



# OFFICE OF THE CITY MANAGER

## CITY OF BANGOR

Deborah A. Laurie  
City Manager

January 31, 2025

Kathryn Rosenberg  
Enforcement Officer  
Water Compliance Section 2  
US Environmental Protection Agency, Region 1  
5 Post Office Square – Suite 100  
Mail Code OES04-4  
Boston, MA 02109-3912

RE: Annual Report on Compliance for Calendar Year 2024

(Consent Decree, Civil Action No. 1:15-cv-00350-NT)

Dear Ms. Rosenberg,

Enclosed please find the City of Bangor's Annual Report on Compliance for the 2024 calendar year reporting period (the "Annual Report"), as required by Paragraphs 20 and 21 of the above-referenced Consent Decree. For your convenience, each Consent Decree annual reporting deliverable and its location in the Annual Report are fully cross-referenced in the attached table.

The City is currently in the process of finalizing the post construction monitoring data for the Davis Brook CSO Tank to further understand the impact this facility has on the operation of our overall collection system and wet weather flows to our treatment plant.

The Engineering Department is completing construction documents for a sewer/stormwater separation project on Cumberland Street that is scheduled for construction this summer. Please feel free to contact me if you have any questions concerning the attached Annual Report.

Sincerely,

Debbie Laurie  
City Manager

cc: Jaegun Lee, US EPA  
Brian Kavanah, Director, Bureau of Water Quality, MEDEP  
Kevin Osantowski, Preti Flaherty (via e-mail)

enc: Annual Report

Consent Decree		Deliverable	Annual Compliance Report Section
Page	Paragraph		
18	9.b.(1)	summary of CCTV inspections completed	Appendix A
18	9.b.(1)	manhole inspections	Appendix B
19	9.b.(3)	list of repairs, replacements or upgrades identified by CCTV work even if already completed	Appendix C
19-20	9.b.(4)	summary of routine cleaning performed	Appendix D
20	9.b.(5) [and 21.e]	MIP update: Plan Updates	III.D.1.a-d
20	9.b.(5) [and 21.e]	MIP update: Performance Metrics, Monitoring Measurement and Program Modifications	III.D.2.a-d
22	9.c.(6)(i)	list of public and private I/I sources identified	V
22	9.c.(6)(ii)	scope of investigation (flow monitoring, CCTV, dye testing, etc.)	V
22	9.c.(6)(iii)	Identify sewer sections linked to SSOs or CSOs (potential impact areas)	V
23	9.c.(6)(iv)	private sources of excessive I/I	V
23	9.c.(6)(v)	list of portions of collection system from which exfiltration is known or suspected to occur	V
23	9.c.(6)(v)	description of methodology used to determine the scope of the list	n/a
25	9.c.(6)(vi)	assessment if I/I measures will remedy exfiltration	n/a
23	9.c.(6)(vii)	propose remedial methods where I/I measures not expected to be sufficient	n/a
27	16	itemized list of weir adjustments or regulator changes including description, location, and date	III.A.2
32	21.a	chronological list of SSOs (in certain categories)	IV.A, Appendix E
32	21.a	information regarding each listed SSO	Appendix E
33	21.f	LTCP Activities	III.A, VI
33	21.b [and 9.a]	GIS map for each SSO	Appendix F
33	21.b	GIS map for each MS4 illicit connection reported in the annual MS4 report submitted pursuant to 2013-2021 MS4 permit	n/a
33	21.c [and 15]	CSO flow monitoring data (Annual CSO Progress Report to MEDEP)	III.A.4
33	21.d [and 9.c.(6)]	SSES Report	V
33	21.e [and 9.b.(5)]	MIP Report	III.D
33	21.f [and 9.c.(6), 11, 12, 18]	description of activities undertaken to achieve compliance by reducing SSO and CSO volumes	III.A.1-3
33	21.g	identification of all reports, plans, submissions required by CD that the City completed and submitted	II.A
33	21.h	description of activities expected for next reporting period to achieve compliance	VII
34	21.i	identification of any noncompliance	II.B

2024  
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, 2025



# 2024 Annual Report on Compliance

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## **Appendices**

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

# 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:   
Debbie Laurie  
City Manager

Date: 1/31/25

# 2024 Annual Report on Compliance

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# 2024 Annual Report on Compliance

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## 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, 2024, and ending on December 31, 2024.

## II. Status of Compliance

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

<u>Date Submitted</u>	<u>Deliverable</u>
January 30, 2024	Annual Report on Compliance for calendar year 2023
February 29, 2024	Copy of Annual CSO Report to DEP for calendar year 2023
July 1, 2024	GIS Deliverable (per Par. 9.a of the Consent Decree)
Various	ADS Flow Monitoring Reports (per Par. 22 of the CD)

### B. Identification of any Non-Compliance

The City of Bangor is unaware of any incidences of non-compliance with the requirements of the Consent Decree identified for the 2024 reporting period.

## III. Compliance Activities

### A. Measures Taken to Reduce CSO and SSO Volumes

#### 1. Capital Improvement Projects (CIP)

##### Davis Brook CSO Storage Tank and Post Construction Monitoring

The Davis Brook CSO Storage Tank (DBST) is the first CSO project identified in the City's Phase II Long Term Control Plan (LTCP). The Tank was put into operation on October 24, 2022 and has functioned according to the intended design. The Davis Brook Tank provides 3.8 million gallons (MG) of storage capacity. The Tank is constructed immediately to the west of the existing Davis Brook Storage Conduit which currently provides 1.2 MG of storage capacity. The Davis Brook Tank has had a positive impact on the City's collection system during wet weather.

The City has contracted with AECOM to provide post construction monitoring of the Tank's operation to assist the City in developing best management practices to reduce CSO's through the tank operation. Seven temporary flow meters were installed at locations throughout the collection system to supplement data collected by permanent system instrumentation, and to support the post construction monitoring effort for the Davis Brook CSO Storage system. Temporary flow meters were installed in July 2023 by ADS Environmental at locations deemed to be hydraulically important to measure contributing flows to the Davis Brook Storage Tank, Davis Brook Storage Conduit, and the Wastewater Treatment Plant. These meters were removed after the high-flows in the spring of 2024.

Following the installation of the meters, AECOM has been reviewing the data to assess its quality for model calibration. As an initial review of the metering data, the existing model was run, and the results were compared to the summer 2023 meter data. Rainfall and USGS river gauge data from July 1, 2023, to September 30, 2023, was used to run the model to assess model calibration for meters 7, 8, 9 and the Barkersville CSO. These meters were selected because they directly impact the Barkersville Regulator and the Davis Brook CSO storage tank.

Based on AECOM's review, the existing model tended to overpredict the flow during medium and large storm events. AECOM is in the process of finalizing the post-construction monitoring data.

##### SCADA Needs Assessment and Upgrades

The City is contracted with Wright Pierce for a SCADA needs assessment and implementation plan for upgrades for the wastewater treatment plant and the collection system. The needs assessment was completed on July 6, 2018. Based on the plan's

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## 2024 Annual Report on Compliance

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recommendations, the City has completed Phase I of the SCADA upgrade project, critical components have been replaced at the WWTP, and control upgrades at Kenduskeag Pump Station have been installed. Phase II of the SCADA upgrade is currently under construction and approximately 99 percent complete. This work includes upgrades to the Bangor WWTP SCADA system, instrumentation and control systems, and the associated electrical upgrades. The City contracted with Wilcox Electric Inc. in October of 2022 to complete the system improvements at the WWTP. Final completion of this SCADA upgrade work is scheduled for the summer of 2025. This project's total estimated budget of about \$1.85 million.

