

Annual Report on Compliance

City of Bangor, Maine

Pursuant to the requirements of
United States and State of Maine v. City of Bangor Consent Decree
Civil Action No. 1:15-cv-00350-NT

January 31, 2018



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Certification Statement

City of Bangor, Maine

I certify under penalty of law that this document and all attachments were 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 inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

By: 
Andrew Rudzinski
Director of Water Quality

Date: 1-30-18

I. Introduction

The City of Bangor (the “City” or “Bangor”) is pleased to submit this Annual Report on Compliance, pursuant to the requirements of the *United States and State of Maine v. City of Bangor Consent Decree*, Civil Action No. 1:15-cv-00350-NT, entered on November 13, 2015 (the “Consent Decree”), for the reporting period beginning on January 1, 2017, and ending on December 31, 2017.

II. Status of Compliance

A. Submittals Required by the Consent Decree during the Reporting Period

<u>Date Submitted</u>	<u>Deliverable</u>
January 31, 2017	Annual Report on Compliance for calendar year 2016
January 31, 2017	SSES Phase II Report
January 31, 2017	SSES Phase III Statement of Work
January 31, 2017	Long Term Control Plan
February 28, 2017	Annual CSO Report for calendar year 2016
July 1, 2017	GIS Deliverable (per Par. 9.a of the Consent Decree)
September 15, 2017	MS4 Permit Year 4 Report, 2013-2018 Permit Cycle (per Par. 10 of the Consent Decree)
Various	ADS Flow Monitoring Reports, within 10 days of the date of receipt of the report by the City (per Par. 22 of the Consent Decree)

B. Identification of any Non-Compliance

There were no incidences of non-compliance with the requirements of the Consent Decree were identified for the 2017 reporting period.

III. Compliance Activities

A. Measures Taken to Reduce CSO and SSO Volumes

1. Capital Improvement Projects (CIP)

French, State and Exchange Street Utility Upgrade Project (Kenduskeag East)

Designed in 2017, work is currently underway to replace approximately 1900 linear feet (LF) of failing brick sewer with new PVC sanitary sewer. Project consists of separating approximately 900 LF of combined sewer and installing 900 LF of new storm drain. The project also includes installing new catch basins and sanitary manholes, service laterals, new water main, hydrants, and services, and new communication conduit along approximately 1900 LF on French, State and Exchange

Street, along with removing and resetting curbing, bricks, trench paving, surface restoration, and other incidental work.

13th to 14th Street Storm Drain Project (Kenduskeag West)

Designed and constructed in 2017, work consisted of replacing approximately 1000 LF of damaged storm drain with new HDPE pipe as well as installing 4 new catch basins and separating 3 catch basins from the combined sewer system on 13th Street.

Hammond Street Sewer Project Phase II (Kenduskeag West)

During the construction year of 2017, on the Hammond Street Phase II sewer project, the S. E. MacMillan Company installed 720 LF of storm drain pipe, 1284 LF of sewer pipe and 191 vertical feet of pre-cast sewer and storm drain structures.

Cured in Place Pipe Sewer Liner Project (City Wide)

During the construction season of 2017, approximately 1700 LF of various sized sewer lines were reconstructed with the cured in place pipe liner (CIPP) process. This process allowed the City to quickly fix multiple sewer lines with minimal disturbance to surrounding areas.

Broad/Independent Street Stormwater Project

Constructed in the summer of 2017, the project consisted of separating an existing stormwater system that starts at the Bangor PD parking lot and drains down to Independent Street and then reenters the City's combined system near Broad Street. Approximately 450 linear feet of new separated storm drain was installed and rerouted across Independent Street to Broad Street and outlets into the Kenduskeag Stream.

2. Weir and Regulator Adjustments

No weirs or regulators were adjusted during the reporting period.

3. Other

- Began the Sewer System Evaluation Survey (SSES) in Carr Brook Subsection as described in the Section V (SSES) of the report.
- Continued clearing cross-country sewer easement areas. Cleared cross-country easements have been maintained.
- Performed visual inspections of the cross-country sewer easements in March 2017 and September-October 2017 timeframes.
- Inspected the Kenduskeag East and Barkersville CSO tanks on May 24, 2017, and the Davis Brook CSO tank on May 25, 2017.
- Completed repairs to the Barkersville and Davis Brook CSO tanks on June 21, 2017, and the Kenduskeag East CSO tank on June 22, 2017.
- Replaced tide gate at Central Street outfall (CSO #23).

- Continued updating and maintaining the City’s GIS throughout the reporting period as projects were completed and as new information about infrastructure became available.
- Installed 5 new manholes in system to increase accessibility of mains.
- Repaired Davis Brook outfall structure that had collapsed.
- Met with sewer maintenance department to discuss CCTV procedures, review NASSCO requirements, and answer questions.
- Released RFP for SCADA needs assessment at WWTP and remote sites.

4. Annual CSO Progress Report

The City of Bangor monitors flow at each of its CSO outfalls, either through the Supervisory Control and Data Acquisition (SCADA) system, a contract with ADS Environmental Services for electronic flow meters, or visual means. These data were used to prepare the Annual CSO Progress Report for 2016, which was submitted to Maine DEP on February 28, 2017. This report was copied to EPA.

Pursuant to the requirements of the City’s Maine Pollutant Discharge Elimination (MEPDES) permit ME0100781, as revised, dated August 8, 2016, the City will submit the Annual CSO Progress Report for 2017 to Maine DEP by March 1, 2018. A copy of the report will also be submitted to EPA.

B. Illicit Connections

1. List of Illicit Connections

The City discovered and replaced three illicit connections during the reporting period, as summarized in the table below. The connections on Birch Street required construction of new laterals, location of new plumbing connections to the houses, and rerouting interior plumbing.

ID Number	Date Discovered	Address or Location	Estimated Flow and Type	Date Removed
17-01	8/17/17	236 Birch St	270 gal/day; residential flow	12/6/17
17-02	8/31/17	244 Birch St	potential 270 gal/day; residential flow (building has been unoccupied)	12/6/17
17-03	10/6/17	254 Washington St	85 gal/day; office flow	11/2/17

2. GIS Map of Each Illicit Connection

The locations of illicit connections that were discovered within the reporting period are shown in Appendix A (Location Map of Illicit Connections).

C. Collection System Assessments and Maintenance

Based on the most current GIS data available, the length of the inspectable portion of the City’s sewer collection system is approximately 719,000 linear feet, or 136 miles. The length of the remaining components of the sewer collection system, including interceptors, force mains, siphons,

and leads, is approximately 80,300 linear feet, or approximately 15 miles. Generally, interceptors, force mains, siphons, and leads are not able to be inspected using CCTV or flushed under normal operating circumstances using standard industry practices. There are approximately 3,306 manholes in the collection system, including new ones added this year.

1. CCTV Assessments

The City and/or its subcontractors completed 133,564 linear feet of CCTV inspections within the publicly owned sewer collection system. This amount includes repeat CCTV inspections. The total length of system pipe investigated is 128,484 linear feet, or about 17.8% of the inspectable portion of the sewer collection system. Refer to Appendix B (CCTV Inspection Log) for a complete listing of CCTV inspections completed during the reporting period.

2. Manhole Assessments

The City and/or its subcontractors completed manhole inspections on 328 publicly owned sewer collection system manholes in 2017, which is about 9.9% of the total number of public manholes in the system. This number does not include repeat inspections. Refer to Appendix C (Manhole Inspection Log) for a complete listing of inspections completed during the reporting period.

3. Repairs, Replacements, or Upgrades Identified by CCTV

Refer to Appendix D (CCTV Repair, Replacement, and Upgrade Log) for a listing of repairs, replacements, or upgrades that were identified during CCTV investigations, as well as a schedule for implementation for those repairs, replacements, or upgrades that were not completed during the reporting period.

4. Cleaning

The City and/or its subcontractors cleaned 207,685 linear feet of pipe within the publicly owned sewer collection system in 2017, including repeat cleanings. The total length of pipe cleaned excluding repeat cleanings is 75,155 linear feet, or about 10.4% of the inspectable portion of the sewer collection system. Refer to Appendix E (Cleaning Log), for a complete listing of cleaning completed during the reporting period. This includes cleaning done in advance of CCTV work and performed as part of routine maintenance activities. Note that lines are not always cleaned in advance of CCTV work, as sometimes it is beneficial to perform a CCTV investigation on a pipe without prior cleaning.

D. Maintenance Improvement Plan (MIP)

As part of the City's annual MIP update, the City updates the following information and performance metrics on a yearly basis:

Plan Updates

- Organizational Structure, Information Management, Contacts
- Changes to System Maps
- Incorporation of Cleaning, Inspection, and Assessment Programs

- Changes to Sewer Use Ordinance or Fats, Oils, and Grease Program
- Changes to Pump Station Inspection and Maintenance Program
- Collection System Capacity Analysis Updates

Performance Metrics

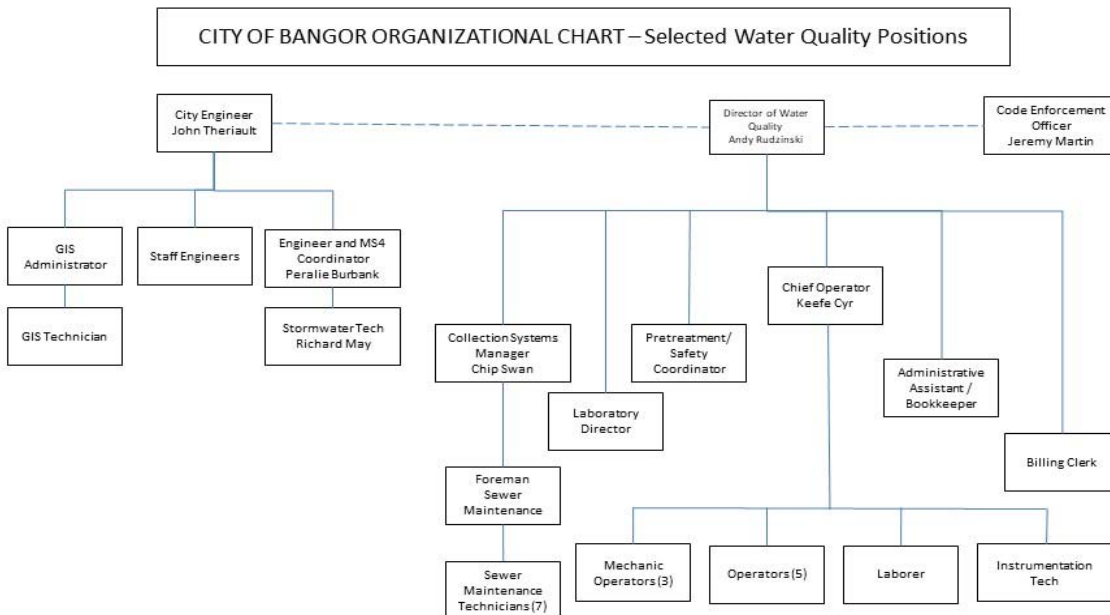
- SSOs
- Routine Cleaning and CCTV Assessment
- Pump Station Work Orders
- Fats, Oils, and Grease

The MIP update incorporates these changes where indicated and described below:

1. Plan Updates

a) Organizational Structure, Information Management, Contacts

The following is the current organization chart showing key positions.



b) Changes to System Maps

The collection system mapping is updated continuously throughout the year as part of the City’s ongoing GIS infrastructure mapping program. The GIS dataset containing sewer, stormwater, and other relevant features is provided to EPA annually on July 1 pursuant to Par. 9.a. of the Consent Decree.

c) *Incorporation of Cleaning, Inspection, and Assessment Programs*

The City established a goal in the MIP to clean, inspect, and assess 10% of its sewer collection system per year. The lists of pipe that were inspected and cleaned during the reporting period are included in Appendices B (CCTV Inspections) and E (Cleaning Log), respectively. The list of manholes that were inspected during the reporting period is included as Appendix C (Manhole Inspection Log).

d) *Changes to Sewer Use Ordinance or Fats, Oils, and Grease Program*

The sewer use ordinance §252-19.B was amended to allow backup generators at private pump stations to use fuel sources other than gasoline and diesel.

e) *Changes to Pump Station Inspection and Maintenance Program*

The Pump Station Inspection and Maintenance Program did not undergo any changes during the reporting period.

f) *Collection System Capacity Analysis Updates*

The City maintains a hydraulic model of selected portions of its collection system, in part to assist in evaluating available capacity in the collection system. The model was developed using the EPA Stormwater Management Model (SWMM) module and was periodically updated by the City's previous consultant. In preparation for the implementation of the City's approved CSO Phase II LTCP, the City's current consultant, AECOM, maintained the SWMM model and updated it as follows:

- Extended the model network further upstream in selected areas, as required
- Started to refine the model and calibration update for final design projects
- Reviewed flow metering data/ and update flow metering program to collect flow data for the final design projects
- Included recently constructed sewer separation projects and results of City field investigations

SWMM model update work will continue during the 2018 reporting period as needed when projects are completed and new information becomes available.

2. Performance Metrics

a) *SSOs*

SSO events that occurred during the reporting period are summarized in the table below. For a detailed listing of SSO events that occurred during the reporting period, refer to Appendix F (SSO Event Log).

Total number of SSOs	4
Estimated total volume of SSOs	unknown
Number of dry weather SSOs	0
Number of wet weather SSOs	0
Number of SSOs where weather was either unknown or irrelevant to type of incident	4
Number of SSOs caused primarily by pipe blockage (debris, grease)	2
Number of SSOs caused primarily by pipe failure	0
Average response time to SSOs or service calls	1 hour

b) Routine Cleaning and CCTV Assessment

For the total amount of collections system pipe that was inspected by CCTV and cleaned during the reporting period, refer to Appendices C (CCTV Inspection Log) and F (Cleaning Log), respectively.

c) Pump Station Work Orders

There were 39 pump station work orders completed during the reporting period. Kenduskeag pump station is checked seven days per week. The other pump stations are visited a minimum of twice per week. During these checks housekeeping, minor repairs, and adjustments are made that are not reflected on work orders.

d) Fats, Oils, and Grease (FOG)

During the 2017 reporting period, the City permitted the installation of 15 grease traps or interceptors and inspected the installation of 14 of these grease control devices. One device has not yet been inspected, as the work is not yet completed. The devices are in buildings for which the use was changing.

The one large facility that was identified in last year’s report that was known to be operating without a grease trap, and that was working with the Code Enforcement Office, has now installed two grease control devices. In addition, during 2017 two additional establishments that were recently found to not have any FOG equipment are now in the process of applying for a FOG grant that will assist them with the installation of FOG equipment. It is anticipated that by May 1, 2018 ,these two establishments in compliance.

As part of the annual licensing of food service establishments, the Code Enforcement Division is now requiring more detailed reporting of service and cleaning of FOG equipment.

IV. Sanitary Sewer Overflows (SSOs)

A. Chronological List of SSOs

There were four SSOs, including Private Property Backups, that occurred during the reporting period. Refer to Appendix F (SSO Event Log) for a complete listing of SSOs that occurred within the reporting period, as well as details regarding each incident.

B. GIS Map of Each SSO

Location maps of SSOs that occurred within the reporting period are included as Appendix G (Location Map of Sanitary Sewer Overflows).

V. Sanitary System Evaluation Survey (SSES) Update

The City hired Ted Berry Company to conduct an I/I investigation in the Carr Brook subsection. This subsection is linked to the Carr Brook CSO (Outfall #020). This field work consisted of flow isolation and CCTV inspections as described in the SSES Phase III SOW. The City is currently analyzing the data. Smoke testing may be undertaken in 2018 if necessary to determine inflow sources. Although analysis has not been completed, the following minor sources of I/I were noted at structures.

Manhole	Private/Public	Type	Amount (GPM)
CB122	private	inflow	0.25
CB123	private	inflow	0.25
CB123	public	infiltration	0.25
CB124	public	infiltration	0.25
CB130	public	infiltration	0.25
CB133	public	infiltration	0.25
CB405	private	infiltration under service	0.25
CB405	public	infiltration	0.5
CB504	public	infiltration	0.25

Based on review of the inspection data, no known or suspected infiltration into the storm drain system or surface waters was identified.

