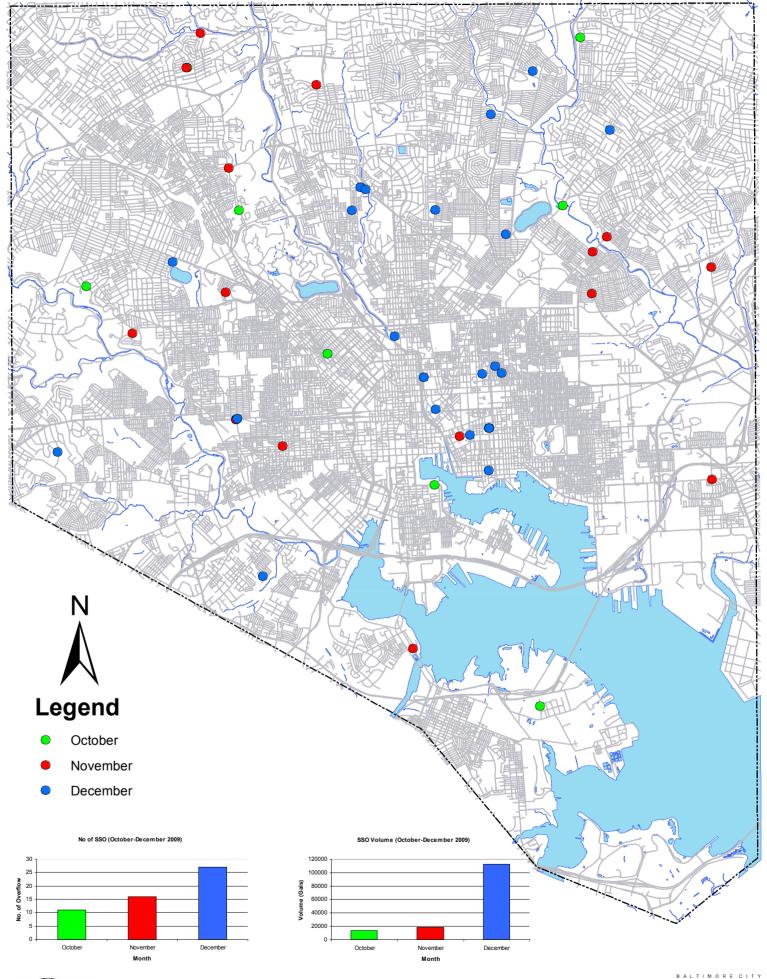


12/25/09 – 12/27/09	Flow Me	1.62						
SSO No. 138								
<u>Date</u>	Surcharge	Depth (in)**	Rainfall (in)					
12/26/09	Flow Me	ter in Place	1.77					
	SSO No. 139							
<u>Date</u>	Surcharge	Depth (in)**	Rainfall (in)					
10/28/09	Flow Me	ter in Place	1.87					
	Pumping Station Overflows							
Pumping Station	Volume Loss							
Pumping Station	<u>Date</u>	(gal)	Rainfall (in)					
Clinton St – Grinder Pump	10/11/09	90						
Jones Falls PS	10/28/09	800,000	3.10					



Waste Water Treatment Plant Overflows							
<u>Volume Loss</u>							
<u>WWTP</u>	WWTP Date (gal) Rainfall (in)						
None Reported							









#### City of Baltimore Un-Permitted Sanitary Sewer Overflows For Calendar Quarter Ending December 31, 2009

Date	Estimated Volume (Gal)	Cause	Cause Rain Receiving Waters		Location	Zip
10/2/2009	600	Rags & Grease	0.07	Inner Harbor	402 Key Highway	2123
10/4/2009	80	Rags, Trash & Grease	0.00	Patapsco	2501 W. Franklin Street	2122
10/17/2009	78	Rags & Heavy Rain	1.62	Jones Falls	3700 Greenspring Ave	2121
10/18/2009	1,725	Rags & Grease	0.67	Jones Falls	1800 Etting Street	2121
10/23/2009	795	Rags, Roots & Grease	0.08	Herring Run	6514 Pioneer Drive	2121
10/25/2009	900	Rags, Roots & Grease	0.76	Herring Run	3900 Harford Road	2121
10/28/2009	600	Rags & Grease	1.02	Gwynns Falls	2900 Wynham Road	2121
10/28/2009	7,500	Infilt/Inflow (Surcharged Line)	1.02	Inner Harbor	10 N. Bethel Street	2123
10/28/2009	1,050	Infilt/Inflow (Surcharged Line)	1.02	Jones Falls	401 E. Eager Street	2120
10/29/2009	324	Rags	0.00	Inner Harbor	3220 Sun Street	2122
10/30/2009	344	Debris	0.02	Jones Falls	s 2409 Everton Road	