### Meadowbrook Sewer Separation Project

The City of Bangor is currently working on the design for sewer separation project within the Meadow Brook subsection to reduce the amount of inflow into the collection system to help reduce CSOs. The design is anticipated to separate catch basins along Cumberland Street, Essex Street, North French Street, and Pine Street. Plans and specifications are currently underway for this work with the project anticipated to go out to bid in spring of 2025 with construction expected to begin during summer of 2025.

### Barkersville Regulator Structure

AECOM completed an initial review of the Barkersville Regulator structure using a video obtained by ADS Environmental to assess the condition and the hydraulic efficiency of the existing regulator structure. The structure was found to be in acceptable physical condition and the next step was to assess the hydraulic efficiency of the existing regulator. One of the limiting factors of the regulator structure is that while there is space to increase the height of the existing weir in the structure, it may have a minimal effect on the CSO activation frequency and volume due to the slope of the influent pipe. AECOM is currently finalizing recommendations to improve the Barkersville regulator structure.

### Asset Management Program and Implementation

The City's Asset Management program made significant progress throughout 2024. This program aims to answer important questions about asset management decisions and helps determine the optimal timing for maintenance, replacement, upgrades, or retirement of various assets, infrastructure, and equipment. It also tracks associated costs and personnel resources. Working with our consultant, Timmons Group, we successfully configured and deployed the backend systems to our GIS/IT infrastructure and provided comprehensive training for administrators, managers, and end users. Public Works began actively using the system in summer 2024 for resource and project tracking. The departure of our GIS/Asset Administrator temporarily slowed expansion in the latter half of the year, a new GIS Administrator was hired in fall 2024 to continue the implementation. Current efforts are focused on the wastewater treatment plant, with plans to complete the database

## 2024 Annual Report on Compliance

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schema and asset mapping in the first half of 2025, followed by staff training and system deployment.

### Perry Road and K-Mart Pump Station

Haley Ward, Inc. provided engineering services to evaluate both the Perry Road Pump station located in the Hildreth – Perry sewer shed, and the K-Mart Pump Station located in the Penjajawoc sewer shed. The intent for the Perry Road pump station work is to evaluate current and future flows to this pump station and replace the structure with a more up to date facility that will provide redundancy during high-flow events. The study will provide the necessary sizing for pump station components as well as the most beneficial location for the new facility along Perry Road.

The engineering study for the K-mart pump station included an evaluation for the possibility of eliminating the pump station and carrying existing flows via a new gravity sewer. A cost analysis for total replacement of the pump station versus a new gravity line was determined and a recommendation provided for the most beneficial approach forward which was a new gravity sewer.

Final design plans and bidding documents will be developed for both locations during the spring and summer of 2025. The City anticipates that construction for both these pump station projects will be phased throughout 2026-2028.

### Airport Sewer Replacement

The Airport Sewer Replacement project included replacing approximately 900 linear feet of existing 8” clay cross country sewer main and 4 manholes prone to infiltration with new 8” PVC and 4 new reinforced concrete manholes. This work was in conjunction with a new parking lot being constructed above this line.

### Silver Road Separation

The City identified two previously unmapped catch basins and a field inlet connected to the Barkersville sanitary sewer subsection that collected approximately 6.4 acres of stormwater flow. To remedy this approximately 500 linear feet of 12” HDPE pipe and 5 new catch basins were installed along the existing shoulder of Silver Road to collect this existing stormwater flow.

### Randolph Drive Sewer Replacement Phase 3

The City of Bangor Engineering Department finalized plans to remove and replace approximately 2,365 linear feet of existing 8” sewer main and 12 manholes prone to both roots balls and infiltration, construction is currently underway and is anticipated to be completed in the summer of 2025.

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### Hildreth Street North Force Main Replacement

Eastwood Contractors have begun installing (2) parallel 8" diameter ductile iron force mains and a meter pit beginning at the existing North Hildreth Street Pump Station and running southerly along Hildreth Street approximately 625 linear feet to a new discharge / gravity connection manhole. This project will replace an aging 8" cast iron force main that has needed repair in the past and will offer redundancy for maintenance or repair where there was none previously.

### Small Projects Improvements

In addition to projects funded by the City of Bangor as major capital improvements and projects funded through the SRF program, the City of Bangor maintains an account especially designated for smaller sewer improvements that typically do not exceed \$100,000/location. These projects are completed by a Contractor that is under a multi-year agreement with the City to complete this work as it becomes available. These projects are usually a proactive effort and determined by the City's ongoing CCTV camera inspection work.

There are occasions however, when this work is also reactive when sewer emergencies do occur. The City has been maintaining this Small Project's Account for 10 years and has been successful in completing a significant amount of repair work to the collection system. The following table summarizes the work that has been completed during 2024. The work includes the installation of 2 new precast concrete manholes to replace existing brick or barrel block manholes, 26 new precast concrete manholes to improve access, 237.5 feet of 8" PVC sewer main, 91 feet of 10" PVC sewer main, 319.5 feet of 12" PVC sewer main, 91 feet of 18" PVC sewer main, and 62.5 feet of 24" PVC sewer main. The new PVC sewer pipe replaced existing brick and tile or cement / concrete sewer main that was no longer functioning properly. This work also included repairing an existing 8" force main. The total cost of work completed under the Small Projects Account for the year 2024 was approximately \$695,775.

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### Small Projects Account - Year 2024 Summary

Street Name (Nearest to Project)	Work Completed	Date Completed
Mt Hope	Replaced 12.5' of clay sewer with new 12" PVC to retrieve Sewer Department's Camera	2-2-24
Lincoln Street at Seventh Street	Installed a new 8' diameter manhole on top of 54" brick sewer. Installed a new (2) new 4' diameter manholes and replaced 71' of clay sewer with new 8" PVC on Lincoln Street and 36' of clay sewer with 12" PVC on Seventh Street to improve access to both streets	4-11-24
Cedar Street at Hammond Street	Installed a new 4' diameter manhole to add access on Cedar St	4-18-24
Cedar Street at West Broadway	Installed a new 4' diameter manhole to add access on Cedar St	4-18-24
Pond Street at Hayward	Installed a new 4' diameter manhole to add access to Hayward St	4-18-24
North Hildreth Street	Repaired 8" force main with 6' of 8" ductile iron pipe	4-27-24
Walter Street	Installed a new 4' diameter manhole and replaced 22' of clay sewer with 10" PVC	6-20-24
Webster Street at Harthorn Avenue	Installed (3) new 4' diameter manholes and replaced 14' of clay sewer with 12" PVC. Raised old lamp hole and installed sewer frame and cover to improve access on Webster St	6-26-24
511 Maine Avenue	Replaced 97' of clay sewer with 8" PVC	6-28-24
Savage Street at West Broadway	Installed a new 4' diameter manhole and replaced 8' of clay sewer with 10" PVC to add access to Savage St	7-2-24
Vernon Street	Installed a new 4' diameter manhole and replaced 55' of clay sewer with 8" PVC	7-9-24
Webster Street at Savage Street	Installed a new 4' diameter manhole and replaced 123' of clay sewer with 12" PVC	7-16-24
Wing Street at Vernon Street	Installed a new 4' diameter manhole and replaced 8' of clay sewer with 12" PVC to add access to Vernon St	7-17-24
Munroe Street	Installed a new 4' diameter manhole and replaced 39' of clay sewer with	7-23-24