The City expects to start flow isolation and I/I-specific CCTV field work on the Davis Brook subsection in the spring of 2018.

VI. CSO Long-Term Control Plan (LTCP) Update

The City completed three projects on the cost-effective list in the LTCP (Table 8-3, page 75). These were lining AP202-AP203, repairing AP450-AP451, and lining DW020-DW500. Furthermore, line AP400-AP500 was abandoned in 2016.

Year	No. of Projects	I/I removed (GPD)
2016	1	5,600
2017	3	5,800
TOTAL	4	11,400

The City attempted to line AP414A-AP415 as recommended in the LTCP. This line, however, had a drop manhole making lining impossible.

As described in Section III.A.1, the City also separated 1350 LF of combined sewer and additionally removed 3 catch basins that were re-connected to the storm drain system.

VII. Compliance Activities Planned for Following Reporting Period

The following activities, in no particular order, are planned for the next reporting period in order to achieve compliance with the requirements of the Consent Decree and reduce CSO and SSO volumes:

- Locate and redirect illicit connections as part of Municipal Separate Storm Sewer System (MS4) permit compliance activities.
- Continue work under the City's Sewer Spot Repair Contract to prioritize and repair trouble spots and other defects in the collection system.
- Continue work with consultant on modeling, to determine if capacity is available to make further adjustments on CSO weirs and regulator structures.
- Clean, perform CCTV inspections, and identify upgrades, repairs, or replacements needed in the collection system, covering a minimum of 10% of the collection system per year. Areas of focus for the next reporting period include the Kenduskeag East, Davis Brook, and Barkersville subsections.
- Analyze SSES data collected in the Carr Brook subsection and begin data collection for Davis Brook subsection.
- Continue collection system maintenance activities such as easement clearing and easement inspections.
- Submit the Annual CSO Progress Report to DEP and EPA, due on or before March 1, 2018.
- Submit the Annual Report for MS4 PY5 to DEP and EPA, due on or before September 15, 2018.
- Abandon a significant portion of the Dow subsection, eliminating over 30,000 GPD of I/I.
- Inspect CSO tanks twice annually, during high tide.
- Complete design of the second holding tank in the Davis Brook subsection.

Note that certain of the above-described tasks planned for the next reporting period may be subject to adjustment due to changing priorities (including, among other things, the need to prioritize emergency repairs) and to take advantage of opportunities that may arise to align capital projects with other utility or roadway resurfacing work.

Appendices

- A. Location Map of Illicit Connections**
- B. CCTV Inspection Log**
- C. Manhole Inspection Log**
- D. CCTV Repair, Replacement, and Upgrade Log**
- E. Cleaning Log**
- F. SSO Event Log**
- G. Location Map of Sanitary Sewer Overflows**

Appendix A. Location Map of Illicit Connections

WASTEWATER COLLECTION SYSTEM AND ILLICIT CONNECTIONS

Jan. 1, 2017 - Dec. 31, 2017

Legend

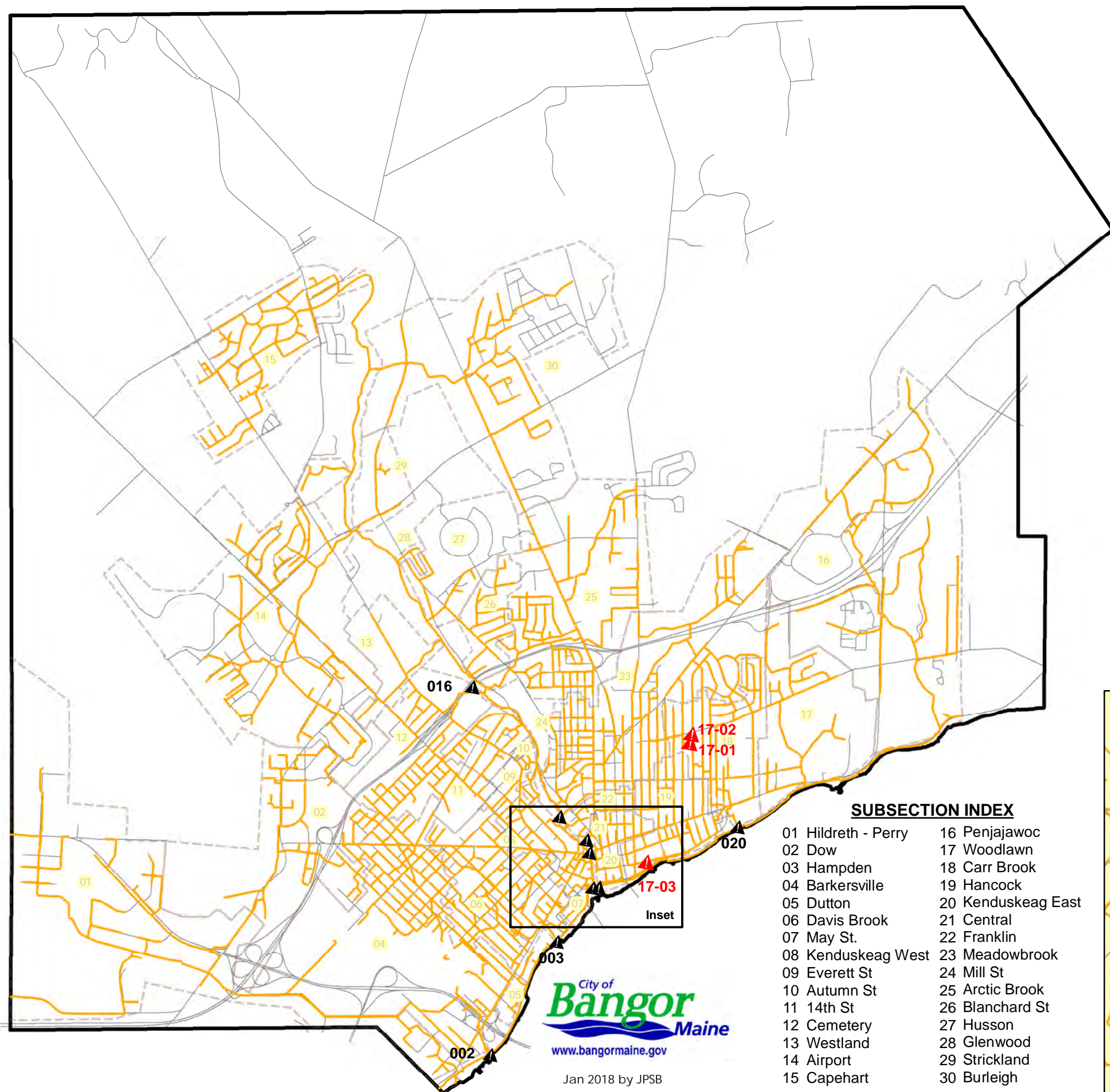
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- ▲ Licensed CSO Location
- Sewer Pipes
- ▭ Sewer Subsections

CSO INDEX

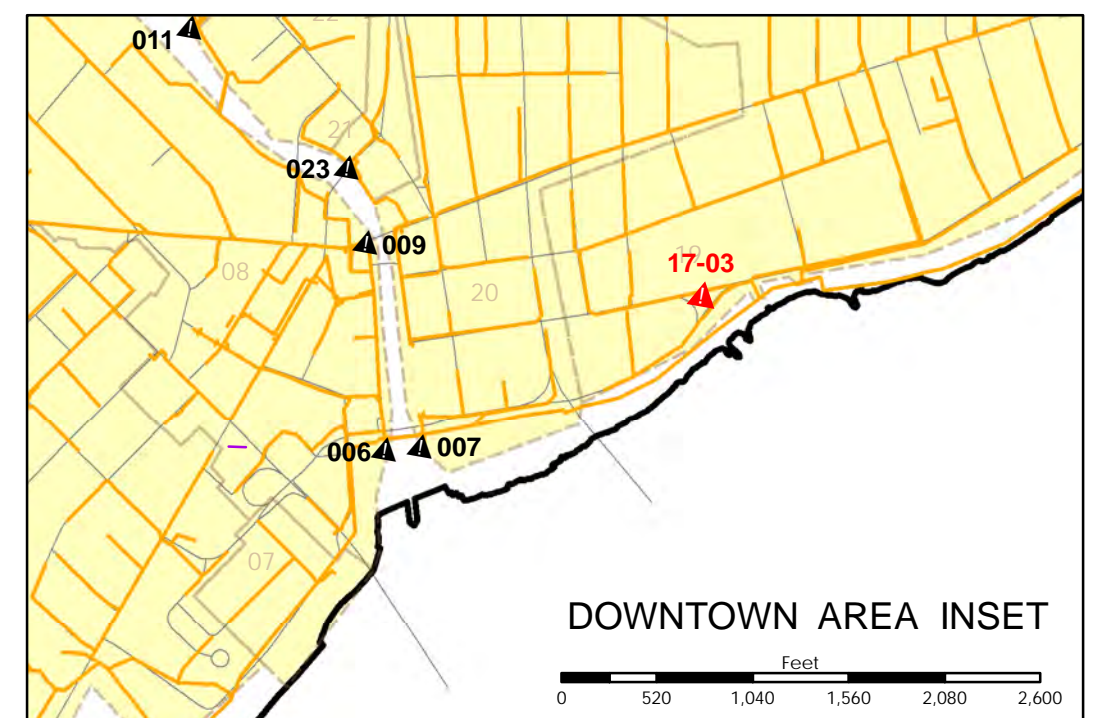
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|---------------------|---------------------|--------------------|
| 002 Barkersville | 007 Kenduskeag East | 016 Cemetery |
| 003 Davis Brook | 009 Hammond Street | 020 Carr Brook |
| 006 Kenduskeag West | 011 Meadowbrook | 023 Central Street |

SUBSECTION INDEX

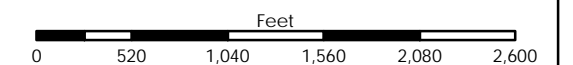
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|---------------------|--------------------|
| 01 Hildreth - Perry | 16 Penjajawoc |
| 02 Dow | 17 Woodlawn |
| 03 Hampden | 18 Carr Brook |
| 04 Barkersville | 19 Hancock |
| 05 Dutton | 20 Kenduskeag East |
| 06 Davis Brook | 21 Central |
| 07 May St. | 22 Franklin |
| 08 Kenduskeag West | 23 Meadowbrook |
| 09 Everett St | 24 Mill St |
| 10 Autumn St | 25 Arctic Brook |
| 11 14th St | 26 Blanchard St |
| 12 Cemetery | 27 Husson |
| 13 Westland | 28 Glenwood |
| 14 Airport | 29 Strickland |
| 15 Capehart | 30 Burleigh |



Jan 2018 by JPSB



DOWNTOWN AREA INSET



Appendix B. CCTV Inspection Log

APPENDIX B: CCTV INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
AB017	ARCTIC BROOK	9/29/2017	234.8	Yes	Pre-Rehab Survey
AB017	ARCTIC BROOK	10/3/2017	72.6	Yes	Post-Rehab Survey
AB018	ARCTIC BROOK	3/10/2017	255.8		
AB019	ARCTIC BROOK	3/10/2017	187.3	Yes	Pre-Rehab Survey
AB020	ARCTIC BROOK	4/20/2017	453.6	Yes	Resurvey due to flushing
AB021	ARCTIC BROOK	4/21/2017	369.1		
AB100	ARCTIC BROOK	3/22/2017	240.0		
AB221	ARCTIC BROOK	3/22/2017	194.9	Yes	Maintenance Survey
AB251	ARCTIC BROOK	2/21/2017	6.0		
AB251	ARCTIC BROOK	2/21/2017	11.8		
AB350	ARCTIC BROOK	4/10/2017	14.6	Yes	Condition assessment
AB350	ARCTIC BROOK	5/3/2017	15.0	Yes	Condition assessment
AB350	ARCTIC BROOK	5/4/2017	35.4	Yes	Condition assessment
AB350	ARCTIC BROOK	5/8/2017	200.9	Yes	Resurvey due to flushing
AB400	ARCTIC BROOK	3/9/2017	550.1	Yes	Locating sewer service
AB401A	ARCTIC BROOK	4/21/2017	189	Yes	Pre-Rehab Survey
AB405	ARCTIC BROOK	2/6/2017	75.7	Yes	Locating sewer service
AB405	ARCTIC BROOK	3/8/2017	75.5	Yes	Locating sewer service
AB500	ARCTIC BROOK	3/10/2017	164.1	Yes	Pre-Rehab Survey
AB503	ARCTIC BROOK	1/20/2017	113.5	Yes	Pre-Rehab Survey
AB550	ARCTIC BROOK	2/24/2017	45.8		
AB550	ARCTIC BROOK	2/24/2017	331.4		
AB550	ARCTIC BROOK	10/26/2017	53.4	Yes	Post-Rehab Survey
AB551	ARCTIC BROOK	2/24/2017	386.7	Yes	Pre-Rehab Survey
AB551	ARCTIC BROOK	10/26/2017	388.2	Yes	Post-Rehab Survey
AB560	ARCTIC BROOK	2/22/2017	4.6	Yes	Maintenance Survey
AB560	ARCTIC BROOK	2/23/2017	324.2	Yes	Maintenance Survey
AB561	ARCTIC BROOK	2/22/2017	52.9		
AB561	ARCTIC BROOK	2/22/2017	284.6		
AB561	ARCTIC BROOK	10/24/2017	132.4	Yes	Reversal
AB561	ARCTIC BROOK	10/24/2017	293.9	Yes	Post-Rehab Survey
AB562	ARCTIC BROOK	2/23/2017	75.4	Yes	Maintenance Survey
AB600	ARCTIC BROOK	4/20/2017	130.1		
AB601	ARCTIC BROOK	4/20/2017	298.3		
AB602	ARCTIC BROOK	4/20/2017	238.0		
AB603	ARCTIC BROOK	4/20/2017	65.8		
AB604	ARCTIC BROOK	4/20/2017	415.7	Yes	Resurvey due to flushing
AB605	ARCTIC BROOK	4/24/2017	462.9		
AB620	ARCTIC BROOK	11/6/2017	20.4	Yes	Condition assessment
AB620	ARCTIC BROOK	11/17/2017	427.1	Yes	Resurvey due to flushing

APPENDIX B: CCTV INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
AB621	ARCTIC BROOK	11/6/2017	298.5	Yes	I&I Study
AB622	ARCTIC BROOK	11/6/2017	348.0	Yes	I&I Study
AB623	ARCTIC BROOK	11/6/2017	380.2	Yes	Resurvey due to flushing
AB624	ARCTIC BROOK	11/6/2017	230.4	Yes	Resurvey due to flushing
AP203	AIRPORT	6/19/2017	165.4	Yes	Pre-Rehab Survey
AP203	AIRPORT	9/20/2017	161.9	Yes	Post-Rehab Survey
AP325	AIRPORT	4/14/2017	239		
AP326	AIRPORT	4/14/2017	142.5		
AP328	AIRPORT	4/5/2017	300.9		
AP328	AIRPORT	4/13/2017	303.4	Yes	Resurvey due to flushing
AP329	AIRPORT	4/4/2017	243	Yes	Condition assessment
AP329	AIRPORT	4/13/2017	244	Yes	Resurvey due to flushing
AP330	AIRPORT	4/4/2017	235.8	Yes	Condition assessment
AP330	AIRPORT	4/13/2017	234.1	Yes	Resurvey due to flushing
AP331	AIRPORT	4/4/2017	244.4	Yes	Condition assessment
AP331	AIRPORT	4/13/2017	243.3	Yes	Resurvey due to flushing
AP332	AIRPORT	4/4/2017	0.0		
AP332	AIRPORT	4/4/2017	297.7	Yes	Reversal
AP340	AIRPORT	4/21/2017	120.6		
AP341	AIRPORT	4/21/2017	202.3		
AP342	AIRPORT	4/21/2017	274.7		
AP343	AIRPORT	4/21/2017	192.8		
AP344	AIRPORT	4/20/2017	58.7		
AP344	AIRPORT	4/21/2017	136.9	Yes	Reversal
AP345	AIRPORT	4/20/2017	70.8		
AP346	AIRPORT	4/20/2017	50.2		
AP346	AIRPORT	4/20/2017	101.4	Yes	Reversal
AP350	AIRPORT	4/14/2017	14.4		
AP350	AIRPORT	4/14/2017	42	Yes	Reversal
AP351	AIRPORT	4/14/2017	156.2	Yes	Resurvey due to flushing
AP360	AIRPORT	4/3/2017	337.4	Yes	Post-Rehab Survey
AP505A	AIRPORT	5/10/2017	34.3		
AP506	AIRPORT	5/10/2017	122.8		
AP720	AIRPORT	7/6/2017	242.8		
AP721	AIRPORT	7/6/2017	1.3	Yes	Maintenance Survey
BS020	BLANCHARD ST	2/9/2017	214	Yes	Maintenance Survey
BS021	BLANCHARD ST	2/9/2017	226.6	Yes	Maintenance Survey
BU651	BURLEIGH	11/1/2017	196.2	Yes	Pre-Rehab Survey
BV022	BARKERSVILLE	7/11/2017	257		
BV022	BARKERSVILLE	7/11/2017	417.5	Yes	Reversal