#### City of Baltimore Un-Permitted Sanitary Sewer Overflows For Calendar Quarter Ending December 31, 2009

Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
11/1/2009	Evidence of Overflow	Grease	0.34	Gwynns Falls	2501 W. Franklin St	21223
11/3/2009	760	Rags	0.00	Inner Harbor	1800 W. Baltimore St	21223
11/8/2009	360	Rags & Roots	0.00	Herring Run	2310 Mayfield Ave	21213
11/12/2009	3000	Rags & Grease	0.38	Patapsco	3100 S. Hanover St	21225
11/13/2009	2,400	Pipe Break	0.33	Jones Falls	Cross Country & Kelly Ave	21209
11/14/2009	900	Rags & Grease	0.07	Jones Falls	2411 Everton Road	21209
11/17/2009	3,600	Rags & Roots	0.00	Herring Run	4200 Belair Road	21206
11/17/2009	825	Rags & Grease	0.00	Jones Falls	4300 Greenspring Ave	21209
11/20/2009	360	Rags, Roots, & Grease	0.20	Herring Run	3700 Belair Road	21213
11/20/2009	1,200	Rags & Grease	0.20	Herring Run	5621 Frankford Ave	21206
11/21/2009	425	Roots	0.00	Jones Falls	115 Deepdene Rd	21210
11/24/2009	100	Rags & Grease	0.77	Herring Run	3637 Erdman Avenue	21213
11/25/2009	965	Rags & Grease	0.19	Inner Harbor	30 Horseradish Lane	21202
11/26/2009	1,260	Rags & Grease	0.01	Inner Harbor	1100 Gusryan St	21224
11/26/2009	710	Rags	0.01	Gwynns Falls	3100 Tioga Parkway	21215
11/30/2009	1,200	Rags & Roots	0.20	Gwynns Falls	3709 Chesholm Road	21216

#### City of Baltimore Un-Permitted Sanitary Sewer Overflows For Calendar Quarter Ending December 31, 2009

Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
12/1/2009	51	Rags & Grease	N/A	Inner Harbor	2500 W. Franklin Street	21223
12/1/2009	2,250	Pipe Break	N/A	Inner Harbor	1605 Aliceanna Street	21231
12/4/2009	279	Debris	N/A	Inner Harbor	1000 N. Bond Street	21205
12/7/2009	900	Rags	N/A	Herring Run	4803 Roberton Ave	21206
12/8/2009	2,270	Debris	N/A	Jones Falls	1 Edgevale Road	21210
12/9/2009	16,500	Heavy Rain	N/A	Inner Harbor	1820 E. Eager Street	21205
12/9/2009	9,000	Heavy Rain	N/A	Inner Harbor	1 N. Bethel Street	21231
12/9/2009	12,375	Heavy Rain	N/A	Inner Harbor	1730 E. Chase Street	21213
12/9/2009	42,980	Heavy Rain	N/A	Jones Falls	401 Eager Street	21202
12/9/2009	12,850	Heavy Rain	N/A	Jones Falls	1700 Falls Road	21201
12/9/2009	3,600	Roots	N/A	Inner Harbor	1300 E. Lombard Street	21202
12/12/2009	240	Roots	N/A	Jones Falls	641 W. University Pkway	21210
12/13/2009	300	Rags, Roots & Grease	N/A	I/A Jones Falls 500 W 40th Street		21210
12/17/2009	240	Rags & Grease	Rags & Grease N/A Jones F		949 Hillen Street	21202
12/17/2009	1,290	Rags, Roots & Grease	N/A	Gwynns Falls	403 Old Orchard Road	21229
12/17/2009	180	Rags	N/A	Jones Falls	3700 Keswick Road	21211
12/18/2009	300	Roots & Grease	N/A	Jones Falls	501 W 40th Street	21210
12/22/2009	840	Rags, Roots & Grease	N/A	Jones Falls	501 W. University Pkway	21210
12/22/2009	Evidence of Overflow	Trash	N/A	Gwynns Falls	3308 N. Hilton Street	21215
12/22/2009	1,967	Debris	N/A	Inner Harbor	2142 Parksley Ave	21230
12/22/2009	720	Rags, Trash & Grease	N/A	Herring Run	1658 Ramblewood Road	21239
12/26/2009	3,000	Heavy Rain	N/A	Inner Harbor	1 N. Bethel Street	21231
12/27/2009	35	Rags, Roots & Grease	N/A	Herring Run	1805 E 33rd Street	21218
12/27/2009	15	Rags & Grease	N/A	Herring Run	5103 Harford Road	21214
12/27/2009	45	Rags & Roots	N/A	Herring Run	5200 Kelway Road	21239
12/28/2009	25	Rags & Grease	N/A	Herring Run	3619 Old York Road	21218
12/28/2009	290	Rags & Grease	N/A	Inner Harbor	2500 W. Franklin Street	21223

#### Notes:

- 1. Unknown Quantity When DPW visited the site, the problem had already subsided, but the source of discharge was evident.
- 2. Traces of sewage were evident but SSO had subsided prior to arrival at the site.
- 3. N/A- Not Available (December Rain Gauge data not available at time of this report.)