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	18" PVC to add access to a Munroe cross country line	
Valley Avenue (Off Road)	Replaced 2 existing manholes with new 8' diameter manholes and replaced 62.5' 15" RCP with 24" PVC to increase capacity	8-19-24
Bangor Mall Boulevard	Repaired 16' of 10" truss pipe with 10" PVC	8-26-24
James Street at Union Street	Installed a new 4' diameter manhole and replaced 8' of clay sewer with 10" PVC to add access to James St	9-12-24
Buck Street at Seventh Street	Installed a new 4' diameter manhole and replaced 7' of cement sewer with 8" PVC and replaced 34' of clay sewer with 12" PVC to add access to Seventh St	9-18-24
Pine Street at Penobscot Street	Installed a new 4' diameter manhole and replaced 7.5' of clay sewer with 8" PVC to add access to Pine St	9-24-24
Seventh Street at Bowdoin Street	Installed a new 4' diameter manhole and replaced 8' of clay sewer with 12" PVC to add access to Bowdoin St	9-25-24
Fifth Street at Warren Street	Installed a new 6' diameter manhole on top of the brick sewer to improve access on Fifth St	9-30-24
James Street at Highland Avenue	Installed a new 4' diameter manhole and replaced 6' of clay sewer with 10" PVC to add access to James St	10-2-24
Sixth Street	Installed a new 4' diameter manhole and replaced 13' of cement sewer with 12" PVC to improve access on Sixth St	10-2-24
Ohio Street at Court Street	Installed a new 4' diameter manhole and replaced 8' of cement sewer with 10" PVC to add access on Ohio St	10-7-24
Cedar at Pond Street	Installed a new 4' diameter manhole and replaced 52' of brick sewer with 18" PVC to add access to Pond St	10-10-24
Third Street at Patten Street and Carroll Street	Installed (2) new 4' diameter manholes and replaced 71' of cement sewer with 12" PVC to add access to both Patten and Carroll Streets	10-17-24
Third Street at Sidney Street	Replaced 23' of cement sewer with 10" PVC	10-18-24

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The Bangor City Council is supportive of the City's efforts towards the reduction of CSO's. The Council continues to provide funding for wastewater and stormwater separation projects within the City's annual budget. In 2024, the Council approved a rate increase of 3.5% to residents and users of the city's collection system for the 2025 fiscal year.

### **2. Weir and Regulator Adjustments**

All regulators and weir level instrumentation were visibly inspected in the spring of 2024 and found to be functioning properly. No adjustments have been made this past year. Inspection of regulators and weirs are completed on an annual basis.

### **3. Other**

- Continued clearing cross-country sewer easement areas. Cleared cross-country easements have been maintained.
- Performed visual inspections of the cross-country sewer easements three times in 2024. This work is typically completed in the spring, summer, and fall.

### **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. This data was used to prepare the Annual CSO Progress Report for 2023, which was submitted to Maine DEP on February 29, 2024. 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 2024 to Maine DEP by March 1, 2025. A copy of the report will also be submitted to EPA.

## **B. Illicit Connections**

### **1. List of Illicit Connections**

No Illicit connections were found in either the City's sanitary or stormwater collection systems during 2024.

### **2. GIS Map of Each Illicit Connection**

No Illicit connections were found in either the City's sanitary or stormwater collection systems during 2024.

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## **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 713,870 linear feet, or 135.2 miles. The length of the remaining components of the sewer collection system, including interceptors, force mains, siphons, and leads, is approximately 75,218 linear feet, or approximately 14.3 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 3,436 manholes in the collection system, including the new ones added this year.

### **1. CCTV Assessments**

The City and/or its subcontractors completed 145,523 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 128,625 linear feet, or about 18% of the inspectable portion of the sewer collection system. Refer to [Appendix A](#) (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 437 publicly owned sewer collection system manholes in 2024, which is about 13% of the total number of public manholes in the system. Refer to [Appendix B](#) (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 C](#) (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 372,463 linear feet of pipe within the publicly owned sewer collection system in 2024, including repeat cleanings. The total length of pipe cleaned excluding repeat cleanings and additional passes is 142,398 linear feet, or about 20% of the inspectable portion (713,870 feet) of the sewer collection system. Refer to [Appendix D](#) (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

# 2024 Annual Report on Compliance

CCTV work, as sometimes it is beneficial to perform a CCTV investigation on a pipe without prior cleaning.

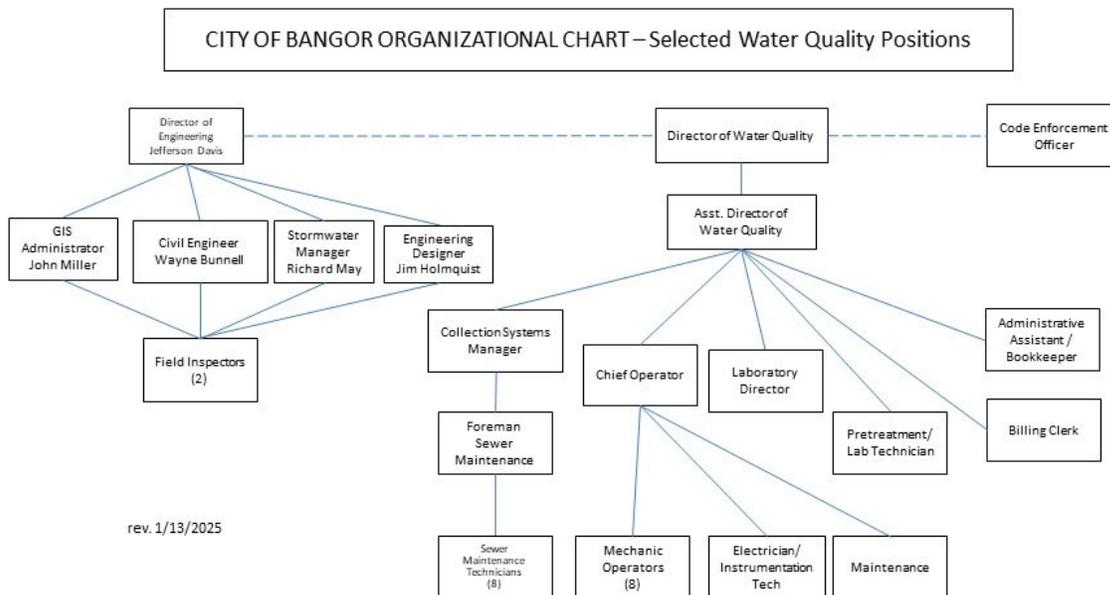
## D. Maintenance Improvement Plan (MIP)

The City revises and updates the MIP on a yearly basis. The following substantive changes were made in 2024.

### 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 has a goal to clean, inspect, and assess 10% of its sewer collection system per year. The lists of pipes that were inspected and cleaned during the reporting period are included in [Appendix A](#) (CCTV Inspection Log) and [Appendix D](#) (Cleaning Log), respectively. The list

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of manholes that were inspected during the reporting period is included as [Appendix B](#) (Manhole Inspection Log).

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

There were no changes to the ordinance. The City continues to review CCTV footage and grease trap maintenance logs prior to renewal of victualer licenses. If necessary, the City captures additional CCTV inspections to determine if extra grease trap maintenance is required.

**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 E](#) (SSO Event Log).

Total number of SSOs	10
Estimated total volume of SSOs (gallons)	101,635
Number of dry weather SSOs	0
Number of wet weather SSOs	3
Number of SSOs where weather was either unknown or irrelevant to type of incident	1
Number of SSOs caused primarily by pipe blockage (debris, grease)	3
Number of SSOs caused primarily by pipe failure	3

**b) *DWOs***

DWO events that occurred during the reporting period are summarize in the table below.