APPENDIX B: CCTV INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
BV030	BARKERSVILLE	8/2/2017	606.9	Yes	Resurvey due to flushing
BV031	BARKERSVILLE	8/2/2017	6.1		
BV032	BARKERSVILLE	8/2/2017	253.8		
BV033	BARKERSVILLE	7/31/2017	247.4	Yes	Pre-Rehab Survey
BV055	BARKERSVILLE	10/11/2017	276.1		
BV101	BARKERSVILLE	6/13/2017	200.8	Yes	Maintenance Survey
BV120	BARKERSVILLE	10/16/2017	379.7		
BV121	BARKERSVILLE	10/16/2017	69.5		
BV121	BARKERSVILLE	10/16/2017	102.4	Yes	Reversal
BV122	BARKERSVILLE	10/16/2017	66.4		
BV202	BARKERSVILLE	2/17/2017	514.3		
BV218	BARKERSVILLE	10/5/2017	2		
BV218	BARKERSVILLE	10/5/2017	194.2	Yes	Reversal
BV220	BARKERSVILLE	10/5/2017	96.2		
BV221	BARKERSVILLE	10/5/2017	273.5		
BV223	BARKERSVILLE	10/3/2017	359.6		
BV224	BARKERSVILLE	10/3/2017	403.0		
BV225	BARKERSVILLE	10/3/2017	398.5		
BV226	BARKERSVILLE	10/3/2017	218.8		
BV227	BARKERSVILLE	10/3/2017	112.5		
BV301A	BARKERSVILLE	1/30/2017	0.1		
BV330	BARKERSVILLE	1/30/2017	81.6		
BV335	BARKERSVILLE	1/30/2017	98.6		
BV335	BARKERSVILLE	7/10/2017	100.4		
BV400	BARKERSVILLE	11/28/2017	188.1	Yes	Resurvey due to previous issues
BV400	BARKERSVILLE	11/29/2017	229.0	Yes	Resurvey due to previous issues
BV407	BARKERSVILLE	9/6/2017	168.6		
BV420	BARKERSVILLE	4/10/2017	255.3		
BV465	BARKERSVILLE	2/3/2017	705.1		
BV465	BARKERSVILLE	8/25/2017	12.7	Yes	Post-Rehab Survey
BV465A	BARKERSVILLE	8/25/2017	310.6	Yes	Post-Rehab Survey
BV466	BARKERSVILLE	1/26/2017	433		
BV466	BARKERSVILLE	8/30/2017	489.4	Yes	Maintenance Survey
BV467	BARKERSVILLE	1/26/2017	28.2		
BV467	BARKERSVILLE	8/31/2017	441.0	Yes	Maintenance Survey
BV467	BARKERSVILLE	11/2/2017	439.0	Yes	Post-Rehab Survey
BV501	BARKERSVILLE	12/21/2017	142.2		
BV502	BARKERSVILLE	12/21/2017	246.5		
BV510	BARKERSVILLE	12/21/2017	300.3		
BV515	BARKERSVILLE	3/9/2017	270.0		

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BV545	BARKERSVILLE	8/16/2017	72.4		
BV576	BARKERSVILLE	12/11/2017	361.3		
BV576A	BARKERSVILLE	12/11/2017	24.4		
BV578	BARKERSVILLE	12/20/2017	20.6		
BV579	BARKERSVILLE	12/18/2017	436.9		
BV579	BARKERSVILLE	12/20/2017	119.0	Yes	Reversal
BV580	BARKERSVILLE	10/6/2017	179.4		
BV581	BARKERSVILLE	11/2/2017	407.8		
BV585	BARKERSVILLE	9/7/2017	254.1		
BV586	BARKERSVILLE	9/7/2017	266.0		
BV587	BARKERSVILLE	9/7/2017	170.6		
BV587	BARKERSVILLE	12/7/2017	259.7	Yes	Resurvey due to flushing
BV588	BARKERSVILLE	9/6/2017	165.4		
BV600	BARKERSVILLE	12/6/2017	320		
BV602	BARKERSVILLE	12/20/2017	338.5		
BV603	BARKERSVILLE	12/18/2017	308.5		
BV603	BARKERSVILLE	12/18/2017	116.0	Yes	Reversal
BV604	BARKERSVILLE	12/15/2017	309.0		
BV605	BARKERSVILLE	12/15/2017	27.6		
BV610	BARKERSVILLE	12/6/2017	119.2		
BV615	BARKERSVILLE	12/5/2017	543.5		
BV616	BARKERSVILLE	12/5/2017	245.4		
BV617	BARKERSVILLE	12/5/2017	291.1		
BV618	BARKERSVILLE	12/7/2017	251.3		
BV619	BARKERSVILLE	12/8/2017	313.6		
BV620	BARKERSVILLE	12/14/2017	121.6		
BV625	BARKERSVILLE	12/7/2017	234.3		
BV627	BARKERSVILLE	12/14/2017	408.0		
BV627	BARKERSVILLE	12/14/2017	75.5	Yes	Reversal
BV628	BARKERSVILLE	12/14/2017	43.2		
BV630	BARKERSVILLE	12/7/2017	87.4		
BV635	BARKERSVILLE	12/8/2017	188.1		
BV660	BARKERSVILLE	12/15/2017	229.7		
BV726	BARKERSVILLE	9/6/2017	0.5		
BV730	BARKERSVILLE	8/16/2017	119.1		
BV740	BARKERSVILLE	8/16/2017	211.5		
BV741	BARKERSVILLE	8/28/2017	409.5		
BV742	BARKERSVILLE	5/31/2017	28.3		
BV743	BARKERSVILLE	5/31/2017	179.6		
BV752	BARKERSVILLE	8/1/2017	30.3		

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BV762	BARKERSVILLE	8/29/2017	501.8		
BV765	BARKERSVILLE	9/26/2017	290.3		
BV766	BARKERSVILLE	8/1/2017	7.1		
BV766	BARKERSVILLE	9/18/2017	256.7	Yes	Reversal
CB001	CARR BROOK	7/20/2017	79.0		
CB002	CARR BROOK	7/20/2017	145.1		
CB004	CARR BROOK	7/20/2017	176.3		
CB005	CARR BROOK	7/20/2017	125.1		
CB006	CARR BROOK	7/20/2017	17.9		
CB007	CARR BROOK	7/20/2017	195.6		
CB008	CARR BROOK	7/20/2017	25.6		
CB009	CARR BROOK	7/20/2017	126.3		
CB010	CARR BROOK	7/20/2017	97.7		
CB011	CARR BROOK	7/20/2017	22.4		
CB012	CARR BROOK	7/20/2017	283.2		
CB013	CARR BROOK	7/20/2017	157.8		
CB014	CARR BROOK	7/19/2017	147.2		
CB015	CARR BROOK	7/19/2017	67.4		
CB016	CARR BROOK	7/19/2017	138.6		
CB017	CARR BROOK	7/19/2017	34.9		
CB018	CARR BROOK	7/19/2017	197.7		
CB019	CARR BROOK	7/19/2017	90.3		
CB020	CARR BROOK	7/19/2017	183		
CB021	CARR BROOK	3/10/2017	229.8		
CB021	CARR BROOK	6/28/2017	221.4	Yes	I&I Study
CB021	CARR BROOK	7/19/2017	29.3	Yes	Reversal
CB022	CARR BROOK	3/10/2017	233.1		
CB022	CARR BROOK	6/26/2017	234.6		
CB023	CARR BROOK	6/26/2017	159.2		
CB024	CARR BROOK	6/23/2017	100.4		
CB025	CARR BROOK	6/23/2017	113.2		
CB026	CARR BROOK	6/23/2017	112.2		
CB027	CARR BROOK	5/18/2017	337.0	Yes	I&I Study Prep
CB027	CARR BROOK	6/23/2017	334.2		
CB028	CARR BROOK	6/23/2017	400	Yes	I&I Study
CB028	CARR BROOK	8/17/2017	402.3	Yes	Post-Rehab Survey
CB029	CARR BROOK	6/26/2017	138.9		
CB031	CARR BROOK	6/26/2017	175.2		
CB032	CARR BROOK	6/26/2017	248.1		
CB033	CARR BROOK	6/27/2017	279.8		

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CB034	CARR BROOK	6/27/2017	263.4		
CB035	CARR BROOK	3/6/2017	297.1	Yes	I&I Study Prep
CB035	CARR BROOK	6/23/2017	292.5		
CB036	CARR BROOK	3/6/2017	192.4	Yes	I&I Study Prep
CB036	CARR BROOK	6/23/2017	193.7		
CB037	CARR BROOK	3/6/2017	629.2	Yes	I&I Study Prep
CB037	CARR BROOK	6/23/2017	63.1		
CB037	CARR BROOK	6/23/2017	558.5		
CB038	CARR BROOK	3/7/2017	0.4		
CB040	CARR BROOK	7/18/2017	13.5		
CB100	CARR BROOK	7/20/2017	40.9		
CB101	CARR BROOK	5/19/2017	271.2	Yes	I&I Study Prep
CB101	CARR BROOK	7/20/2017	268.1	Yes	I&I Study
CB101A	CARR BROOK	5/19/2017	190.1	Yes	I&I Study Prep
CB101A	CARR BROOK	7/20/2017	190.7	Yes	I&I Study
CB102	CARR BROOK	5/19/2017	249.7	Yes	I&I Study Prep
CB102	CARR BROOK	7/20/2017	251.5	Yes	I&I Study
CB103	CARR BROOK	7/7/2017	174.2		
CB104	CARR BROOK	7/7/2017	208.6		
CB105	CARR BROOK	5/19/2017	310.5	Yes	I&I Study Prep
CB105	CARR BROOK	7/7/2017	311.6	Yes	I&I Study
CB106	CARR BROOK	5/19/2017	301.5	Yes	I&I Study Prep
CB106	CARR BROOK	7/7/2017	56.1	Yes	I&I Study
CB106	CARR BROOK	7/7/2017	288.7	Yes	I&I Study
CB107	CARR BROOK	5/19/2017	301.5	Yes	I&I Study Prep
CB107	CARR BROOK	7/7/2017	302.2	Yes	I&I Study
CB108	CARR BROOK	5/18/2017	329.9	Yes	I&I Study Prep
CB108	CARR BROOK	7/7/2017	329	Yes	I&I Study
CB109	CARR BROOK	7/7/2017	307.9		
CB110	CARR BROOK	7/7/2017	88.4		
CB111	CARR BROOK	5/23/2017	349.3	Yes	Maintenance Survey
CB112	CARR BROOK	6/27/2017	22.6		
CB113	CARR BROOK	6/27/2017	98		
CB113	CARR BROOK	6/27/2017	110.1		
CB114	CARR BROOK	6/27/2017	247		
CB115	CARR BROOK	6/27/2017	123.1		
CB121	CARR BROOK	7/19/2017	198.7		
CB122	CARR BROOK	5/18/2017	214.2	Yes	I&I Study Prep
CB122	CARR BROOK	6/14/2017	211.7	Yes	I&I Study
CB123	CARR BROOK	5/18/2017	293.4	Yes	I&I Study Prep

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CB123	CARR BROOK	6/14/2017	292.2	Yes	I&I Study
CB124	CARR BROOK	6/13/2017	342.5		
CB125	CARR BROOK	6/13/2017	331		
CB126	CARR BROOK	6/13/2017	354	Yes	I&I Study
CB130	CARR BROOK	6/14/2017	215.7	Yes	I&I Study
CB131	CARR BROOK	5/18/2017	239.8	Yes	I&I Study Prep
CB131	CARR BROOK	6/13/2017	241.7	Yes	I&I Study
CB133	CARR BROOK	6/12/2017	221	Yes	I&I Study
CB133	CARR BROOK	6/12/2017	436.9	Yes	I&I Study
CB134	CARR BROOK	6/12/2017	120.9	Yes	I&I Study
CB134	CARR BROOK	6/12/2017	231.7	Yes	I&I Study
CB134	CARR BROOK	10/26/2017	346.0	Yes	Post-Rehab Survey
CB135	CARR BROOK	6/12/2017	200.4	Yes	I&I Study
CB141	CARR BROOK	6/13/2017	688.6		
CB141	CARR BROOK	6/13/2017	192.9	Yes	Reversal
CB145	CARR BROOK	6/14/2017	47.3	Yes	I&I Study
CB145	CARR BROOK	6/14/2017	217	Yes	I&I Study
CB150	CARR BROOK	7/19/2017	302		
CB151	CARR BROOK	7/19/2017	225		
CB155	CARR BROOK	6/14/2017	181.5		
CB160	CARR BROOK	6/27/2017	129.8		
CB161	CARR BROOK	6/14/2017	97.9		
CB162	CARR BROOK	6/14/2017	277.3	Yes	I&I Study
CB163	CARR BROOK	6/21/2017	334.5		
CB165	CARR BROOK	6/14/2017	163.4		
CB165A	CARR BROOK	6/14/2017	114.8		
CB166	CARR BROOK	6/14/2017	247.7		
CB200	CARR BROOK	7/20/2017	26.2		
CB201	CARR BROOK	7/20/2017	208.5		
CB201A	CARR BROOK	7/20/2017	142.9		
CB201B	CARR BROOK	7/20/2017	76		
CB211	CARR BROOK	7/20/2017	187.5	Yes	I&I Study
CB212	CARR BROOK	5/15/2017	221.4	Yes	I&I Study Prep
CB212	CARR BROOK	7/20/2017	243.4	Yes	I&I Study
CB215	CARR BROOK	7/20/2017	87.9		
CB250	CARR BROOK	7/19/2017	137.5		
CB251	CARR BROOK	7/19/2017	153.7		
CB252	CARR BROOK	7/19/2017	95.4		
CB253	CARR BROOK	6/19/2017	50.9	Yes	I&I Study Prep
CB253	CARR BROOK	6/19/2017	189.6	Yes	I&I Study Prep

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CB253	CARR BROOK	6/29/2017	330.9	Yes	I&I Study
CB260	CARR BROOK	7/7/2017	141.2		
CB261	CARR BROOK	7/7/2017	184		
CB262	CARR BROOK	7/7/2017	35.7		
CB262	CARR BROOK	7/7/2017	266.91	Yes	Reversal
CB263	CARR BROOK	7/7/2017	98.4		
CB280	CARR BROOK	7/19/2017	316.4		
CB300	CARR BROOK	6/28/2017	315.5		
CB301	CARR BROOK	6/28/2017	317.1		
CB302	CARR BROOK	6/28/2017	317.1		
CB303	CARR BROOK	6/26/2017	317.3	Yes	I&I Study
CB303	CARR BROOK	10/27/2017	200.6	Yes	Maintenance Survey
CB304	CARR BROOK	6/26/2017	305.5	Yes	I&I Study
CB304	CARR BROOK	10/27/2017	307.7	Yes	Maintenance Survey
CB400	CARR BROOK	3/7/2017	237.2	Yes	I&I Study Prep
CB400	CARR BROOK	6/28/2017	181.4	Yes	I&I Study
CB401	CARR BROOK	3/7/2017	239.4	Yes	I&I Study Prep
CB401	CARR BROOK	6/28/2017	235.6	Yes	I&I Study
CB402	CARR BROOK	3/7/2017	522.2	Yes	I&I Study Prep
CB402	CARR BROOK	6/29/2017	514.5	Yes	I&I Study
CB403	CARR BROOK	3/7/2017	353	Yes	I&I Study Prep
CB403	CARR BROOK	6/29/2017	350.9	Yes	I&I Study
CB404	CARR BROOK	3/10/2017	344.4		
CB404	CARR BROOK	6/15/2017	347.2	Yes	I&I Study
CB405	CARR BROOK	6/15/2017	297.7		
CB406	CARR BROOK	6/15/2017	147.7	Yes	I&I Study
CB407	CARR BROOK	6/15/2017	157.9		
CB410	CARR BROOK	6/15/2017	378.4		
CB450	CARR BROOK	7/19/2017	61.1		
CB451	CARR BROOK	7/19/2017	365.3	Yes	I&I Study
CB452	CARR BROOK	7/19/2017	62.5		
CB500	CARR BROOK	6/26/2017	287.1		
CB501	CARR BROOK	6/26/2017	289.8		
CB502	CARR BROOK	6/23/2017	150.5		
CB503	CARR BROOK	6/23/2017	452.3		
CB504	CARR BROOK	6/22/2017	156.5		
CB504	CARR BROOK	6/27/2017	534.9		
CB505	CARR BROOK	6/15/2017	397.5		
CB506	CARR BROOK	6/21/2017	268		
CB550	CARR BROOK	6/26/2017	157.5		