#### **SDUO Tracking List**

#### Updated through December 31, 2009

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution	Duration (Days)	Est. Quantity of Discharge (gallons)(5)	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	Not available	Series of dye and ammonia testing and CCTV inspections.	City to coordinate with Property Manager to access site and perform ammonia test on cleanout of roof drain.
Priority#2		Originally Gwynns Run 2325 Hollins Street	21233	Gwynns Falls	5/19/2009	529	Not available	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	Not available	Dye and ammonia testing and cleaned line prior to CCTV inspections but to date defect could not be identified. CIPP lined sewer, but testing indicated no resolution.	City to perform further site investigation and testing.
2	4/11/2007	6225 York Rd behind Walker Mews Apartment Building	21212	Herring Run	Not Resolved	On-going	Not available	Dye and ammonia testing and CCTV inspections performed prior to CIPP lining. CIPP lined sewer, but testing indicated no resolution.	City to perform further site investigation and testing.
3	2/21/2006	Originally Coldspring & Greenspring 4301 Pimlico Rd. (and Loyola Northway)	21215	Jones Falls	2/24/2009	1,099	Not available	Dye and ammonia testing and CCTV inspections performed prior to CIPP lining.	RESOLVED
4	8/2/2006	508 St. Paul Place	21202	Jones Falls	Not Resolved	On-going	Not available	Dye and ammonia testing and CCTV inspections performed but to date defects could not be identified. Source of sewage infiltration is unknown. On call contractor excavated pipe and performed dye tests of private properties at 9 W. Hamilton which appears to be a direct connect to storm drain.	Contractor to re-connect property at 9 W. Hamilton St to the public sewer.
5	12/14/2006	Guilford Ave & Eager St.	21202	Jones Falls	Not Resolved	On-going	Not available	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 pipe. Grouted manhole confirmatory testing showed SDUO not resolved.	Additional grouting of manhole and follow-up confirmatory testing to be performed.
6	11/7/2007	Wyndhurst Ave. west of Lawndale Ave	21210	Stony Run	8/25/2008	292	Not available	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	Not available	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	Not Resolved	On-going	Not available	Series of dye and ammonia testing performed and CCTV inspections and point repairs performed at two known sources, namely (2325 Hollins Street refer to 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.
9	10/15/2003	Mill Race Road, Woodberry	21211	Jones Falls	11/4/2009	2209	Not available	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 Occurrence	Location	Zip Code	Stream Affected	Date of Resolution	Duration (Days)	Est. Quantity of Discharge (gallons)(5)	Measures taken to identify Source or Resolve	Future/Planned Work
10	4/17/2007	Mannasota Ave 65ft South of Nicholas Ave	21206	Herring Run	Not Resolved	On-going	Not available	Series of dye and ammonia testing performed and cleaning of pipe prior to CCTV inspections. Further investigations required.	Re-direct flow to a new manhole to be built upon existing sanitary sewer.
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	Not available	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	Not available	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	9/15/2009	1454	Not available	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	Not available	Series of dye and ammonia testing and CCTV inspections and CIPP lining performed. The Sewer line was capped and rerouted to the sewer manhole at the Art Museum. Confirmatory testing indicate high ammonia reading still per	Coordinate with Baltimore City Housing Department to address this issue.
15	8/29/2007	4029 Fairview Ave.	21216	Gwynns Falls	Not Resolved	On-going	Not available	Series of dye and ammonia testing and CCTV inspections performed. Based on field investigations the problem is on the private property lines. City Housing issued a violation notice to property owner.	City to clean roots on main line and home owner to connect to mainline. City Housing to forward issue to their Compliance dept. for further actions as necessary.
16	4/4/2005	Across from 1212 Seminole Ave.	21229	Gwynns Falls	5/21/2008	1,143	Not available	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	Not available	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	Not available	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	Not available	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	Not available	Series of dye and ammonia testing and CCTV inspections performed. Based on field investigations the problem is through the private property lines.	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	Not available	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	Not available	Repair has been completed, and has stopped sewage leakage into stream.	RESOLVED
23	12/17/2007	Lazear Rd, 1600 ft from Franklintown Rd.	21229	Gwynns Falls	1/11/2008	25	Not available	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	Duration (Days)	Est. Quantity of Discharge (gallons)(5)	Measures taken to identify Source or Resolve	Future/Planned Work
24	9/1/2004	Collins Ave (end of the 500 block)	21229	Gwynns Falls	Not Resolved	On-going	Not available	A series of dye and ammonia testing and CCTV inspections performed. A main line choke was relieved but additional access point required for further investigation	Prepare sketch to install additional manholes to allow for CCTV inspections. The recommended resolution will be determined depending on problem identified.
25	11/30/2006	Cross Country Blvd.& Dale Rd.	21209	Jones Falls	3/10/2009	831	Not available	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	Not available	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	Not available	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	Not available	A series of dye and ammonia testing and CCTV inspections performed. Three SD direct connections were re-connected to parallel sewers. Follow-up testing on 10/21/09 showed no resolution. Additional field investigation required.	City to disconnect another SD direct connect and reconnect to parallel sewer and install new SD manhole for future maintenance. Confirmatory testing to follow.
29	7/15/2004	31st & Charles 24" VCP- Collapsed Pipe	21218	Inner Harbor	9/21/2009	1891	Not available	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	Not Resolved	On-going	Not available	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. Follow-up testing on 10/21/09 showed SDUO not resolved.	City to perform additional investigation of the site to develop an alternative solution.
31	9/10/2008	Cemetery, Pulaski Hwy. at Dean Street	21224	NW Harbor	10/11/2009	395	Not available	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 10/11/09.	RESOLVED
32	5/19/2009	4016-4018 Rogers Ave Rogers Post Apartments	21207	Gwynns Falls	Not Resolved	On-going	Not available	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.
33	6/25/2009	Cross Country Blvd & Crest Rd.	21209	Jones Falls	Not Resolved	On-going	Not available	A series of dye and ammonia testing and CCTV inspections performed.	City to perform additional investigation of the site prior to development of a resolution.
34	7/17/2009	Pall Mall Rd & Oswego Ave	21215	Jones Falls	Not Resolved	On-going	Not available	A series of dye and ammonia testing have been performed determined that there is direct contact from 2558 Oswego Ave. City Housing issued a violation notice.	Coordinate with Baltimore City Housing Department to address this issue. City Housing to forward issue to their Compliance dept. for further actions as necessary.
35	8/19/2009	Eager St 24" Storm Drain feeding into Guilford Ave	21202	Jones Falls	Not Resolved	On-going	Not available	A series of dye and ammonia testing and CCTV inspections performed. Have been unable to identify the source.	City to perform additional investigation of the site prior to development of a resolution.
36	8/20/2009	Carlowe Road @ Upland Apartments	21210	Jones Falls	Not Resolved	On-going	Not available	Completed ammonia testing and CCTV Inspection. Located a possible direct connect from the Apartment bldg to the sewer line.	Coordinate with Baltimore City Housing Department to access the Apartment Bldg to perform dye testing.