Total number of DWOs	11
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**c) *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 [Appendix A](#) (CCTV Inspection Log) and [Appendix D](#) (Cleaning Log), respectively.

**d) *Pump Station Work Orders***

There were 22 pump station work orders completed during the reporting period. Kenduskeag pump station is checked five 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.

**e) *Fats, Oils, and Grease (FOG)***

During the 2024 reporting period, the City Code Office permitted the installation or replacement of nine interior grease traps. These grease traps were permitted and

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inspected through the Bangor City Code Department. The Bangor City Code Department requires and reviews grease trap maintenance logs at time of business license renewal. The Code office works with businesses to make sure they keep up-to-date with grease trap logs.

### **IV. Sanitary Sewer Overflows (SSOs)**

#### **A. Chronological List of SSOs**

There were ten SSOs that occurred during the reporting period. Three of these SSOs were wet weather occurrences and three were due to blockages in the mains. Three SSOs occurred where weather had no impact to the SSOs and were a result of pipe failure and human error. One has an unknown cause but high flows are the suspected cause. Refer to [Appendix E](#) (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 E](#) (Location Map of Sanitary Sewer Overflows).

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### **V. Sanitary System Evaluation Survey (SSES) Update**

For the past three years, the City of Bangor has been focused on conducting evaluations of the collection system within the sewer subsections of Meadowbrook, Cemetery, Kenduskeag West, and Hildreth-Perry. These sewer subsections are those that were prioritized in the Phase 4 SSES Scope of Work. During the spring of 2022 and 2023 and 2024, the sewer crew completed 718 CCTV inspections. The breakdown of those inspections are as follows:

Meadowbrook: 340 inspections with about 90% of the Meadowbrook subsection complete

Cemetery: 149 inspections, with about 96% of the Cemetery subsection complete

Kenduskeag West: 127 inspections with about 75% of Kenduskeag West subsection complete

Hildreth Perry: 102 inspections with about 51% of Hildreth Perry subsection complete

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

The City has removed an estimated 620,828 GPD of infiltration and inflow from the system since 2015. This is a result of continued work on our collection system through projects outlined within the LTCP as well as ongoing annual maintenance and repair projects completed by the City.

Year	No. of Projects	I/I removed (GPD)
2016	1	5,600
2017	3	5,800
2018	1	4,200
2019	3	394,000
2020	4	85,300
2021	2	33,300
2022	3	53,820
2023	1*	19,508
2024	2*	19,300
TOTAL	20	620,828

*\* Projects included for 2023 and 2024 estimate of reduction of infiltration include the work associated with our small projects program as summarized earlier in this report.*

*\*\*The 2023 and 2024 estimates are based on the length of new sewer installed that replaced older sewer and assumes a reduction of infiltration of 6,000 GPD \* Inch Diameter \* miles of sewer.*

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### **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 (Small Projects Account) to prioritize and repair trouble spots and other defects in the collection system.
- 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 Cemetery, Hildreth-Perry, Kenduskeag West, and Meadowbrook sewer sheds as outlined in our Phase 4 SSES Scope of Work.
- 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, 2025.
- Review AECOM's Post-Construction Monitoring of the Davis Brook tank.
- Bring the WWTP SCADA project to final completion
- Complete design for stormwater separation project in Meadowbrook sewer shed.
- Complete evaluation of Barkersville Regulator Structure and determine what improvements, if any, can be completed to reduce CSO's at this location prior to design of Barkersville CSO Tank.
- Review final design plans and bidding documents for the upgrades to K-Mart and Perry Road Pump Stations.

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

# **Appendix A**

## **CCTV Inspection Log**

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
BU029	Burleigh	1/5/2024	348.7		No	
BV565A	Barkersville	1/9/2024	39.7		No	
BV565A	Barkersville	1/9/2024	41.7	Yes	No	Resurvey after cleaning
BV420	Barkersville	1/9/2024	256.2		No	
HS001	Husson	1/9/2024	220.1		No	
HS002	Husson	1/9/2024	201.3		No	
HS003	Husson	1/9/2024	259.6		No	
HS003	Husson	1/9/2024	0		Yes	
HS004	Husson	1/9/2024	46.4		No	
HS005	Husson	1/9/2024	47.7		No	
HS006	Husson	1/9/2024	183.3		No	
HS005A	Husson	1/9/2024	116.3		No	
HS006A	Husson	1/9/2024	151.1		No	
HS500	Husson	1/9/2024	305.7		No	
HS009	Husson	1/11/2024	317.2		No	
HS008	Husson	1/11/2024	305.6		No	
HS006B	Husson	1/11/2024	24.7		No	
HS007	Husson	1/11/2024	69.5		No	
BV752	Barkersville	1/12/2024	243.8		Yes	
CB702	Carr Brook	1/16/2024	43.9		No	
CB702	Carr Brook	1/16/2024	70.8		Yes	
CB702	Carr Brook	1/16/2024	91	Yes	No	Resurvey after cleaning
KE004	Kenduskeag East	1/17/2024	16		No	
BV605	Barkersville	1/19/2024	28.7		No	
BV660	Barkersville	1/19/2024	240.5		No	
BV606	Barkersville	1/19/2024	15.8		No	
BV605	Barkersville	1/19/2024	106.5		Yes	
BV310	Barkersville	1/19/2024	75.5		Yes	
DB565	Davis Brook	1/19/2024	3.7		No	
EP063	East Penobscot Interceptor	1/19/2024	226.3		No	
BU400	Burleigh	1/22/2024	52.5		No	
BU401	Burleigh	1/22/2024	46.5		No	
BU401	Burleigh	1/22/2024	237.8		Yes	
BU402	Burleigh	1/22/2024	400		No	
BU403	Burleigh	1/22/2024	356.3		No	
BU404	Burleigh	1/22/2024	344.2		No	
EP065	East Penobscot Interceptor	1/22/2024	359.3		No	
KE002	Kenduskeag East	1/23/2024	29.1		No	
EP007	East Penobscot Interceptor	1/23/2024	11.1		No	
EP008	East Penobscot Interceptor	1/23/2024	88.4		No	
EP009	East Penobscot Interceptor	1/23/2024	200		No	
EP010	East Penobscot Interceptor	1/23/2024	227.5		No	
EP011	East Penobscot Interceptor	1/23/2024	407.3		No	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine

Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
EP006	East Penobscot Interceptor	1/23/2024	5		No	
EP005	East Penobscot Interceptor	1/23/2024	215.3		No	
EP004	East Penobscot Interceptor	1/23/2024	113.3		No	
EP003	East Penobscot Interceptor	1/23/2024	150.3		No	
EP002	East Penobscot Interceptor	1/23/2024	262.5		No	
BV006	Barkersville	1/24/2024	152.4		No	
CB112B	Carr Brook	1/24/2024	49		No	
CB133	Carr Brook	1/24/2024	64.4		No	
BV007	Barkersville	1/24/2024	173.7		No	
EP070	East Penobscot Interceptor	1/24/2024	76.8		No	
BU011	Burleigh	1/24/2024	397.8		No	
CB133	Carr Brook	1/24/2024	644.2	Yes	No	Resurvey after cleaning
BU027	Burleigh	1/24/2024	54.7		No	
HK025	Hancock	1/24/2024	46.6		No	
CB021	Carr Brook	1/25/2024	230.4		No	
CB022	Carr Brook	1/25/2024	237.2		No	
CB134	Carr Brook	1/25/2024	119.1		No	
CB400	Carr Brook	1/25/2024	237.4		No	
CB401	Carr Brook	1/25/2024	238.3		No	
CB134	Carr Brook	1/25/2024	183.6		Yes	
CB403	Carr Brook	1/25/2024	353.4		No	
CB135	Carr Brook	1/25/2024	198.1		No	
CB402	Carr Brook	1/25/2024	342.4		No	
CB402	Carr Brook	1/25/2024	177.5		Yes	
CB162	Carr Brook	1/25/2024	41.5		No	
CB162	Carr Brook	1/26/2024	277	Yes	No	Resurvey after cleaning
CB407	Carr Brook	1/26/2024	155.8		No	
CB404	Carr Brook	1/30/2024	348.3		No	
WL521	Woodlawn	1/30/2024	271.7		No	
WL520	Woodlawn	1/30/2024	330.7		No	
CB405	Carr Brook	1/30/2024	299		No	
WL513	Woodlawn	1/30/2024	174.3		No	
CB406	Carr Brook	1/30/2024	92.1		No	
BV704	Barkersville	1/30/2024	329.1		No	
CB410	Carr Brook	1/30/2024	384.6		No	
CB163	Carr Brook	1/30/2024	267.5		No	
WL532	Woodlawn	1/30/2024	343.8		No	
WL531	Woodlawn	1/30/2024	368.4		No	
HK023	Hancock	1/30/2024	0		No	
HK022	Hancock	1/30/2024	3.9		No	
WL530	Woodlawn	1/30/2024	238.4		No	
WL024	Woodlawn	1/30/2024	299		No	
WL023	Woodlawn	1/30/2024	269.3		No	
AP401	Airport	1/31/2024	69.4		No	
AS003	Autumn Street	1/31/2024	39.2		No	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
KW102C	Kenduskeag West	1/31/2024	544.5		No	
DB520	Davis Brook	2/1/2024	83.7		No	
AP401	Airport	2/1/2024	173.4	Yes	No	Resurvey after cleaning
AP400	Airport	2/1/2024	61.9		No	
CB026	Carr Brook	2/2/2024	109.3		No	
CB025	Carr Brook	2/2/2024	111.5		No	
CB024	Carr Brook	2/2/2024	101		No	
CB028	Carr Brook	2/2/2024	403.5		No	
CB027	Carr Brook	2/2/2024	339.9		No	
CB029	Carr Brook	2/2/2024	140.8		No	
CB601	Carr Brook	2/2/2024	360.5		No	
CB602	Carr Brook	2/2/2024	290.2		No	
AP403	Airport	2/5/2024	9.8		No	
AP404	Airport	2/5/2024	0		No	
AP406	Airport	2/5/2024	203.8		No	
AP407	Airport	2/5/2024	0.1		No	
AP405	Airport	2/5/2024	303.2		No	
AB404A	Arctic Brook	2/8/2024	141.8		No	
AB404	Arctic Brook	2/8/2024	307.4		No	
AP450	Airport	2/13/2024	280.5		No	
AP444	Airport	2/13/2024	81.8		No	
AP445	Airport	2/13/2024	1.3		No	
AP445	Airport	2/13/2024	51.3		Yes	
AP409	Airport	2/13/2024	0.2		No	
AP408	Airport	2/13/2024	0		No	
AP441	Airport	2/13/2024	19.2		No	
AP442	Airport	2/13/2024	179.7		No	
AP451	Airport	2/13/2024	164.2		No	
AP461	Airport	2/13/2024	221.9		No	
AP410	Airport	2/13/2024	0.3		No	
AP409	Airport	2/13/2024	16.6		Yes	
FS404	Fourteenth Street	2/15/2024	122.8		No	
FS405	Fourteenth Street	2/15/2024	303.9		No	
FS406	Fourteenth Street	2/15/2024	143.5		No	
FS407	Fourteenth Street	2/15/2024	111.3		No	
FS403	Fourteenth Street	2/15/2024	156.3		No	
FS402	Fourteenth Street	2/15/2024	354.6		No	
FS407	Fourteenth Street	2/15/2024	262.8		Yes	
KW016	Kenduskeag West	2/15/2024	349		No	
DB380	Davis Brook	2/15/2024	25.3		No	
DB306	Davis Brook	2/22/2024	563		No	
DB306A	Davis Brook	2/22/2024	204.5		Yes	
FS400A	Fourteenth Street	2/27/2024	18.2		No	
FS401	Fourteenth Street	2/27/2024	54.8		No	
FS400	Fourteenth Street	2/27/2024	12.7		No	
WS106	Westland	2/27/2024	308.2		No	
WS107	Westland	2/27/2024	399.1		No	
WS105	Westland	2/27/2024	300.3		No	
WS104	Westland	2/27/2024	202.1		No	
FS008	Fourteenth Street	2/27/2024	2.1		No	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
WS103	Westland	2/27/2024	301.8		No	
WS104	Westland	2/27/2024	2.4		Yes	
WS102	Westland	2/27/2024	300.4		No	
WS101	Westland	2/27/2024	225.6		No	
WS101	Westland	2/27/2024	67		Yes	
WS009	Westland	2/27/2024	36.1		No	
WS008	Westland	2/27/2024	221.2		No	
FS008	Fourteenth Street	2/27/2024	127.5		Yes	
MB922	Meadowbrook	2/28/2024	85.8		No	
MB923	Meadowbrook	2/28/2024	293.1		No	
MB922	Meadowbrook	2/28/2024	159.8		Yes	
MB921	Meadowbrook	2/28/2024	332		No	
MB920	Meadowbrook	2/28/2024	163.4		No	
CB604	Carr Brook	2/28/2024	101.6		No	
DB509	Davis Brook	2/29/2024	166.7		No	
CB603	Carr Brook	2/29/2024	534		No	
CM252	Cemetery	2/29/2024	434.8		No	
OC402	Old Capehart	2/29/2024	150.8		No	
OC401	Old Capehart	2/29/2024	189.6		No	
OC400	Old Capehart	2/29/2024	215.6		No	
OC111	Old Capehart	2/29/2024	162		No	
OC110	Old Capehart	2/29/2024	234.5		No	
MB262	Meadowbrook	3/1/2024	226.1		No	
KW202	Kenduskeag West	3/1/2024	260.3		No	
KW208	Kenduskeag West	3/1/2024	26		No	
KW207	Kenduskeag West	3/1/2024	134.8		No	
KW205	Kenduskeag West	3/1/2024	213.8		No	
KW206	Kenduskeag West	3/1/2024	205.2		No	
KW220	Kenduskeag West	3/1/2024	2		No	
HP232	Hildreth Perry	3/5/2024	363		No	
AB457	Arctic Brook	3/5/2024	287.2		No	
AB457	Arctic Brook	3/5/2024	13.3		Yes	
AB450	Arctic Brook	3/5/2024	117.7		No	
HP802	Hildreth Perry	3/5/2024	172.8		No	
HP226A	Hildreth Perry	3/5/2024	222.6		No	
HP239	Hildreth Perry	3/5/2024	107.9		No	
HP238	Hildreth Perry	3/5/2024	83.6		No	
HP750	Hildreth Perry	3/6/2024	446.5		No	
HP700	Hildreth Perry	3/6/2024	402		No	
HP750	Hildreth Perry	3/6/2024	1.4		Yes	
HP225	Hildreth Perry	3/6/2024	325.8		No	
HP226	Hildreth Perry	3/6/2024	147.5		No	
HP851	Hildreth Perry	3/7/2024	250.6		No	
HP224S2	Hildreth Perry	3/7/2024	3.2		No	
HP801	Hildreth Perry	3/7/2024	111.1		No	
HP850	Hildreth Perry	3/7/2024	135.4		No	
HP495	Hildreth Perry	3/7/2024	250		No	
HP494	Hildreth Perry	3/7/2024	45.6		No	
HP803	Hildreth Perry	3/7/2024	101.8		No	
HP802	Hildreth Perry	3/7/2024	527.7		Yes	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
HP496	Hildreth Perry	3/7/2024	35.3		No	
HP806	Hildreth Perry	3/7/2024	2		No	
HP493	Hildreth Perry	3/7/2024	277.1		No	
HP951	Hildreth Perry	3/7/2024	217		No	
HP951	Hildreth Perry	3/7/2024	43.4		Yes	
HP950	Hildreth Perry	3/7/2024	138		No	
OC422	Old Capehart	3/11/2024	58.8		No	
OC422	Old Capehart	3/11/2024	67.6	Yes	No	Resurvey after cleaning
HP902	Hildreth Perry	3/12/2024	174.3		No	
HP901	Hildreth Perry	3/12/2024	12.8		No	
HP900	Hildreth Perry	3/12/2024	0.5		No	
HP800A	Hildreth Perry	3/12/2024	103.6		No	
Joker	Storm	3/13/2024	5		No	
HP456	Hildreth Perry	3/15/2024	122.8		No	
HP457	Hildreth Perry	3/15/2024	302.9		No	
HP458	Hildreth Perry	3/15/2024	234.9		No	
HP455	Hildreth Perry	3/15/2024	200.8		No	
HP454	Hildreth Perry	3/15/2024	198		No	
HP453	Hildreth Perry	3/15/2024	98.9		No	
HP452	Hildreth Perry	3/15/2024	70.5		No	
HP451	Hildreth Perry	3/15/2024	324.7		No	
HP450	Hildreth Perry	3/15/2024	152.5		No	
HP402	Hildreth Perry	3/15/2024	177.3		No	
HP435	Hildreth Perry	3/15/2024	9.6		No	
HP016	Hildreth Perry	3/18/2024	303.7		No	
HP015	Hildreth Perry	3/18/2024	273.4		No	
HP070	Hildreth Perry	3/18/2024	99.6		No	
HP071	Hildreth Perry	3/18/2024	350.6		No	
HP072	Hildreth Perry	3/18/2024	31.1		No	
HP072	Hildreth Perry	3/18/2024	352.3		Yes	
HP073	Hildreth Perry	3/18/2024	75.2		No	
CB280	Carr Brook	3/18/2024	316.9		No	
HP851	Hildreth Perry	3/18/2024	249.8	Yes	No	Resurvey after cleaning
HP850	Hildreth Perry	3/18/2024	206.2	Yes	No	Resurvey after cleaning
AB400	Arctic Brook	3/19/2024	555.3		No	
AB401	Arctic Brook	3/19/2024	86.4		No	
BS601	Blanchard Street	3/19/2024	197.2		No	
BS602	Blanchard Street	3/19/2024	296.2		No	
HP604	Hildreth Perry	3/19/2024	279.5		No	
HP603	Hildreth Perry	3/19/2024	300.9		No	
HP605	Hildreth Perry	3/19/2024	285.3		No	
HP607	Hildreth Perry	3/19/2024	279.3		No	
HP606	Hildreth Perry	3/19/2024	300.5		No	
HP608	Hildreth Perry	3/19/2024	246.3		No	
HP650	Hildreth Perry	3/20/2024	258.3		No	
HP651	Hildreth Perry	3/20/2024	251		No	
HP600	Hildreth Perry	3/20/2024	196.3		No	
HP458	Hildreth Perry	3/20/2024	297.3	Yes	No	Resurvey after cleaning
HP652	Hildreth Perry	3/20/2024	248.9		No	
HP653	Hildreth Perry	3/20/2024	241		No	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
HP459	Hildreth Perry	3/20/2024	39.3		No	
HP502	Hildreth Perry	3/20/2024	316.2		No	
HP510	Hildreth Perry	3/20/2024	97.6		No	
HP501	Hildreth Perry	3/20/2024	33.6		No	
HP510	Hildreth Perry	3/20/2024	127.7		Yes	
HP511	Hildreth Perry	3/20/2024	109.3		No	
HP512	Hildreth Perry	3/20/2024	110.7		No	
HP501	Hildreth Perry	3/20/2024	257.1	Yes	No	Resurvey after cleaning
HP223	Hildreth Perry	3/22/2024	363		No	
HP055	Hildreth Perry	3/22/2024	140.6		No	
HP401	Hildreth Perry	3/22/2024	348.6		No	
HP055A	Hildreth Perry	3/22/2024	92.3		No	
HP050	Hildreth Perry	3/22/2024	100.5		No	
HP400	Hildreth Perry	3/22/2024	273.4		No	
HP301	Hildreth Perry	3/22/2024	0.5		No	
HP051	Hildreth Perry	3/22/2024	241.3		No	
HP302	Hildreth Perry	3/22/2024	156.3		No	
HP023	Hildreth Perry	3/22/2024	283.2		No	
HP006	Hildreth Perry	3/22/2024	173.7		No	
HP071	Hildreth Perry	3/22/2024	350.5	Yes	No	Resurvey after cleaning
HP072	Hildreth Perry	3/22/2024	72.6	Yes	No	Resurvey after cleaning
HP466	Hildreth Perry	3/25/2024	318.5		No	
HP485	Hildreth Perry	3/25/2024	399.9		No	
HP486	Hildreth Perry	3/25/2024	259		No	
HP465	Hildreth Perry	3/25/2024	324.6		No	
BV350	Barkersville	3/25/2024	374.9		No	
HP904	Hildreth Perry	3/26/2024	151.5		No	
HP903	Hildreth Perry	3/26/2024	137.4		No	
HP031	Hildreth Perry	3/26/2024	424.4		No	
HP032	Hildreth Perry	3/26/2024	24.5		No	
HP030	Hildreth Perry	3/26/2024	318.6		No	
HP029	Hildreth Perry	3/26/2024	314.6		No	
BV475	Barkersville	3/26/2024	340.6		No	
HP904	Hildreth Perry	3/26/2024	151.5	Yes	No	Resurvey after cleaning
HP903	Hildreth Perry	3/26/2024	137.6	Yes	No	Remove
HP557	Hildreth Perry	3/27/2024	2.7		No	
HP017	Hildreth Perry	3/27/2024	226.7		No	
HP018	Hildreth Perry	3/27/2024	3.7		No	
HP014	Hildreth Perry	3/27/2024	344.6		No	
DB915	Davis Brook	4/2/2024	398.1		No	
DB901	Davis Brook	4/2/2024	400.1		No	
DB350	Davis Brook	4/2/2024	182.9		No	
DB900	Davis Brook	4/2/2024	0.3		No	
MB858	Meadowbrook	4/3/2024	56.9		No	
MB857	Meadowbrook	4/3/2024	249		No	
MB856	Meadowbrook	4/3/2024	122.4		No	
MB855	Meadowbrook	4/3/2024	230.2		No	
MB880	Meadowbrook	4/3/2024	256.9		No	
MB854	Meadowbrook	4/3/2024	412.2		No	
MB853	Meadowbrook	4/3/2024	257		No	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine

Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
MB870	Meadowbrook	4/3/2024	141.1		No	
MB852	Meadowbrook	4/3/2024	249.2		No	
MB835	Meadowbrook	4/3/2024	278.2		No	
MB836	Meadowbrook	4/3/2024	120.4		No	
MB840	Meadowbrook	4/3/2024	263.8		No	
MB866	Meadowbrook	4/3/2024	328.7		No	
MB865	Meadowbrook	4/3/2024	341.9		No	
DB901	Davis Brook	4/6/2024	400		No	Remove
AP332	Airport	4/6/2024	301.1		No	
KW101	Kenduskeag West	4/8/2024	303.2		No	
DB501	Davis Brook	4/8/2024	96.6		No	
DB500	Davis Brook	4/8/2024	182.9		No	
HP418	Hildreth Perry	4/8/2024	0		No	
HP417	Hildreth Perry	4/8/2024	220.5		No	
HP416	Hildreth Perry	4/9/2024	308.1		No	
HP415	Hildreth Perry	4/9/2024	309.1		No	
HP411	Hildreth Perry	4/9/2024	66		No	
HP410	Hildreth Perry	4/9/2024	3.5		No	
HP460	Hildreth Perry	4/9/2024	128.5		No	
HP407	Hildreth Perry	4/9/2024	30.2		No	
HP406	Hildreth Perry	4/9/2024	4.7		No	
HP491	Hildreth Perry	4/9/2024	305.9		No	
HP490	Hildreth Perry	4/9/2024	169.7		No	
HP473	Hildreth Perry	4/10/2024	196.7		No	
HP472	Hildreth Perry	4/10/2024	0.5		No	
HP470	Hildreth Perry	4/10/2024	338.6		No	
MB851	Meadowbrook	4/10/2024	422.2		No	
MB850	Meadowbrook	4/10/2024	306.4		No	
MB864	Meadowbrook	4/10/2024	101.9		No	
MB863	Meadowbrook	4/10/2024	225		No	
MB861	Meadowbrook	4/11/2024	196.8		No	
MB862	Meadowbrook	4/11/2024	217.4		No	
MB832	Meadowbrook	4/11/2024	237.3		No	
MB831	Meadowbrook	4/11/2024	250.9		No	
MB830	Meadowbrook	4/11/2024	319.9		No	
MB808	Meadowbrook	4/11/2024	0		No	
MB060	Meadowbrook	4/11/2024	144.5		No	
OC504	Old Capehart	4/12/2024	252.5		No	
OC511	Old Capehart	4/12/2024	143.1		No	
OC510	Old Capehart	4/12/2024	195.5		No	
KW001	Kenduskeag West	4/16/2024	56.9		No	
KW002	Kenduskeag West	4/16/2024	49.9		No	
BV475	Barkersville	4/16/2024	316.6	Yes	No	Post Rehab
BV475A	Barkersville	4/16/2024	21.3		No	
KW013	Kenduskeag West	4/16/2024	263.6		No	
KW011	Kenduskeag West	4/16/2024	194.4		No	
KW010	Kenduskeag West	4/16/2024	86.7		No	
KW202	Kenduskeag West	4/17/2024	61.5		Yes	
KW060	Kenduskeag West	4/17/2024	32.1		No	
KW076	Kenduskeag West	4/17/2024	16.8		No	