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CB551	CARR BROOK	6/26/2017	59.1		
CB601	CARR BROOK	7/19/2017	357.4		
CB602	CARR BROOK	6/22/2017	12.6		
CB602	CARR BROOK	6/22/2017	88.1		
CB603	CARR BROOK	1/25/2017	533.9		
CB603	CARR BROOK	6/16/2017	180	Yes	Resurvey due to flushing
CB603	CARR BROOK	6/21/2017	531.9		
CB604	CARR BROOK	1/25/2017	26.0		
CB604	CARR BROOK	6/21/2017	36.2		
CB650	CARR BROOK	6/23/2017	416		
CB700	CARR BROOK	6/22/2017	84		
CB701	CARR BROOK	6/22/2017	40.9		
CB701	CARR BROOK	6/22/2017	174.9		
CB701	CARR BROOK	6/22/2017	210		
CB702	CARR BROOK	6/22/2017	71.7		
CB702	CARR BROOK	6/28/2017	6.6	Yes	Maintenance Survey
CB750	CARR BROOK	6/26/2017	128		
CB800	CARR BROOK	6/22/2017	232.7		
CB801	CARR BROOK	6/22/2017	277.2		
CB802	CARR BROOK	6/22/2017	302.4		
CB850	CARR BROOK	6/26/2017	0		
CB851	CARR BROOK	6/26/2017	82.9		
CM251	CEMETERY	5/25/2017	350.8	Yes	Maintenance Survey
CM690	CEMETERY	9/22/2017	38.4	Yes	Pre-Rehab Survey
CM691	CEMETERY	9/22/2017	293.6	Yes	Pre-Rehab Survey
CW008	CARDINAL WAY	3/16/2017	93.3		
CW009	CARDINAL WAY	3/16/2017	54		
CW010	CARDINAL WAY	3/16/2017	111		
CW011	CARDINAL WAY	3/16/2017	104.7		
CW012	CARDINAL WAY	3/16/2017	77.1		
CW013	CARDINAL WAY	3/16/2017	98.4		
CW014	CARDINAL WAY	3/16/2017	213.8		
CW015	CARDINAL WAY	3/16/2017	216.4	Yes	Maintenance Survey
CW016	CARDINAL WAY	3/16/2017	169.3		
CW050	CARDINAL WAY	3/16/2017	127.3		
CW051	CARDINAL WAY	3/16/2017	59.4		
DB001	DAVIS BROOK	3/27/2017	88.9		
DB002	DAVIS BROOK	3/27/2017	202.7		
DB003	DAVIS BROOK	3/27/2017	270.7		
DB004	DAVIS BROOK	3/27/2017	141.2		

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DB237	DAVIS BROOK	4/7/2017	436.9		
DB242	DAVIS BROOK	3/23/2017	258.4		
DB242	DAVIS BROOK	3/24/2017	259.5		
DB243	DAVIS BROOK	4/7/2017	227.4		
DB245	DAVIS BROOK	3/23/2017	47.5		
DB420	DAVIS BROOK	1/31/2017	213.7		
DB421	DAVIS BROOK	1/31/2017	84.6		
DB421	DAVIS BROOK	2/1/2017	189.4	Yes	Reversal
DB422	DAVIS BROOK	2/1/2017	226.8		
DB422	DAVIS BROOK	2/2/2017	3.3	Yes	Reversal
DB423	DAVIS BROOK	2/2/2017	169.1		
DB472	DAVIS BROOK	4/10/2017	294.7		
DB501	DAVIS BROOK	2/3/2017	549.2		
DB510	DAVIS BROOK	12/6/2017	80.6	Yes	Pre-Rehab Survey
DB520	DAVIS BROOK	2/9/2017	82.3		
DB525	DAVIS BROOK	2/9/2017	83.1		
DB526	DAVIS BROOK	8/9/2017	86.9		
DB528	DAVIS BROOK	6/9/2017	2.2		
DB535	DAVIS BROOK	2/2/2017	2.2		
DB536	DAVIS BROOK	2/2/2017	89.2		
DB540	DAVIS BROOK	2/9/2017	76.6		
DB540	DAVIS BROOK	6/26/2017	49.4		
DB541	DAVIS BROOK	2/9/2017	11.5		
DB541	DAVIS BROOK	6/9/2017	126.6	Yes	Resurvey
DB541	DAVIS BROOK	6/9/2017	152.6	Yes	Reversal
DB550	DAVIS BROOK	6/26/2017	175.2		
DB552	DAVIS BROOK	6/16/2017	310.1		
DB552	DAVIS BROOK	8/16/2017	310.9	Yes	Pre-Rehab Survey
DB552	DAVIS BROOK	10/24/2017	309.5	Yes	Post-Rehab Survey
DB564	DAVIS BROOK	2/22/2017	140.3		
DB595	DAVIS BROOK	2/23/2017	400.2	Yes	Maintenance Survey
DB596	DAVIS BROOK	3/22/2017	12.5		
DB596	DAVIS BROOK	3/24/2017	40.8	Yes	Resurvey due to flushing
DB601	DAVIS BROOK	4/26/2017	22.1		
DB601	DAVIS BROOK	5/4/2017	135.4	Yes	Post-Rehab Survey
DB605	DAVIS BROOK	4/26/2017	144.1	Yes	Locating sewer service
DW500	DOW	9/20/2017	196.0	Yes	Post-Rehab Survey
FK009	FRANKLIN	3/31/2017	157.5		
FK010	FRANKLIN	3/31/2017	61.7		
HK002	HANCOCK	7/19/2017	88.8		

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HK003	HANCOCK	7/19/2017	7.3		
HK004	HANCOCK	7/12/2017	70.7		
HK005	HANCOCK	7/12/2017	72.3		
HK006	HANCOCK	7/12/2017	159.8	Yes	Resurvey due to flushing
HK006	HANCOCK	10/6/2017	119.2	Yes	Resurvey due to flushing
HK007	HANCOCK	7/6/2017	362.6		
HK008	HANCOCK	7/6/2017	193.8		
HK009	HANCOCK	7/6/2017	35.7		
HK010	HANCOCK	7/6/2017	311.0		
HK010A	HANCOCK	7/31/2017	45.1		
HK011	HANCOCK	7/6/2017	275.8	Yes	Resurvey due to flushing
HK011	HANCOCK	7/31/2017	229.5	Yes	Resurvey due to flushing
HK012	HANCOCK	4/28/2017	394.1		
HK012	HANCOCK	6/28/2017	401.2	Yes	Resurvey due to flushing
HK013	HANCOCK	3/3/2017	233.2	Yes	Reversal
HK013	HANCOCK	3/7/2017	230	Yes	Reversal
HK014	HANCOCK	3/3/2017	264.2		
HK015	HANCOCK	3/7/2017	213.1		
HK016	HANCOCK	6/28/2017	2.5		
HK020	HANCOCK	7/12/2017	90.6		
HK021	HANCOCK	7/12/2017	163.7		
HK022	HANCOCK	7/13/2017	40.0		
HK030	HANCOCK	3/7/2017	51.5		
HK031	HANCOCK	3/7/2017	12.7		
HK032	HANCOCK	3/7/2017	130.6		
HK033	HANCOCK	3/7/2017	97.2		
HK041	HANCOCK	5/1/2017	317.5		
HK050	HANCOCK	7/3/2017	384.1		
HK060	HANCOCK	7/10/2017	294.1		
HK061	HANCOCK	7/27/2017	47.7		
HK070	HANCOCK	5/31/2017	63.6		
HK070	HANCOCK	5/31/2017	71.1	Yes	Reversal
HK071	HANCOCK	5/2/2017	62.8		
HK080	HANCOCK	3/2/2017	221.7		
HK081	HANCOCK	3/2/2017	155.6		
HK085	HANCOCK	10/31/2017	196.3	Yes	Maintenance Survey
HK085	HANCOCK	11/2/2017	203.6	Yes	I&I Study
HK100	HANCOCK	7/19/2017	22.4		
HK101	HANCOCK	7/19/2017	281.8		
HK102	HANCOCK	7/19/2017	309.1		

APPENDIX B: CCTV INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
HK103	HANCOCK	7/19/2017	332.1		
HK104	HANCOCK	5/26/2017	212.2		
HK104	HANCOCK	5/30/2017	106.6	Yes	Reversal
HK110	HANCOCK	7/10/2017	210.7		
HK200	HANCOCK	8/1/2017	2.3		
HK201	HANCOCK	8/1/2017	28.9		
HK202	HANCOCK	7/14/2017	48.9		
HK203	HANCOCK	6/29/2017	278.2		
HK204	HANCOCK	6/29/2017	291.9		
HK205	HANCOCK	6/29/2017	100.6		
HK206	HANCOCK	1/4/2017	307.2		
HK211	HANCOCK	1/3/2017	101.8		
HK212	HANCOCK	1/3/2017	122.6		
HK213	HANCOCK	1/3/2017	367.9		
HK252	HANCOCK	6/20/2017	43.3		
HK253	HANCOCK	5/2/2017	232.5		
HK254	HANCOCK	5/2/2017	3.8		
HK255	HANCOCK	5/2/2017	274.3		
HK260	HANCOCK	6/20/2017	242.3		
HK261	HANCOCK	7/27/2017	298		
HK262	HANCOCK	7/27/2017	281.6		
HK263	HANCOCK	7/27/2017	23.0		
HK274	HANCOCK	6/28/2017	82.2		
HK275	HANCOCK	5/2/2017	20.6		
HK276	HANCOCK	5/1/2017	106.4		
HK280	HANCOCK	5/2/2017	176.6		
HK285	HANCOCK	6/28/2017	81.7		
HK290	HANCOCK	6/28/2017	245.4		
HK295	HANCOCK	6/28/2017	86.4		
HK500	HANCOCK	6/29/2017	125		
HK501	HANCOCK	6/29/2017	88.9		
HK502	HANCOCK	6/29/2017	215.5		
HK503	HANCOCK	5/2/2017	219.2		
HK504	HANCOCK	5/2/2017	73.5		
HK505	HANCOCK	5/2/2017	194.5		
HK505	HANCOCK	5/23/2017	194.3	Yes	Maintenance Survey
HK506	HANCOCK	5/1/2017	116.1		
HK506	HANCOCK	5/23/2017	116.3	Yes	Maintenance Survey
HK507	HANCOCK	5/1/2017	211.0		
HK508	HANCOCK	5/1/2017	66.2		

APPENDIX B: CCTV INSPECTION LOG

City of Bangor, Maine
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Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
HK509	HANCOCK	6/16/2017	137.0		
HK510	HANCOCK	7/31/2017	22.6		
HK511	HANCOCK	1/19/2017	142.3		
HK512	HANCOCK	1/19/2017	139.3		
HK513	HANCOCK	1/19/2017	279.1		
HK514	HANCOCK	1/19/2017	307.1		
HK515	HANCOCK	1/19/2017	219.1		
HK516	HANCOCK	1/19/2017	196.7		
HK517	HANCOCK	7/10/2017	16.5		
HK518	HANCOCK	1/9/2017	228.8		
HK519	HANCOCK	1/9/2017	196.1		
HK520	HANCOCK	1/9/2017	6.9		
HK521	HANCOCK	6/26/2017	186.1		
HK522	HANCOCK	6/23/2017	183.8		
HK525	HANCOCK	5/2/2017	91.3		
HK526	HANCOCK	5/2/2017	98.6		
HK530	HANCOCK	5/1/2017	65.9		
HK531	HANCOCK	5/1/2017	123.7		
HK540	HANCOCK	6/23/2017	80		
HK550	HANCOCK	6/16/2017	78.0		
HK551	HANCOCK	6/16/2017	139		
HK552	HANCOCK	6/23/2017	328		
HK553	HANCOCK	1/20/2017	298.3		
HK554	HANCOCK	1/20/2017	294.4		
HK555	HANCOCK	1/18/2017	252.8		
HK556	HANCOCK	1/18/2017	222.6		
HK578	HANCOCK	6/20/2017	280.9		
HK579	HANCOCK	3/27/2017	162.4		
HK580	HANCOCK	3/27/2017	232.8		
HK600	HANCOCK	7/18/2017	200.9		
HK601	HANCOCK	7/18/2017	295.9		
HK602	HANCOCK	7/18/2017	45.7		
HK625	HANCOCK	5/1/2017	295.8		
HK626	HANCOCK	5/1/2017	271.7		
HK650	HANCOCK	5/1/2017	179.3		
HK651	HANCOCK	5/1/2017	239.1		
HK652	HANCOCK	5/1/2017	200.4		
HK700	HANCOCK	7/27/2017	25.1		
HK701	HANCOCK	7/27/2017	85.8		
HK702	HANCOCK	7/27/2017	105.6		

APPENDIX B: CCTV INSPECTION LOG

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Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
HK703	HANCOCK	4/24/2017	144.3		
HK704	HANCOCK	4/24/2017	110.0		
HK705	HANCOCK	4/24/2017	9.0		
HK705	HANCOCK	4/28/2017	33.1	Yes	Reversal
HK705	HANCOCK	5/1/2017	33.4	Yes	Reversal
HP055	HILDRETH-PERRY	1/30/2017	140.3		
HP055A	HILDRETH-PERRY	1/30/2017	91.2		
HP416	HILDRETH-PERRY	2/21/2017	306.3		
HP417	HILDRETH-PERRY	2/21/2017	217.3		
HP460	HILDRETH-PERRY	2/21/2017	125.7		
HP490	HILDRETH-PERRY	2/21/2017	168.3		
HP558	HILDRETH-PERRY	5/11/2017	353.5		
HP559	HILDRETH-PERRY	4/13/2017	343.2		
HP559	HILDRETH-PERRY	5/9/2017	350.9	Yes	Resurvey due to flushing
HP560	HILDRETH-PERRY	5/9/2017	345.5		
HP561	HILDRETH-PERRY	5/9/2017	348.2		
HP562	HILDRETH-PERRY	5/3/2017	163.4	Yes	Condition assessment
HP562	HILDRETH-PERRY	5/9/2017	345.4	Yes	Resurvey due to flushing
HS006	HUSSON	3/6/2017	181.2		
HS006A	HUSSON	3/6/2017	28.4		
HS009	HUSSON	3/8/2017	311.5		
HS010	HUSSON	3/8/2017	245.8		
HS011	HUSSON	3/8/2017	326.9		
HS101	HUSSON	3/17/2017	293.9		
HS102	HUSSON	3/13/2017	349.5		
HS103	HUSSON	3/17/2017	285.3		
KE201	ENDUSKEAG EAS	8/24/2017	97.5		
KW003	ENDUSKEAG WES	8/21/2017	62.6	Yes	Post-Rehab Survey
KW004	ENDUSKEAG WES	8/21/2017	133.1	Yes	Post-Rehab Survey
KW005	ENDUSKEAG WES	8/21/2017	52	Yes	Post-Rehab Survey
KW006	ENDUSKEAG WES	8/21/2017	110.9		
KW007	ENDUSKEAG WES	8/21/2017	290.8		
KW008	ENDUSKEAG WES	8/21/2017	71.3		
KW009	ENDUSKEAG WES	8/21/2017	269.0		
KW009A	ENDUSKEAG WES	8/21/2017	48.3		
KW040	ENDUSKEAG WES	2/28/2017	202.7		
KW050	ENDUSKEAG WES	2/27/2017	235.7		
KW050A	ENDUSKEAG WES	7/21/2017	197.3		
KW051	ENDUSKEAG WES	2/27/2017	12.6	Yes	Pre-Rehab Survey
KW051	ENDUSKEAG WES	2/27/2017	34.2	Yes	Pre-Rehab Survey