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution	Duration (Days)	Est. Quantity of Discharge (gallons)(5)	Measures taken to identify Source or Resolve	Future/Planned Work
37	11/6/2009	Lakewood Ave & Madison St (66" Storm Drain)	21205	Inner Harbor	Not Resolved	On-going	Not available	Verified by ammonia testing that sewer water was draining from under drain pipes connecting to the 66" Storm Drain.	City to complete further field investigation to determine method of repair.
38	11/6/2009	3302 Esther Place (inside 54"storm drain)	21212	Inner Harbor	Not Resolved	On-going	Not available		City to perform additional investigation of the site prior to development of a resolution.
39	12/2/2009	6237 York Rd @ Lake-Walker Park	21212	Herring Run	Not Resolved	On-going	Not available	Verified by ammonia testing that sewer water was infiltrating into parallel storm drain. Located crack in Storm drain	Consultant to develop plan to detail limits of CIPP Lining of parallel sanitary sewer line.

Site is Resolved & Confirmed by Testing

#### SDUO Summary (06-30-09):

- 1. Total SDUO Sites: 41 (Including 3 new sites in the last quarter)
- 2. Total SDUO Sites Resolved: 20 (49% Complete)
- 3. Total SDUO on Private Property: 8 (2 Private Property Site Resolved)
- 4. Total SDUO Sites Open: 21 (51% Open)
  5. Quantity of discharge cannot be finalized since MDE and EPA are presently reviewing and commenting on the City's proposed SDUO Quantification Methodology/Protocol, which was submitted to MDE/EPA for approval on August 9, 2009. Received comments from MDE/EPA