# APPENDIX A: CCTV INSPECTION LOG

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
KW091	Kenduskeag West	4/17/2024	11.5		No	
KW106	Kenduskeag West	4/17/2024	15		No	
KW170	Kenduskeag West	4/17/2024	188		No	
KW180	Kenduskeag West	4/17/2024	4		No	
KW180A	Kenduskeag West	4/17/2024	47.3		No	
DB380A	Davis Brook	4/18/2024	284		No	
DB306B	Davis Brook	4/18/2024	107.4		No	
DB101	Davis Brook	4/18/2024	35.6		No	
BU400	Burleigh	4/18/2024	347.5	Yes	No	Resurvey after cleaning
BU400	Burleigh	4/18/2024	71.1	Yes	Yes	Resurvey after cleaning
DB100	Davis Brook	4/22/2024	7.3		No	
DB306A	Davis Brook	4/23/2024	374.7	Yes	Yes	Post Rehab
AB006	Arctic Brook	4/24/2024	0.7		No	
DB306C	Davis Brook	4/25/2024	150		No	
DB306C	Davis Brook	4/25/2024	594.1		Yes	
DB306	Davis Brook	4/26/2024	70.9	Yes	No	Post Rehab
DB306	Davis Brook	4/26/2024	336.4	Yes	Yes	Post Rehab
BV022A	Barkersville	4/29/2024	413.5		No	
BV021	Barkersville	4/29/2024	62.6		No	
MB010	Meadowbrook	4/29/2024	269.7		No	
MB025	Meadowbrook	4/29/2024	232.9		No	
MB034	Meadowbrook	4/29/2024	233.8		No	
MB406	Meadowbrook	4/29/2024	176.1		No	
MB407	Meadowbrook	4/29/2024	162.1		No	
MB478	Meadowbrook	4/29/2024	212.6		No	
MB480	Meadowbrook	4/30/2024	36.1		No	
MB481	Meadowbrook	4/30/2024	67.9		No	
MB481	Meadowbrook	4/30/2024	132.7		Yes	
MB560	Meadowbrook	4/30/2024	100.1		No	
MB704	Meadowbrook	4/30/2024	242.9		No	
MB707	Meadowbrook	5/1/2024	41.8		No	
MB755A	Meadowbrook	5/1/2024	0.1		No	
MB451	Meadowbrook	5/1/2024	5.6		No	
MB777	Meadowbrook	5/1/2024	0.01		No	
HP090	Hildreth Perry	5/2/2024	452.8		No	
BV218	Barkersville	5/2/2024	263		No	
MB043	Meadowbrook	5/7/2024	317.1		No	
MB042	Meadowbrook	5/7/2024	280.5		No	
MB800	Meadowbrook	5/7/2024	139.1		No	
DB510	Davis Brook	5/7/2024	246.1		No	
MB530	Meadowbrook	5/7/2024	29		No	
MB510	Meadowbrook	5/7/2024	1		No	
BV030	Barkersville	5/8/2024	364.4		No	Resurvey after cleaning
BV029	Barkersville	5/8/2024	164		No	
BV030	Barkersville	5/8/2024	178.3		Yes	
MB029	Meadowbrook	5/8/2024	38.3		No	
MB700	Meadowbrook	5/8/2024	12.1		No	
KW251	Kenduskeag West	5/9/2024	287.9		No	
KW250	Kenduskeag West	5/9/2024	165.2		No	
KW171	Kenduskeag West	5/9/2024	78.1		No	