APPENDIX B: CCTV INSPECTION LOG

City of Bangor, Maine
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Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
KW051	ENDUSKEAG WES	2/27/2017	35.2	Yes	Pre-Rehab Survey
KW051	ENDUSKEAG WES	3/1/2017	186.3	Yes	Post-Rehab Survey
KW075	ENDUSKEAG WES	2/17/2017	157.8		
KW300A	ENDUSKEAG WES	3/1/2017	8.0		
KW301	ENDUSKEAG WES	2/28/2017	91.0	Yes	Pre-Rehab Survey
KW301	ENDUSKEAG WES	8/22/2017	97.2	Yes	Post-Rehab Survey
KW920	ENDUSKEAG WES	2/7/2017	22.1		
KW921	ENDUSKEAG WES	2/7/2017	5.8		
MB141	MEADOWBROOK	3/6/2017	333.9		
MB145	MEADOWBROOK	3/6/2017	197		
MB336	MEADOWBROOK	3/2/2017	445.1		
MB372	MEADOWBROOK	3/6/2017	231.9		
MB373	MEADOWBROOK	6/7/2017	114.1		
MB408	MEADOWBROOK	1/17/2017	255.2	Yes	Locating sewer service
MB408	MEADOWBROOK	1/18/2017	256.4	Yes	Locating sewer service
MB425	MEADOWBROOK	1/17/2017	9.6		
MB425	MEADOWBROOK	1/17/2017	187.5	Yes	Resurvey due to flushing
MB650	MEADOWBROOK	3/13/2017	71.9		
MB651	MEADOWBROOK	3/13/2017	252.3		
MB652	MEADOWBROOK	3/13/2017	232.0		
MB701	MEADOWBROOK	5/26/2017	47.5	Yes	Maintenance Survey
MB811	MEADOWBROOK	6/7/2017	369.8		
MB812	MEADOWBROOK	6/8/2017	350.1	Yes	Resurvey due to flushing
MB813	MEADOWBROOK	6/8/2017	350.8	Yes	Resurvey due to flushing
MB832	MEADOWBROOK	2/3/2017	233.5	Yes	Post-Rehab Survey
MB852	MEADOWBROOK	2/9/2017	245.1		
MB861	MEADOWBROOK	2/3/2017	193.5	Yes	Maintenance Survey
MB862	MEADOWBROOK	2/3/2017	213.4	Yes	Maintenance Survey
MB863	MEADOWBROOK	2/3/2017	222.5	Yes	Maintenance Survey
MB864	MEADOWBROOK	2/3/2017	100.4	Yes	Maintenance Survey
MB915	MEADOWBROOK	9/21/2017	88.1	Yes	Pre-Rehab Survey
MB915	MEADOWBROOK	10/26/2017	88.8	Yes	Post-Rehab Survey
MB920	MEADOWBROOK	1/25/2017	245.3		
MB921	MEADOWBROOK	1/26/2017	331.1		
MB922	MEADOWBROOK	1/26/2017	160.0		
MB922	MEADOWBROOK	1/27/2017	86.4	Yes	Reversal
MB923	MEADOWBROOK	1/27/2017	295.8		
MB970	MEADOWBROOK	2/1/2017	23.4		
MB978	MEADOWBROOK	2/2/2017	241.8		
MB981	MEADOWBROOK	5/5/2017	454.4		

APPENDIX B: CCTV INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
MB995	MEADOWBROOK	2/2/2017	338.2		
MB996	MEADOWBROOK	2/2/2017	352.5		
OC030	OLD CAPEHART	1/13/2017	93.0		
OC201	OLD CAPEHART	1/13/2017	251.0		
OC250	OLD CAPEHART	1/13/2017	216.7		
OC442	OLD CAPEHART	1/12/2017	268.0		
OC443	OLD CAPEHART	1/12/2017	254.6	Yes	Resurvey due to previous issues
OC905	OLD CAPEHART	1/25/2017	277.7		
OC906	OLD CAPEHART	1/26/2017	231.8		
PJ019	PENJAJAWOC	6/19/2017	147.6		
PJ027	PENJAJAWOC	4/28/2017	83		
PJ028	PENJAJAWOC	4/28/2017	197.8		
PJ029	PENJAJAWOC	4/28/2017	88.5		
PJ030	PENJAJAWOC	4/28/2017	94.3		
PJ031	PENJAJAWOC	4/20/2017	252.7		
PJ032	PENJAJAWOC	4/27/2017	331.8		
PJ033	PENJAJAWOC	4/27/2017	228.4		
PJ034	PENJAJAWOC	4/27/2017	37.7		
PJ035	PENJAJAWOC	4/27/2017	42.7		
PJ036	PENJAJAWOC	4/26/2017	122.4		
PJ506	PENJAJAWOC	9/29/2017	239.3		
PJ507	PENJAJAWOC	9/29/2017	52.6		
PJ508	PENJAJAWOC	9/29/2017	233.3		
PJ509	PENJAJAWOC	9/28/2017	266		
PJ510	PENJAJAWOC	9/28/2017	192.4		
PJ511	PENJAJAWOC	9/28/2017	260.1		
PJ511A	PENJAJAWOC	9/28/2017	360.5		
PJ512	PENJAJAWOC	9/28/2017	231.5		
PJ513	PENJAJAWOC	9/28/2017	230.0		
PJ550	PENJAJAWOC	9/25/2017	218.4	Yes	Resurvey due to flushing
PJ550	PENJAJAWOC	9/26/2017	217.1	Yes	Resurvey due to flushing
PJ551	PENJAJAWOC	9/25/2017	7.9	Yes	Resurvey due to flushing
PJ551	PENJAJAWOC	9/25/2017	51.5	Yes	Resurvey due to flushing
PJ551	PENJAJAWOC	9/26/2017	51.0	Yes	Resurvey due to flushing
PJ552	PENJAJAWOC	9/25/2017	248.0		
PJ552A	PENJAJAWOC	9/28/2017	72.5		
PJ553	PENJAJAWOC	9/28/2017	142.5		
PJ554	PENJAJAWOC	9/28/2017	139.2		
PJ555	PENJAJAWOC	9/27/2017	57.9		
PJ556	PENJAJAWOC	9/27/2017	225.0		

APPENDIX B: CCTV INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Pipe Segment ID	Subsection	Inspection Date	Length of Inspection (FT)	Repeat Inspection	Justification for Repeat Inspection
PJ557	PENJAJAWOC	9/27/2017	379.0		
PJ700	PENJAJAWOC	4/26/2017	294.2		
PJ701	PENJAJAWOC	4/26/2017	337		
PJ703	PENJAJAWOC	4/26/2017	337.8		
PJ704	PENJAJAWOC	4/26/2017	130.1		
PJ906	PENJAJAWOC	2/10/2017	247.4		
PJ907	PENJAJAWOC	2/10/2017	218		
PJ908	PENJAJAWOC	2/10/2017	243		
PJ909	PENJAJAWOC	1/11/2017	251.4		
PJ910	PENJAJAWOC	1/11/2017	249.2		
PJ911	PENJAJAWOC	1/11/2017	250.7		
PJ912	PENJAJAWOC	1/11/2017	253.9		
PJ913	PENJAJAWOC	1/11/2017	242.4		
PJ914	PENJAJAWOC	1/11/2017	249.3		
PJ915	PENJAJAWOC	1/11/2017	251.2		
PJ930	PENJAJAWOC	2/10/2017	261.5		
PJ931	PENJAJAWOC	2/10/2017	258.3		
PJ932	PENJAJAWOC	2/10/2017	242.2		
PJ933	PENJAJAWOC	2/10/2017	239.4		
PJ936	PENJAJAWOC	2/10/2017	247.4		
PJ937	PENJAJAWOC	2/10/2017	240.9		
PJ938	PENJAJAWOC	2/10/2017	175.9		
WL025	WOODLAWN	6/13/2017	282.8	Yes	Maintenance Survey
WL501	WOODLAWN	3/13/2017	366.1		
WL502	WOODLAWN	3/13/2017	225.9		
WL503	WOODLAWN	3/13/2017	230.3		
WL504	WOODLAWN	3/13/2017	307.8		
WL511	WOODLAWN	3/13/2017	193.1		
WL512	WOODLAWN	3/13/2017	195.4		
WL513	WOODLAWN	3/13/2017	183.3		
WL520	WOODLAWN	3/20/2017	327.3		
WL521	WOODLAWN	3/20/2017	266.5		
WL530	WOODLAWN	3/10/2017	239.1		
WL601	WOODLAWN	3/20/2017	62.7		
WL602	WOODLAWN	3/20/2017	112.7		
WL602	WOODLAWN	3/20/2017	151.5	Yes	Reversal
Total Feet			133,654		
Total Miles			25		

Appendix C. Manhole Inspection Log

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
AB019	ARCTIC BROOK	3/10/2017	YES	NEW MANHOLE
AB401	ARCTIC BROOK	2/6/2017		
AB405	ARCTIC BROOK	2/6/2017		
AB500	ARCTIC BROOK	3/10/2017		
AB501	ARCTIC BROOK	1/20/2017		
AB502	ARCTIC BROOK	1/20/2017		
AB503	ARCTIC BROOK	1/19/2017		
AB605	ARCTIC BROOK	4/24/2017		
BV203	BARKERSVILLE	6/13/2017		
BV223	BARKERSVILLE	10/3/2017		
BV301	BARKERSVILLE	1/30/2017		
BV330	BARKERSVILLE	1/30/2017		
BV465	BARKERSVILLE	8/25/2017		
BV465A	BARKERSVILLE	8/25/2017		
BV466	BARKERSVILLE	1/26/2017		
BV501	BARKERSVILLE	3/27/2017		
BV502	BARKERSVILLE	3/27/2017		
BV510	BARKERSVILLE	3/27/2017		
BV540	BARKERSVILLE	3/27/2017		
BV575	BARKERSVILLE	3/29/2017		
BV585	BARKERSVILLE	3/29/2017		
BV600	BARKERSVILLE	12/5/2017		
BV610	BARKERSVILLE	12/6/2017		
BV615	BARKERSVILLE	12/5/2017		
BV616	BARKERSVILLE	12/5/2017		
BV626	BARKERSVILLE	12/14/2017		
BV627	BARKERSVILLE	12/14/2017		
BS018	BLANCHARD STREET	2/10/2017		
BS020	BLANCHARD STREET	2/9/2017		
CW008	CARDINAL WAY	12/26/2017		
CW009	CARDINAL WAY	3/16/2017		
CW010	CARDINAL WAY	12/26/2017		
CW011	CARDINAL WAY	12/26/2017		
CW012	CARDINAL WAY	3/16/2017		
CW013	CARDINAL WAY	12/26/2017		
CW014	CARDINAL WAY	12/26/2017		
CW015	CARDINAL WAY	12/26/2017		
CW016	CARDINAL WAY	3/16/2017		
CW050	CARDINAL WAY	3/16/2017		
CW051	CARDINAL WAY	12/26/2017		

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
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Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
CB001	CARR BROOK	6/1/2017		
CB002	CARR BROOK	5/11/2017		
CB004	CARR BROOK	7/17/2017		
CB005	CARR BROOK	5/11/2017		
CB006	CARR BROOK	5/11/2017		
CB007	CARR BROOK	5/11/2017		
CB008	CARR BROOK	5/11/2017		
CB009	CARR BROOK	5/11/2017		
CB010	CARR BROOK	5/11/2017		
CB011	CARR BROOK	5/12/2017		
CB012	CARR BROOK	6/1/2017		
CB013	CARR BROOK	5/11/2017		
CB014	CARR BROOK	5/19/2017		
CB015	CARR BROOK	5/19/2017		
CB019	CARR BROOK	6/23/2017		
CB020	CARR BROOK	5/19/2017		
CB024	CARR BROOK	7/17/2017		
CB025	CARR BROOK	7/17/2017		
CB026	CARR BROOK	5/18/2017		
CB027	CARR BROOK	5/18/2017		
CB028	CARR BROOK	5/18/2017		
CB029	CARR BROOK	5/18/2017		
CB030	CARR BROOK	5/18/2017		
CB032	CARR BROOK	5/18/2017		
CB034	CARR BROOK	5/18/2017		
CB035	CARR BROOK	5/26/2017		
CB050	CARR BROOK	5/11/2017		
CB092	CARR BROOK	5/18/2017		
CB100	CARR BROOK	5/11/2017		
CB101	CARR BROOK	6/1/2017		
CB101A	CARR BROOK	5/5/2017		
CB102	CARR BROOK	5/12/2017		
CB103	CARR BROOK	5/12/2017		
CB104	CARR BROOK	5/18/2017		
CB105	CARR BROOK	5/19/2017		
CB106	CARR BROOK	5/18/2017		
CB109	CARR BROOK	3/29/2017		
CB111	CARR BROOK	5/26/2017		
CB112	CARR BROOK	5/19/2017		
CB113	CARR BROOK	5/19/2017		

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
CB114	CARR BROOK	5/19/2017		
CB115	CARR BROOK	5/19/2017		
CB120	CARR BROOK	6/1/2017		
CB163	CARR BROOK	6/1/2017		
CB165	CARR BROOK	6/23/2017		
CB200	CARR BROOK	5/11/2017		
CB201A	CARR BROOK	5/11/2017		
CB201C	CARR BROOK	6/1/2017		
CB212	CARR BROOK	5/23/2017		
CB250	CARR BROOK	5/11/2017		
CB251	CARR BROOK	5/11/2017		
CB252	CARR BROOK	5/11/2017		
CB253	CARR BROOK	5/11/2017		
CB260	CARR BROOK	5/11/2017		
CB261	CARR BROOK	5/11/2017		
CB262	CARR BROOK	5/11/2017		
CB270	CARR BROOK	5/11/2017		
CB271	CARR BROOK	5/11/2017		
CB280	CARR BROOK	5/11/2017		
CB300	CARR BROOK	5/11/2017		
CB301	CARR BROOK	5/11/2017		
CB302	CARR BROOK	5/11/2017		
CB303	CARR BROOK	5/11/2017		
CB304	CARR BROOK	5/11/2017		
CB404	CARR BROOK	3/10/2017		
CB405	CARR BROOK	5/15/2017		
CB406	CARR BROOK	5/2/2017		
CB407	CARR BROOK	5/15/2017		
CB450	CARR BROOK	5/15/2017		
CB451	CARR BROOK	5/16/2017		
CB500	CARR BROOK	5/16/2017		
CB501	CARR BROOK	5/16/2017		
CB502	CARR BROOK	5/16/2017		
CB503	CARR BROOK	5/16/2017		
CB504	CARR BROOK	5/16/2017		
CB505	CARR BROOK	5/16/2017		
CB506	CARR BROOK	5/16/2017		
CB551	CARR BROOK	5/16/2017		
CB601	CARR BROOK	5/16/2017		
CB602	CARR BROOK	5/16/2017		

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
CB603	CARR BROOK	5/16/2017		
CB650	CARR BROOK	5/16/2017		
CB700	CARR BROOK	5/16/2017		
CB801	CARR BROOK	5/23/2017		
CB850	CARR BROOK	5/17/2017		
CB851	CARR BROOK	5/17/2017		
CM251	CEMETERY	1/31/2017		
CM252	CEMETERY	1/31/2017		
CM301	CEMETERY	12/28/2017		
CM515	CEMETERY	1/23/2017		
CM590	CEMETERY	12/28/2017		
CM591	CEMETERY	12/28/2017		
CM651	CEMETERY	12/28/2017		
CM652	CEMETERY	12/28/2017		
CM680	CEMETERY	12/27/2017		
CM690	CEMETERY	12/27/2017		
CM691	CEMETERY	12/27/2017		
CM703	CEMETERY	12/27/2017		
CM705	CEMETERY	12/27/2017		
CM711	CEMETERY	1/23/2017		
CM730	CEMETERY	12/27/2017		
CM731	CEMETERY	12/27/2017		
CM740	CEMETERY	12/27/2017		
CM741	CEMETERY	12/27/2017		
CM750	CEMETERY	12/27/2017		
CM751	CEMETERY	12/27/2017		
CM760	CEMETERY	12/27/2017		
CM771	CEMETERY	12/27/2017		
CM850	CEMETERY	12/28/2017		
CM871	CEMETERY	12/28/2017		
CM880	CEMETERY	12/28/2017		
CM951	CEMETERY	12/28/2017		
DB001	DAVIS BROOK	3/27/2017		
DB002	DAVIS BROOK	3/27/2017		
DB003	DAVIS BROOK	3/27/2017		
DB024	DAVIS BROOK	3/22/2017		
DB105	DAVIS BROOK	12/27/2017		
DB106	DAVIS BROOK	12/27/2017		
DB107	DAVIS BROOK	12/27/2017		
DB108	DAVIS BROOK	12/27/2017		

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
DB236	DAVIS BROOK	4/7/2017		
DB241	DAVIS BROOK	3/17/2017		
DB243	DAVIS BROOK	4/7/2017		
DB306	DAVIS BROOK	3/22/2017		
DB420	DAVIS BROOK	2/2/2017		
DB421	DAVIS BROOK	2/1/2017		
DB422	DAVIS BROOK	2/2/2017		
DB520	DAVIS BROOK	2/9/2017		
DB525	DAVIS BROOK	2/9/2017		
DB535	DAVIS BROOK	2/2/2017		
DB536	DAVIS BROOK	2/2/2017		
DB540	DAVIS BROOK	2/9/2017		
DB600	DAVIS BROOK	4/26/2017		
DB601	DAVIS BROOK	4/26/2017		
DB850	DAVIS BROOK	3/22/2017		
DB916	DAVIS BROOK	3/22/2017		
DW100	DOW	6/13/2017		
DW100A	DOW	6/13/2017		
DW102	DOW	9/18/2017		
DW500	DOW	9/21/2017		
DW604	DOW	6/13/2017		
FS601	FOURTEENTH STREET	12/26/2017		
FS602	FOURTEENTH STREET	12/26/2017		
FS603	FOURTEENTH STREET	12/26/2017		
HK013	HANCOCK	3/3/2017		
HK041	HANCOCK	5/2/2017		
HK206	HANCOCK	1/6/2017		
HK207	HANCOCK	1/6/2017		
HK208	HANCOCK	1/6/2017		
HK210	HANCOCK	1/6/2017		
HK211	HANCOCK	1/6/2017		
HK212	HANCOCK	1/6/2017		
HK213	HANCOCK	1/6/2017		
HK250	HANCOCK	1/9/2017		
HK254	HANCOCK	5/2/2017		
HK275	HANCOCK	5/2/2017		
HK276	HANCOCK	5/2/2017		
HK280	HANCOCK	5/2/2017		
HK510	HANCOCK	1/10/2017		
HK511	HANCOCK	1/10/2017		

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
HK512	HANCOCK	1/10/2017		
HK513	HANCOCK	1/10/2017		
HK514	HANCOCK	1/10/2017		
HK515	HANCOCK	1/10/2017		
HK520	HANCOCK	1/9/2017		
HK521	HANCOCK	1/10/2017		
HK553	HANCOCK	1/19/2017		
HK554	HANCOCK	1/19/2017		
HK555	HANCOCK	1/19/2017		
HK578	HANCOCK	3/27/2017		
HK579	HANCOCK	3/27/2017		
HK580	HANCOCK	3/27/2017		
HK625	HANCOCK	1/20/2017		
HK626	HANCOCK	1/20/2017		
HK650	HANCOCK	1/20/2017		
HK651	HANCOCK	1/20/2017		
HK652	HANCOCK	1/20/2017		
HK703	HANCOCK	4/24/2017		
HP050	HILDRETH-PERRY	2/2/2017		
HP055	HILDRETH-PERRY	2/2/2017		
HP080	HILDRETH-PERRY	10/5/2017		
HP561	HILDRETH-PERRY	5/3/2017		
HK033	HUSSON	3/7/2017		
HS009	HUSSON	3/8/2017		
HS010	HUSSON	3/8/2017		
HS101	HUSSON	3/13/2017		
HS102	HUSSON	3/13/2017		
KW004	KENDUSKEAG WEST	8/22/2017		
KW005	KENDUSKEAG WEST	8/21/2017		
KW006	KENDUSKEAG WEST	8/22/2017		
KW007	KENDUSKEAG WEST	8/22/2017		
KW008	KENDUSKEAG WEST	8/22/2017		
KW009	KENDUSKEAG WEST	8/21/2017		
KW009A	KENDUSKEAG WEST	8/22/2017		
KW051	KENDUSKEAG WEST	3/1/2017		
KW100B	KENDUSKEAG WEST	12/27/2017		
KW101	KENDUSKEAG WEST	12/27/2017		
KW102A	KENDUSKEAG WEST	1/30/2017		
KW110	KENDUSKEAG WEST	1/30/2017		
KW301	KENDUSKEAG WEST	3/1/2017		

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
MB003	MEADOWBROOK	7/13/2017		
MB004	MEADOWBROOK	7/13/2017		
MB005	MEADOWBROOK	7/13/2017		
MB006	MEADOWBROOK	7/13/2017		
MB015	MEADOWBROOK	4/13/2017		
MB016	MEADOWBROOK	4/13/2017		
MB017	MEADOWBROOK	4/13/2017		
MB018	MEADOWBROOK	4/13/2017		
MB019	MEADOWBROOK	4/13/2017		
MB020	MEADOWBROOK	4/13/2017		
MB021	MEADOWBROOK	4/13/2017		
MB022	MEADOWBROOK	4/13/2017		
MB112	MEADOWBROOK	3/6/2017		
MB140	MEADOWBROOK	3/6/2017		
MB335	MEADOWBROOK	3/2/2017		
MB372	MEADOWBROOK	2/21/2017		
MB500	MEADOWBROOK	4/13/2017		
MB650	MEADOWBROOK	3/13/2017		
MB651	MEADOWBROOK	3/13/2017		
MB652	MEADOWBROOK	3/13/2017		
MB729	MEADOWBROOK	12/27/2017		
MB765	MEADOWBROOK	2/17/2017		
MB767	MEADOWBROOK	2/17/2017		
MB835	MEADOWBROOK	2/9/2017		
MB840	MEADOWBROOK	12/26/2017		
MB852	MEADOWBROOK	12/26/2017		
MB853	MEADOWBROOK	12/26/2017		
MB870	MEADOWBROOK	12/26/2017		
MB915	MEADOWBROOK	10/26/2017		
MB920	MEADOWBROOK	1/25/2017		
MB922	MEADOWBROOK	1/27/2017		
OC030	OLD CAPEHART	1/13/2017		
OC101	OLD CAPEHART	2/17/2017		
OC102	OLD CAPEHART	2/17/2017		
OC201	OLD CAPEHART	1/13/2017		
OC250	OLD CAPEHART	1/13/2017		
OC442	OLD CAPEHART	1/12/2017		
OC443	OLD CAPEHART	1/12/2017		
OC903	OLD CAPEHART	1/26/2017		
OC904	OLD CAPEHART	1/26/2017		

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
OC905	OLD CAPEHART	1/26/2017		
OC906	OLD CAPEHART	12/26/2017		
OC910	OLD CAPEHART	1/26/2017		
OC911	OLD CAPEHART	1/25/2017		
OC921	OLD CAPEHART	12/26/2017		
PJ037	PENJAJAWOC	12/26/2017		
PJ045	PENJAJAWOC	12/27/2017		
PJ046	PENJAJAWOC	12/27/2017		
PJ047	PENJAJAWOC	12/27/2017		
PJ048	PENJAJAWOC	12/27/2017		
PJ049	PENJAJAWOC	12/27/2017		
PJ050	PENJAJAWOC	12/27/2017		
PJ051	PENJAJAWOC	12/26/2017		
PJ052	PENJAJAWOC	12/26/2017		
PJ053	PENJAJAWOC	12/26/2017		
PJ054	PENJAJAWOC	12/26/2017		
PJ055	PENJAJAWOC	12/26/2017		
PJ056	PENJAJAWOC	12/26/2017		
PJ059	PENJAJAWOC	12/26/2017		
PJ060	PENJAJAWOC	12/26/2017		
PJ061	PENJAJAWOC	12/26/2017		
PJ062	PENJAJAWOC	12/26/2017		
PJ110	PENJAJAWOC	12/27/2017		
PJ150	PENJAJAWOC	12/27/2017		
PJ151	PENJAJAWOC	12/27/2017		
PJ152	PENJAJAWOC	12/27/2017		
PJ153	PENJAJAWOC	12/27/2017		
PJ510	PENJAJAWOC	9/28/2017		
PJ511	PENJAJAWOC	9/28/2017		
PJ513	PENJAJAWOC	9/28/2017		
PJ550	PENJAJAWOC	9/25/2017		
PJ551	PENJAJAWOC	9/25/2017		
PJ556	PENJAJAWOC	9/27/2017		
PJ706	PENJAJAWOC	12/27/2017		
PJ707	PENJAJAWOC	12/26/2017		
PJ708	PENJAJAWOC	12/26/2017		
PJ709	PENJAJAWOC	12/26/2017		
PJ907	PENJAJAWOC	2/10/2017		
PJ911	PENJAJAWOC	1/11/2017		
PJ912	PENJAJAWOC	1/11/2017		

APPENDIX C: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2017

Manhole ID	Subsection	Date of Inspection	Repeat Inspection	Justification for Repeat Inspection
PJ914	PENJAJAWOC	1/11/2017		
PJ931	PENJAJAWOC	2/10/2017		
PJ937	PENJAJAWOC	2/10/2017		
PJ951	PENJAJAWOC	12/29/2017		
PJ952	PENJAJAWOC	12/29/2017		
PJ953	PENJAJAWOC	12/29/2017		
PJ955	PENJAJAWOC	12/29/2017		
WL511	WOODLAWN	3/13/2017		
TOTAL MANHOLES INSPECTED				328

Appendix D. CCTV Repair, Replacement, and Upgrade Log

APPENDIX D: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine
Calendar Year 2017

Subsection	Pipe Segment ID	Description of Repair or Defect	Date Repaired or Future Implementation Schedule
Arctic Brook	AB017	hinge cracks, infiltration, roots	2018
Arctic Brook	AB018	UV CIPP 265' of 24" VCP	6/23/2017
Arctic Brook	AB019A	replaced 25' of 24" VCP with PVC	6/1/2017
Arctic Brook	AB019A	UV CIPP 195' of 24" VCP	6/23/2017
Arctic Brook	AB400	UV CIPP 555' of 15" VCP	6/23/2017
Arctic Brook	AB401	UV CIPP 345' of 15" VCP	6/23/2017
Arctic Brook	AB401A	replaced 200' of 15" VCP with 15" PVC	4/28/2017
Arctic Brook	AB503	hinge fractures, infiltration	within 5 years
Arctic Brook	AB550	replaced 12' of 8" main with PVC	11/8/2017
Arctic Brook	AB551	replaced 21' of 8" main with PVC	11/9/2017
Arctic Brook	AB561	replaced 144' of 8" main with PVC	11/7/2017
Arctic Brook	AB590	replaced 55' of 8" VCP with PVC	6/9/2017
Airport	AP203	UV lined 166'	10/2/2017
Airport	AP330	sag in line	2018
Airport	AP331	fractures	2018
Airport	AP332	cracks, break, sag	2018
Airport	AP342	bottom broken, sag	2018
Airport	AP343	cracks, break, roots	2018
Airport	AP344	break, hole, roots	2018
Airport	AP345	hole, break, roots	2018
Airport	AP346	cracks, grease, hole	2018
Airport	AP451	replaced 6' with 8" PVC	10/18/2017
Airport	AP721	replaced 13' of 8" main with PVC	7/14/2017
Burleigh	BU560	sag in line, broken near manhole	within 10 years
Burleigh	BU651	spot repair to reduce I/I	11/15/2017
Barkersville	BV055	cracks, roots, offset joint	within 5 years
Barkersville	BV120	cracks, roots, breaks, sag	2018
Barkersville	BV330	replaced 82' of 12" main with PVC	8/18/2017
Barkersville	BV335	replaced 10' with PVC	8/11/2017
Barkersville	BV420	small hole	within 5 years
Barkersville	BV451	replaced 27' of 10" main	9/20/2017
Barkersville	BV465	replaced 37' of 12" main with PVC	9/21/2017
Barkersville	BV466	replaced 31' of 12" main with PVC	9/22/2017
Barkersville	BV467	replaced 70' of 12" main with PVC	10/12/2017
Barkersville	BV467	replaced 87' of 12" main with PVC	10/12/2017
Barkersville	BV545	broken, collapsing	2018
Barkersville	BV587	multiple fractures, missing bricks	within 5 years
Barkersville	BV602	hinge cracks, longitudinal cracks, roots	within 5 years
Barkersville	BV627	multiple fractures, missing bricks	2018

APPENDIX D: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine
Calendar Year 2017

Subsection	Pipe Segment ID	Description of Repair or Defect	Date Repaired or Future Implementation Schedule
Barkersville	BV715	multiple cracks, sags, hole at service	2018
Barkersville	BV726	bottom broken	2018
Barkersville	BV741	multiple cracks	within 10 years
Barkersville	BV762	multiple cracks, hinge cracks	within 5 years
Barkersville	BV765	multiple cracks, deformed	2018
Barkersville	BV820	replaced 38' of main with 10" PVC	9/21/2017
Carr Brook	CB037	break, cracks	2018
Carr Brook	CB113	break	2018
Carr Brook	CB126	hole, spiral crack	2018
Carr Brook	CB132	fractures, sag, roots	within 5 years
Carr Brook	CB134	replaced 9' of 8" main with PVC	10/24/2017
Carr Brook	CB166	hole at joint, infiltration	2018
Carr Brook	CB215	broken near end	2018
Carr Brook	CB253	broken, collapsing near end	2018
Carr Brook	CB403	replaced 16' of 12" VCP with PVC	5/23/2017
Carr Brook	CB406	fractures, broken at joint	within 10 years
Carr Brook	CB502	broken near manhole	2018
Carr Brook	CB504	small break, roots	2018
Carr Brook	CB505	fractures, hinge cracks	within 5 years
Carr Brook	CB506	fractures, cracks	within 5 years
Carr Brook	CB550	fractures, roots	within 5 years
Carr Brook	CB603	fractures, cracks	within 10 years
Carr Brook	CB701	break, fractures, cracks	2018
Carr Brook	CB702	bottom missing, broken, deformed	2018
Carr Brook	CB802	cracks at joints, roots	within 10 years
Cemetery	CM691	multiple cracks, fractures, roots	within 10 years
Davis Brook	DB421	small hole near material change	within 10 years
Davis Brook	DB510	cracks, roots	2018
Davis Brook	DB520	cracks, root blockage	2018
Davis Brook	DB535	broken, deformed, collapsing	2018
Davis Brook	DB552	replaced 9' of 10" main with PVC	8/24/2017
Davis Brook	DB564	hinge fractures, starting deformation	2018
Davis Brook	DB601	replaced 26' of 12" main with PVC	5/5/2017
Davis Brook	DB605	cracks	within 10 years
Davis Brook	DB611	replaced 14' of main with 24" PVC	8/4/2017
Davis Brook	DB998	replaced 65.7' timber box concrete	3/1/2017
Dow	DW500	UV lined 200' main	10/2/2017
Hancock	HK022	hole near material change	within 5 years
Hancock	HK060	hole developing at joint	within 5 years

APPENDIX D: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine
Calendar Year 2017

Subsection	Pipe Segment ID	Description of Repair or Defect	Date Repaired or Future Implementation Schedule
Hancock	HK071	bottom eroding, hole at joint, hinge frac	within 5 years
Hancock	HK085	multiple cracks, small hole	2018
Hancock	HK104	offset joint with hole	2018
Hancock	HK700	hinge cracks, collapsing	2018
Hancock	HK703	broken pipe near end, collapsing	2018
Hancock	HK705	bottom broken	2018
Husson	HS006	roots, fracture	within 5 years
Kenduskeag West	KW004	installed 188' of 24" PVC main	8/24/2017
Kenduskeag West	KW006	installed 111' of 24" PVC main	8/24/2017
Kenduskeag West	KW007	installed 291' of 24" PVC main	8/24/2017
Kenduskeag West	KW008	installed 72' of 24" PVC main	8/24/2017
Kenduskeag West	KW009	installed 270' of 24" PVC main	8/24/2017
Kenduskeag West	KW009A	installed 49' of 24" PVC main	8/24/2017
Keaduskeag West	KW051	replaced 6' of 12" CP with PVC	2/28/2017
Kenduskeag West	KW051	UV lined 200' main	11/3/2017
Meadowbrook	MB915	replaced 90' of 8" main with PVC	10/24/2017
Old Capehart	OC201	broken at service	within 5 years
Woodlawn	WL601	hole at joint	2018

Appendix E. Cleaning Log

APPENDIX E: CLEANING LOG

City of Bangor, Maine
Calendar Year 2017

Date of Cleaning	Subsection	Pipe Segment ID	Length of Pipe Segment	# Passes	Approx. Length Cleaned (FT)	Repeat Cleaning	Justification for Repeat Cleaning
1/11/17	ARCTIC BROOK	AB552	75	2	150	NO	
1/11/17	ARCTIC BROOK	AB562	125	2	250	NO	
1/11/17	HUSSON	HS006A	160	1	160	NO	
1/11/17	HUSSON	HS006B	50	1	50	NO	
1/11/17	HUSSON	HS008	75	1	75	NO	
1/11/17	HUSSON	HS500	325	1	325	NO	
1/12/17	AIRPORT	AP415A	175	4	700	NO	
1/12/17	AIRPORT	AP417	100	1	100	NO	
1/12/17	AIRPORT	AP418	350	1	350	NO	
1/12/17	BURLEIGH ROAD	BU532	175	1	175	NO	TROUBLE SPOT
1/12/17	BURLEIGH ROAD	BU536	275	1	275	NO	
1/12/17	DOW	DW265	125	2	250	NO	
1/12/17	DOW	DW614	200	2	400	NO	
1/12/17	OLD CAPEHART	OC251	300	2	600	NO	
1/12/17	OLD CAPEHART	OC402	175	1	175	NO	
1/12/17	OLD CAPEHART	OC414	250	2	500	NO	
1/12/17	OLD CAPEHART	OC415	275	2	550	NO	
1/12/17	OLD CAPEHART	OC420	450	1	450	NO	
1/12/17	OLD CAPEHART	OC422	400	1	400	NO	
1/12/17	OLD CAPEHART	OC441	250	2	500	NO	
1/12/17	OLD CAPEHART	OC442	300	2	600	NO	
1/12/17	OLD CAPEHART	OC602	315	2	630	NO	
1/12/17	OLD CAPEHART	OC650	250	2	500	NO	
1/13/17	HANCOCK	HK016	400	3	1200	NO	
1/13/17	HANCOCK	HK070	250	3	750	NO	
1/13/17	HANCOCK	HK080	300	5	1500	NO	
1/13/17	HANCOCK	HK081	175	4	700	NO	
1/13/17	HANCOCK	HK085	265	5	1325	NO	
1/17/17	GLENWOOD	GW004	225	2	450	NO	
1/17/17	GLENWOOD	GW005	125	2	250	NO	
1/17/17	GLENWOOD	GW101	250	4	1000	NO	
1/17/17	GLENWOOD	GW102	325	2	650	NO	
1/17/17	HANCOCK	HK013	250	3	750	NO	
1/17/17	HANCOCK	HK014	275	5	1375	NO	
1/17/17	HANCOCK	HK015	225	3	675	NO	
1/17/17	HANCOCK	HK060	300	3	900	NO	
1/17/17	HANCOCK	HK554	300	2	600	NO	
1/17/17	HANCOCK	HK555	265	2	530	NO	
1/17/17	HANCOCK	HK556	250	2	500	NO	
1/19/17	CARR BROOK	CB032	250	2	500	NO	
1/19/17	CARR BROOK	CB750	300	2	600	NO	
1/19/17	DAVIS BROOK	DB242	275	3	825	NO	
1/19/17	DAVIS BROOK	DB250	300	3	900	NO	
1/19/17	HANCOCK	HK521	200	2	400	NO	
1/19/17	HANCOCK	HK522	250	2	500	NO	
1/20/17	WOODLAWN	WL504	325	2	650	NO	

APPENDIX E: CLEANING LOG

City of Bangor, Maine
Calendar Year 2017

Date of Cleaning	Subsection	Pipe Segment ID	Length of Pipe Segment	# Passes	Approx. Length Cleaned (FT)	Repeat Cleaning	Justification for Repeat Cleaning
1/20/17	WOODLAWN	WL530	250	3	750	NO	
1/20/17	WOODLAWN	WL531	400	3	1200	NO	
1/25/17	WESTLAND	WL501	375	7	2625	NO	
1/25/17	WESTLAND	WL502	250	3	750	NO	
1/25/17	WESTLAND	WL503	250	2	500	NO	
1/25/17	WESTLAND	WL505	350	2	700	NO	
1/25/17	WESTLAND	WL506	325	2	650	NO	
1/26/17	WESTLAND	WL511	200	3	600	NO	
1/26/17	WESTLAND	WL512	215	2	430	NO	
1/26/17	WESTLAND	WL513	225	2	450	NO	
1/26/17	WESTLAND	WL520	350	2	700	NO	
1/26/17	WESTLAND	WL521	275	2	550	NO	
1/26/17	WOODLAWN	WL602	225	2	450	NO	
2/21/17	ARCTIC BROOK	AB550	400	1	400	NO	
2/21/17	ARCTIC BROOK	AB560	375	3	1125	NO	
2/21/17	MEADOWBROOK	MB372	240	3	720	NO	
2/22/17	ARCTIC BROOK	AB552	75	1	75	YES	TROUBLE SPOT
2/22/17	ARCTIC BROOK	AB562	125	1	125	YES	TROUBLE SPOT
2/22/17	DAVIS BROOK	DB240	190	1	190	NO	
2/22/17	DAVIS BROOK	DB564	140	1	140	NO	
2/22/17	DAVIS BROOK	DB565	150	1	150	YES	TROUBLE SPOT
2/22/17	DAVIS BROOK	DB566	170	1	170	YES	TROUBLE SPOT
2/22/17	DAVIS BROOK	DB595	425	2	850	YES	
2/22/17	OLD CAPEHART	OC421	350	1	350	YES	TROUBLE SPOT
2/23/17	ARCTIC BROOK	AB550	400	1	400	YES	PRE-CONSTRUCTION FLUSHING
2/23/17	ARCTIC BROOK	AB560	375	3	1125	YES	PRE-CONSTRUCTION FLUSHING
2/23/17	AIRPORT	AP415A	165	3	495	YES	TROUBLE SPOT
2/23/17	AIRPORT	AP417	90	2	180	YES	TROUBLE SPOT
2/23/17	AIRPORT	AP418	290	2	580	YES	TROUBLE SPOT
2/23/17	CARR BROOK	CB126	350	2	700	NO	
2/23/17	CARR BROOK	CB134	350	2	700	NO	
2/23/17	CARR BROOK	CB406	350	2	700	NO	
2/23/17	DOW	DW265	110	1	110	YES	TROUBLE SPOT
2/23/17	DOW	DW614	200	2	400	YES	TROUBLE SPOT
2/23/17	MEADOWBROOK	MB996	375	2	750	NO	
2/24/17	ARCTIC BROOK	AB550	400	4	1600	YES	PRE-CONSTRUCTION FLUSHING
2/24/17	ARCTIC BROOK	AB551	350	3	1050	NO	
2/24/17	CARR BROOK	CB131	275	3	825	NO	
2/24/17	CARR BROOK	CB141	500	2	1000	NO	
2/24/17	CARR BROOK	CB142	200	2	400	NO	
2/24/17	CARR BROOK	CB145	275	2	550	NO	
2/27/17	CARR BROOK	CB123	300	4	1200	NO	
2/27/17	CARR BROOK	CB124	350	3	1050	NO	
2/27/17	CARR BROOK	CB125	350	2	700	NO	
2/27/17	CARR BROOK	CB126	350	1	350	YES	TROUBLE SPOT
2/27/17	CARR BROOK	CB130	225	5	1125	NO	

APPENDIX E: CLEANING LOG

City of Bangor, Maine
Calendar Year 2017

Date of Cleaning	Subsection	Pipe Segment ID	Length of Pipe Segment	# Passes	Approx. Length Cleaned (FT)	Repeat Cleaning	Justification for Repeat Cleaning
2/28/17	BURLEIGH ROAD	BU551	350	2	700	NO	PRE-CCTV SURVEY
2/28/17	BURLEIGH ROAD	BU552	325	2	650	NO	
2/28/17	BURLEIGH ROAD	BU553	400	2	800	NO	
2/28/17	BURLEIGH ROAD	BU554	400	2	800	NO	
2/28/17	CEMETERY	CM511	225	2	450	NO	
2/28/17	CEMETERY	CM512	300	2	600	NO	
2/28/17	CEMETERY	CM513	300	2	600	NO	
2/28/17	CEMETERY	CM514	30	2	60	NO	
2/28/17	CEMETERY	CM515	250	2	500	NO	
2/28/17	CEMETERY	CM517	300	2	600	NO	
2/28/17	CEMETERY	CM580	300	2	600	NO	
2/28/17	CEMETERY	CM581	225	2	450	NO	
3/1/17	BURLEIGH ROAD	BU541	300	2	600	NO	
3/1/17	BURLEIGH ROAD	BU542	275	2	550	NO	
3/1/17	BURLEIGH ROAD	BU550	200	2	400	NO	
3/1/17	BURLEIGH ROAD	BU551	350	2	700	YES	PRE-CCTV SURVEY
3/1/17	BURLEIGH ROAD	BU560	115	3	345	NO	
3/1/17	MEADOWBROOK	MB978	250	3	750	NO	
3/1/17	MEADOWBROOK	MB980	225	3	675	NO	
3/1/17	MEADOWBROOK	MB981	480	3	1440	NO	
3/1/17	MEADOWBROOK	MB982	175	3	525	NO	
3/2/17	MEADOWBROOK	MB954	225	3	675	NO	
3/2/17	MEADOWBROOK	MB955	300	2	600	NO	
3/2/17	MEADOWBROOK	MB956	350	2	700	NO	
3/2/17	MEADOWBROOK	MB976	225	2	450	NO	
3/2/17	MEADOWBROOK	MB977	225	2	450	NO	
3/2/17	MEADOWBROOK	MB985	240	2	480	NO	
3/2/17	MEADOWBROOK	MB995	350	2	700	NO	
3/8/17	ARCTIC BROOK	AB018	275	11	3025	NO	
3/8/17	ARCTIC BROOK	AB400	550	5	2750	NO	
3/8/17	ARCTIC BROOK	AB401	35	7	245	NO	
3/20/17	ARCTIC BROOK	AB604	425	2	850	NO	
3/20/17	ARCTIC BROOK	AB605	475	9	4275	NO	
3/28/17	ARCTIC BROOK	AB604	425	20	8500	YES	PRE-CONSTRUCTION FLUSHING
3/28/17	DAVIS BROOK	DB003	300	2	600	NO	
3/28/17	DAVIS BROOK	DB004	150	10	1500	NO	
3/29/17	ARCTIC BROOK	AB601	300	10	3000	NO	
3/29/17	ARCTIC BROOK	AB602	350	10	3500	NO	
3/29/17	ARCTIC BROOK	AB603	75	6	450	NO	
3/29/17	DAVIS BROOK	DB003	350	7	2450	YES	HEAVY DEBRIS IN LINE LOOKING FOR PROBLEM
3/30/17	ARCTIC BROOK	AB020	400	5	2000	NO	
3/30/17	ARCTIC BROOK	AB021	350	5	1750	NO	
3/30/17	ARCTIC BROOK	AB600	150	5	750	NO	
3/30/17	DAVIS BROOK	DB003	350	4	1400	YES	HEAVY DEBRIS IN LINE LOOKING FOR PROBLEM
3/31/17	BARKERSVILLE	BV030	350	10	3500	NO	
4/3/17	BARKERSVILLE	BV760	175	8	1400	NO	

APPENDIX E: CLEANING LOG

City of Bangor, Maine
Calendar Year 2017

Date of Cleaning	Subsection	Pipe Segment ID	Length of Pipe Segment	# Passes	Approx. Length Cleaned (FT)	Repeat Cleaning	Justification for Repeat Cleaning
4/4/17	HANCOCK	HK504	125	2	250	NO	
4/4/17	HANCOCK	HK505	185	2	370	NO	
4/4/17	HANCOCK	HK506	125	2	250	NO	
4/4/17	HANCOCK	HK507	250	2	500	NO	
4/4/17	HANCOCK	HK508	30	2	60	NO	
4/4/17	HANCOCK	HK525	100	2	200	NO	
4/4/17	HANCOCK	HK531	125	2	250	NO	
4/4/17	HANCOCK	HK626	275	2	550	NO	
4/4/17	HANCOCK	HK651	250	2	500	NO	
4/4/17	HANCOCK	HK652	225	2	450	NO	
4/4/17	HANCOCK	HK704	125	3	375	NO	
4/4/17	HANCOCK	HK705	125	2	250	NO	
4/5/17	ARCTIC BROOK	AB552	75	3	225	YES	TROUBLE SPOT
4/5/17	ARCTIC BROOK	AB562	75	3	225	YES	TROUBLE SPOT
4/5/17	AIRPORT	AP415A	175	3	525	YES	TROUBLE SPOT
4/5/17	HANCOCK	HK032	185	2	370	NO	
4/5/17	HANCOCK	HK033	115	2	230	NO	
4/5/17	HANCOCK	HK041	325	2	650	NO	
4/5/17	HANCOCK	HK280	200	2	400	NO	
4/7/17	AIRPORT	AP328	300	2	600	NO	
4/7/17	AIRPORT	AP329	250	2	500	NO	
4/7/17	AIRPORT	AP330	250	2	500	NO	
4/7/17	AIRPORT	AP331	250	2	500	NO	
4/7/17	AIRPORT	AP332	300	2	600	NO	
4/7/17	CARR BROOK	CB130	220	2	440	YES	TROUBLE SPOT
4/10/17	AIRPORT	AP325	240	2	480	NO	
4/10/17	AIRPORT	AP326	150	2	300	NO	
4/10/17	AIRPORT	AP327	70	2	140	NO	
4/10/17	AIRPORT	AP343	200	2	400	NO	
4/10/17	AIRPORT	AP344	200	2	400	NO	
4/10/17	AIRPORT	AP345	300	2	600	NO	
4/10/17	AIRPORT	AP346	300	2	600	NO	
4/10/17	AIRPORT	AP350	60	2	120	NO	
4/10/17	AIRPORT	AP351	165	2	330	NO	
4/10/17	AIRPORT	AP360	340	2	680	NO	
4/14/17	AIRPORT	AP340	140	2	280	NO	
4/14/17	AIRPORT	AP341	225	2	450	NO	
4/14/17	AIRPORT	AP342	280	2	560	NO	
4/18/17	PENJAJAWOC	PJ032	325	2	650	NO	
4/18/17	PENJAJAWOC	PJ033	240	2	480	NO	
4/18/17	PENJAJAWOC	PJ034	40	2	80	NO	
4/18/17	PENJAJAWOC	PJ035	50	2	100	NO	
4/18/17	PENJAJAWOC	PJ036	125	2	250	NO	
4/18/17	PENJAJAWOC	PJ700	250	2	500	NO	
4/18/17	PENJAJAWOC	PJ701	350	2	700	NO	
4/18/17	PENJAJAWOC	PJ703	340	2	680	NO	

APPENDIX E: CLEANING LOG

City of Bangor, Maine
Calendar Year 2017

Date of Cleaning	Subsection	Pipe Segment ID	Length of Pipe Segment	# Passes	Approx. Length Cleaned (FT)	Repeat Cleaning	Justification for Repeat Cleaning
4/18/17	PENJAJAWOC	PJ704	140	2	280	NO	
4/19/17	PENJAJAWOC	PJ027	90	2	180	NO	
4/19/17	PENJAJAWOC	PJ028	200	2	400	NO	
4/19/17	PENJAJAWOC	PJ036	100	2	200	YES	HEAVY GREASE
4/19/17	PENJAJAWOC	PJ400	350	2	700	NO	
4/19/17	PENJAJAWOC	PJ501	150	2	300	NO	
4/19/17	PENJAJAWOC	PJ502	130	2	260	NO	
4/19/17	PENJAJAWOC	PJ520	175	4	700	NO	
4/20/17	ARCTIC BROOK	AB490	330	1	330	NO	
4/20/17	CARR BROOK	CB126	350	2	700	YES	TROUBLE SPOT
4/20/17	CARR BROOK	CB134	350	1	350	YES	TROUBLE SPOT
4/20/17	MEADOWBROOK	MB996	375	2	750	YES	TROUBLE SPOT
4/21/17	HILDRETH PERRY	HP466	325	1	325	NO	
4/21/17	HILDRETH PERRY	HP485	400	1	400	NO	
4/21/17	HILDRETH PERRY	HP486	265	1	265	NO	
4/21/17	MEADOWBROOK	MB950	350	8	2800	NO	
4/27/17	HILDRETH PERRY	HP560	350	6	2100	NO	
5/3/17	ARCTIC BROOK	AB350	200	4	800	NO	
5/3/17	HILDRETH PERRY	HP562	350	5	1750	NO	
5/3/17	HILDRETH PERRY	HP563	145	5	725	NO	
5/4/17	AIRPORT	AP415A	165	2	330	YES	TROUBLE SPOT
5/4/17	DOW	DW614	200	2	400	YES	TROUBLE SPOT
5/8/17	HILDRETH PERRY	HP558	375	3	1125	NO	
5/8/17	HILDRETH PERRY	HP560	450	5	2250	YES	LOOKING FOR ILLICIT DISCHARGE
5/8/17	OLD CAPEHART	OC460	150	2	300	NO	
5/8/17	OLD CAPEHART	OC461	150	2	300	NO	
5/8/17	OLD CAPEHART	OC462	250	2	500	NO	
5/8/17	OLD CAPEHART	OC463	225	2	450	NO	
5/8/17	STRICKLAND	SL011	525	3	1575	NO	
5/17/17	AIRPORT	AP330	250	2	500	YES	ROOT PROBLEM
5/31/17	HANCOCK	HK005	75	2	150	NO	
5/31/17	HANCOCK	HK006	150	2	300	NO	
5/31/17	HANCOCK	HK020	100	2	200	NO	
5/31/17	HANCOCK	HK022	150	2	300	NO	
5/31/17	HANCOCK	HK100	25	3	75	NO	
5/31/17	HANCOCK	HK101	300	3	900	NO	
5/31/17	HANCOCK	HK102	325	2	650	NO	
5/31/17	HANCOCK	HK103	115	2	230	NO	
6/7/17	MEADOWBROOK	MB811	400	3	1200	NO	
6/7/17	MEADOWBROOK	MB812	350	2	700	NO	
6/7/17	MEADOWBROOK	MB813	225	2	450	NO	
6/15/17	ARCTIC BROOK	AB552	75	1	75	YES	TROUBLE SPOT
6/15/17	ARCTIC BROOK	AB562	125	2	250	YES	TROUBLE SPOT
6/15/17	AIRPORT	AP415A	150	2	300	YES	TROUBLE SPOT
6/15/17	AIRPORT	AP417	100	1	100	YES	TROUBLE SPOT
6/15/17	AIRPORT	AP418	300	1	300	YES	TROUBLE SPOT

APPENDIX E: CLEANING LOG

City of Bangor, Maine
Calendar Year 2017

Date of Cleaning	Subsection	Pipe Segment ID	Length of Pipe Segment	# Passes	Approx. Length Cleaned (FT)	Repeat Cleaning	Justification for Repeat Cleaning
6/15/17	CARR BROOK	CB126	375	1	375	YES	TROUBLE SPOT
6/15/17	DOW	DW265	110	2	220	YES	TROUBLE SPOT
6/15/17	DOW	DW614	200	2	400	YES	TROUBLE SPOT
6/15/17	HANCOCK	HK011	300	2	600	NO	
6/15/17	HANCOCK	HK040	275	2	550	NO	
6/15/17	WOODLAWN	WL601	350	1	350	NO	
6/16/17	HANCOCK	HK503	225	2	450	NO	
6/16/17	HANCOCK	HK600	250	2	500	NO	
6/16/17	HANCOCK	HK601	300	2	600	NO	
6/16/17	HANCOCK	HK602	50	4	200	NO	
6/26/17	DAVIS BROOK	DB540	75	3	225	NO	
6/28/17	CARR BROOK	CB126	350	1	350	YES	TROUBLE SPOT
6/28/17	CARR BROOK	CB134	350	1	350	YES	TROUBLE SPOT
6/28/17	CARR BROOK	CB406	350	2	700	YES	TROUBLE SPOT
6/29/17	OLD CAPEHART	OC420	100	1	100	YES	TROUBLE SPOT
6/29/17	OLD CAPEHART	OC421	375	1	375	YES	TROUBLE SPOT
6/29/17	OLD CAPEHART	OC453	225	1	225	YES	TROUBLE SPOT
6/29/17	OLD CAPEHART	OC455	200	1	200	NO	
8/8/17	DOW	DW265	110	2	220	YES	TROUBLE SPOT
9/1/17	ARCTIC BROOK	AB552	75	1	75	YES	TROUBLE SPOT
9/1/17	ARCTIC BROOK	AB562	125	2	250	YES	TROUBLE SPOT
9/1/17	DAVIS BROOK	DB564	140	2	280	YES	TROUBLE SPOT
9/1/17	DAVIS BROOK	DB565	150	1	150	YES	TROUBLE SPOT
9/1/17	DAVIS BROOK	DB566	175	1	175	YES	TROUBLE SPOT
9/1/17	DOW	DW265	110	2	220	YES	TROUBLE SPOT
9/1/17	DOW	DW614	200	2	400	YES	TROUBLE SPOT
9/1/17	OLD CAPEHART	OC403	300	1	300	YES	TROUBLE SPOT
9/1/17	OLD CAPEHART	OC420	100	1	100	YES	TROUBLE SPOT
9/1/17	OLD CAPEHART	OC421	350	1	350	YES	TROUBLE SPOT
9/1/17	OLD CAPEHART	OC422	375	1	375	YES	TROUBLE SPOT
9/6/17	AIRPORT	AP415A	165	2	330	YES	TROUBLE SPOT
9/6/17	AIRPORT	AP417	100	2	200	YES	TROUBLE SPOT
9/6/17	BURLEIGH ROAD	BU532	150	1	150	YES	TROUBLE SPOT
9/6/17	BURLEIGH ROAD	BU535	275	1	275	YES	TROUBLE SPOT
9/6/17	BARKERSVILLE	BV604	325	3	975	NO	
9/6/17	BARKERSVILLE	BV605	300	2	600	NO	
9/6/17	BARKERSVILLE	BV660	200	2	400	NO	
9/7/17	BARKERSVILLE	BV601	300	3	900	NO	
9/7/17	BARKERSVILLE	BV610	125	3	375	NO	
9/7/17	BARKERSVILLE	BV615	550	8	4400	NO	
9/7/17	BARKERSVILLE	BV616	250	3	750	NO	
9/25/17	PENJAJAWOC	PJ550	225	3	675	NO	
9/25/17	PENJAJAWOC	PJ551	55	3	165	NO	
10/16/17	BARKERSVILLE	BV121	30	2	60	NO	
10/16/17	BARKERSVILLE	BV122	100	3	300	NO	
11/2/17	MEADOWBROOK	MB982	175	2	350	YES	TROUBLE SPOT

APPENDIX E: CLEANING LOG

City of Bangor, Maine
Calendar Year 2017

Date of Cleaning	Subsection	Pipe Segment ID	Length of Pipe Segment	# Passes	Approx. Length Cleaned (FT)	Repeat Cleaning	Justification for Repeat Cleaning
11/6/17	ARCTIC BROOK	AB620	425	6	2550	NO	
11/6/17	ARCTIC BROOK	AB623	400	3	1200	NO	
11/6/17	ARCTIC BROOK	AB624	210	3	630	NO	
11/30/17	BARKERSVILLE	BV751	500	4	2000	NO	
11/30/17	BARKERSVILLE	BV815	425	2	850	NO	
11/30/17	BARKERSVILLE	BV835	205	2	410	NO	
12/1/17	BARKERSVILLE	BV031	15	1	15	NO	
12/1/17	BARKERSVILLE	BV032	275	1	275	NO	
12/1/17	BARKERSVILLE	BV033	225	1	225	NO	
12/4/17	BARKERSVILLE	BV586	275	5	1375	NO	
12/4/17	BARKERSVILLE	BV617	350	3	1050	NO	
12/5/17	BARKERSVILLE	BV587	260	3	780	NO	
12/5/17	BARKERSVILLE	BV588	175	8	1400	NO	
12/5/17	BARKERSVILLE	BV602	400	3	1200	NO	
12/5/17	BARKERSVILLE	BV618	275	3	825	NO	
12/5/17	BARKERSVILLE	BV619	315	3	945	NO	
12/5/17	BARKERSVILLE	BV626	325	3	975	NO	
12/5/17	BARKERSVILLE	BV630	100	3	300	NO	
12/5/17	BARKERSVILLE	BV635	175	3	525	NO	
12/5/17	BARKERSVILLE	BV640	50	3	150	NO	
12/6/17	BARKERSVILLE	BV541	300	3	900	NO	
12/6/17	BARKERSVILLE	BV576	600	3	1800	NO	
12/6/17	BARKERSVILLE	BV576A	50	3	150	NO	
12/6/17	BARKERSVILLE	BV578	600	3	1800	NO	
12/7/17	BARKERSVILLE	BV620	125	3	375	NO	
12/7/17	BARKERSVILLE	BV627	495	3	1485	NO	
12/7/17	BARKERSVILLE	BV650	200	3	600	NO	
12/7/17	BARKERSVILLE	BV655	140	3	420	NO	

TOTAL FEET
TOTAL MILES

75,155
14.23

207,685
39.33

Appendix F. SSO Event Log

APPENDIX F: SSO EVENT LOG

City of Bangor, Maine
Calendar Year 2017

Event No.	Date/Time Reported or Discovered	Date/Time Stopped	Location (Nearest Address)	Final Disposition (Ground, Street, MS4, Surface Water)	Source of Notification	Suspected Cause of Event	Due to blockage or hydraulic limitation within publicly owned Collection System	Measures Taken to Stop Event	Estimated Release Volume (gal)/ Methodology	Date of Most Recent Prior SSO Event at Location
17-01	6/27/2017	6/27/2017	138 Mt Hope Ave	back into sewer system	property owner	Contractor flushing lines in vicinity	neither	reduced pressure on flushing equipment	returned to system	none known
17-02	7/5/2017	unknown	40 Wyoming Ave	ground, MS4 ditch	field crew	Sewer main surcharged due to blockage caused by misuse	blockage	event had occurred and stopped before discovery	unknown	none known
17-03	8/34/17	8/23/2017	849 Stillwater Ave	back into sewer system	property owner	Sewer main surcharged due to blockage of excessive grease	blockage	event had occurred and stopped before discovery	returned to system	none known
17-04	11/9/2017	11/10/2017	302 Buck St	back into sewer system	property owner	Sewer main replaced and new hookup not completed	neither	reconnected pipe to new main	returned to system	none known

NOTES:

17-01 Backup occurred during flushing. Homeowner did not have backflow preventer. City recommended that homeowner install one.

17-02 Blockage caused by misuse of sewer. Gloves and rags observed in discharge from sewer main that served one business lateral. Business was educated on proper use of sewer.

17-03 Area was cleaned and discharge was sucked up by sewer crew and returned to system. Restaurants in vicinity of blockage were subsequently visited by Code Enforcement for follow-up education.

**Appendix G. Location Map of Sanitary Sewer
Overflows**

WASTEWATER COLLECTION SYSTEM AND OVERFLOW LOCATIONS

Jan. 1, 2017 - Dec. 31, 2017

Legend

- ▲ SSO Location
- ▲ Licensed CSO Location
- Sewer Pipes
- ▭ Sewer Subsections

CSO INDEX

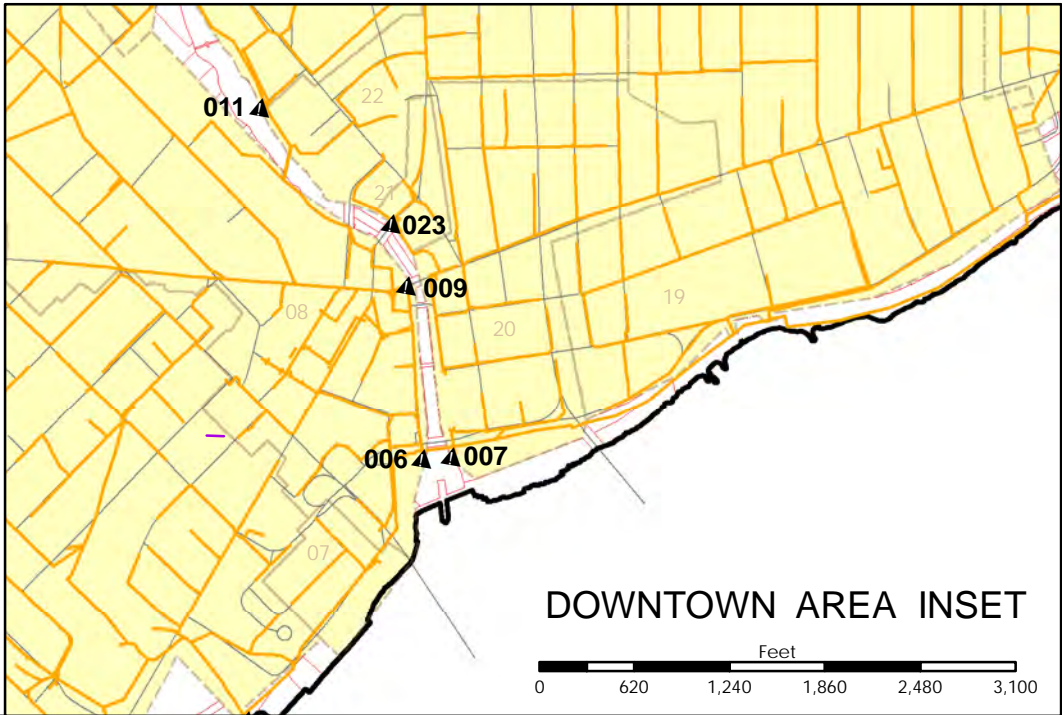
- | | | |
|---------------------|---------------------|--------------------|
| 002 Barkersville | 007 Kenduskeag East | 016 Cemetery |
| 003 Davis Brook | 009 Hammond Street | 020 Carr Brook |
| 006 Kenduskeag West | 011 Meadowbrook | 023 Central Street |

SUBSECTION INDEX

- | | |
|---------------------|--------------------|
| 01 Hildreth - Perry | 16 Penjajawoc |
| 02 Dow | 17 Woodlawn |
| 03 Hampden | 18 Carr Brook |
| 04 Barkersville | 19 Hancock |
| 05 Dutton | 20 Kenduskeag East |
| 06 Davis Brook | 21 Central |
| 07 May St. | 22 Franklin |
| 08 Kenduskeag West | 23 Meadowbrook |
| 09 Everett St | 24 Mill St |
| 10 Autumn St | 25 Arctic Brook |
| 11 14th St | 26 Blanchard St |
| 12 Cemetery | 27 Husson |
| 13 Westland | 28 Glenwood |
| 14 Airport | 29 Strickland |
| 15 Capehart | 30 Burleigh |



Jan 2018 by JPSB



DOWNTOWN AREA INSET