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
KW172	Kenduskeag West	5/9/2024	25.9		No	
BV760	Barkersville	5/10/2024	2.1		No	
BV030	Barkersville	5/10/2024	338	Yes	No	Resurvey after cleaning
BV030	Barkersville	5/10/2024	274.6	Yes	Yes	
AP023	Airport	5/10/2024	299.7		No	
AP023	Airport	5/14/2024	18.8	Yes	No	Resurvey after cleaning
AP024	Airport	5/14/2024	270.6		No	
AP022	Airport	5/14/2024	299.2		No	
AP021	Airport	5/14/2024	242.3		No	
AP024	Airport	5/14/2024	23.6		Yes	
AP025	Airport	5/14/2024	175.3		No	
BU404	Burleigh	5/14/2024	402	Yes	No	Locating Manhole
BU403	Burleigh	5/14/2024	358.2	Yes	No	Remove
BU402	Burleigh	5/14/2024	401.7	Yes	No	Remove
BU401	Burleigh	5/14/2024	285.6	Yes	No	Resurvey after cleaning
KW500	Kenduskeag West	5/15/2024	67		No	
KW601	Kenduskeag West	5/15/2024	15.6		No	
KW602	Kenduskeag West	5/15/2024	70.8		No	
KW603	Kenduskeag West	5/15/2024	62.3		No	
KW604	Kenduskeag West	5/15/2024	23.5		No	
KW605A	Kenduskeag West	5/15/2024	258		No	
KW600	Kenduskeag West	5/15/2024	1.7		No	
KW651	Kenduskeag West	5/15/2024	41.3		No	
KW650	Kenduskeag West	5/15/2024	17.8		No	
KW702	Kenduskeag West	5/15/2024	89.4		No	
KW701	Kenduskeag West	5/15/2024	97.4		No	
KW703	Kenduskeag West	5/15/2024	147.5		No	
KW655	Kenduskeag West	5/16/2024	118.6		No	
KW656	Kenduskeag West	5/16/2024	71.8		No	
KW654	Kenduskeag West	5/16/2024	48.4		No	
KW653	Kenduskeag West	5/16/2024	177.3		No	
HP022	Hildreth Perry	5/21/2024	269.9		No	
HP021	Hildreth Perry	5/21/2024	233.4		No	
HP020	Hildreth Perry	5/21/2024	388.8		No	
KW703	Kenduskeag West	5/21/2024	115.9	Yes	No	Resurvey after cleaning
KW703	Kenduskeag West	5/21/2024	203.8		Yes	
KW703	Kenduskeag West	5/22/2024	267	Yes	No	Resurvey after cleaning
KW702	Kenduskeag West	5/22/2024	61.5	Yes	No	Resurvey after cleaning
KW706	Kenduskeag West	5/22/2024	226.9		No	
KW705	Kenduskeag West	5/22/2024	13.1		No	
KW704	Kenduskeag West	5/22/2024	63.6		No	
KW750	Kenduskeag West	5/22/2024	29.8		No	
KW707	Kenduskeag West	5/22/2024	0.3		No	
DW287	Dow	5/23/2024	122.1		No	
DW286	Dow	5/23/2024	168.2		No	
MB801	Meadowbrook	5/24/2024	14.8		No	
MB802	Meadowbrook	5/24/2024	13.9		No	
MB803	Meadowbrook	5/24/2024	303.3		No	
AP530	Airport	5/29/2024	245.4		No	
OC111	Old Capehart	6/11/2024	145.4	Yes	No	Remove

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
OC110	Old Capehart	6/11/2024	237.9	Yes	No	Remove
OC103	Old Capehart	6/11/2024	295.8		No	
OC104	Old Capehart	6/11/2024	299.8		No	
OC102	Old Capehart	6/11/2024	321.3		No	
OC101A	Old Capehart	6/11/2024	27.9		No	
OC101	Old Capehart	6/11/2024	281.7		No	
OC490	Old Capehart	6/11/2024	77.3		No	
OC473	Old Capehart	6/11/2024	78.3		No	
OC472	Old Capehart	6/11/2024	301.6		No	
CW014	Cardinal Way	6/12/2024	217.9		No	
CW015	Cardinal Way	6/12/2024	220.5		No	
CW016	Cardinal Way	6/12/2024	174.2		No	
CW050	Cardinal Way	6/12/2024	134.2		No	
CW051	Cardinal Way	6/12/2024	61.5		No	
CW013	Cardinal Way	6/12/2024	109.3		No	
CW012	Cardinal Way	6/12/2024	94.4		No	
CW011	Cardinal Way	6/12/2024	111.9		No	
CW010	Cardinal Way	6/12/2024	127.9		No	
CW009	Cardinal Way	6/12/2024	56.9		No	
CW008	Cardinal Way	6/12/2024	93.5		No	
CW007	Cardinal Way	6/12/2024	45.7		No	
CW006	Cardinal Way	6/12/2024	236		No	
CW005	Cardinal Way	6/12/2024	145.2		No	
CW004	Cardinal Way	6/12/2024	116.7		No	
OC471	Old Capehart	6/13/2024	141.6		No	
OC480	Old Capehart	6/13/2024	258.8		No	
OC152	Old Capehart	6/13/2024	428.7		No	
OC485	Old Capehart	6/13/2024	199.5		No	
OC151	Old Capehart	6/13/2024	426.3		No	
OC150A	Old Capehart	6/13/2024	21.2		No	
OC150	Old Capehart	6/13/2024	69.5		No	
OC364	Old Capehart	6/13/2024	202.5		No	
OC413	Old Capehart	6/13/2024	286.6		No	
OC412	Old Capehart	6/13/2024	288		No	
OC363	Old Capehart	6/13/2024	266.3		No	
OC362	Old Capehart	6/13/2024	248.2		No	
OC360	Old Capehart	6/13/2024	277		No	
OC411	Old Capehart	6/13/2024	205.5		No	
OC361	Old Capehart	6/13/2024	267.7		No	
OC410	Old Capehart	6/13/2024	168.2		No	
OC351	Old Capehart	6/13/2024	3.9		No	
OC350	Old Capehart	6/13/2024	171.2		No	
HK007	Hancock	6/14/2024	361.3		No	
OC306	Old Capehart	6/14/2024	294.9		No	
OC307	Old Capehart	6/14/2024	268.6		No	
OC305	Old Capehart	6/14/2024	303.1		No	
OC304	Old Capehart	6/14/2024	248.7		No	
OC303	Old Capehart	6/14/2024	253.5		No	
OC302	Old Capehart	6/14/2024	260.1		No	
OC301	Old Capehart	6/17/2024	240.6		No	

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
OC300	Old Capehart	6/17/2024	130.4		No	
DB520	Davis Brook	6/17/2024	0	Yes	No	Sinkhole Inspection
DB601	Davis Brook	6/18/2024	271		No	
HK219	Hancock	6/18/2024	299.6		No	
OC017	Old Capehart	6/18/2024	5.9		No	
OC017	Old Capehart	6/18/2024	174		Yes	
OC016	Old Capehart	6/18/2024	75.5		No	
OC015	Old Capehart	6/18/2024	119.2		No	
OC018	Old Capehart	6/18/2024	166		No	
DB520	Davis Brook	6/20/2024	13.7	Yes	No	Post Rehab
DB520	Davis Brook	6/20/2024	118.3	Yes	No	Post Rehab
DB519	Davis Brook	6/20/2024	23.6		No	
MB758	Meadowbrook	6/21/2024	181.3		No	
MB757	Meadowbrook	6/21/2024	227.4		No	
OC409	Old Capehart	6/21/2024	207.2		No	
OC408	Old Capehart	6/21/2024	57.8		No	
OC450	Old Capehart	6/21/2024	198.3		No	
OC451	Old Capehart	6/21/2024	164.5		No	
OC407	Old Capehart	6/24/2024	258.6		No	
OC406	Old Capehart	6/24/2024	176.9		No	
KW301	Kenduskeag West	6/24/2024	94.2		No	
OC408	Old Capehart	6/25/2024	200.8		Yes	
OC421	Old Capehart	6/25/2024	146.8		No	
OC422	Old Capehart	6/25/2024	58.8	Yes	No	Routine Maintenance
AB137	Arctic Brook	6/25/2024	268.4		No	
OC420	Old Capehart	6/25/2024	96		No	
OC402	Old Capehart	6/25/2024	150.9	Yes	No	Remove
OC401	Old Capehart	6/25/2024	193.8	Yes	No	Remove
OC400	Old Capehart	6/25/2024	22.8	Yes	No	Remove
OC431	Old Capehart	6/25/2024	115.5		No	
OC430	Old Capehart	6/25/2024	216.7		No	
OC403	Old Capehart	6/25/2024	214.3		No	
OC405	Old Capehart	6/26/2024	179.5		No	
OC019	Old Capehart	6/26/2024	161.7		No	
OC404	Old Capehart	6/26/2024	160.1		No	
OC020	Old Capehart	6/26/2024	172.8		No	
OC440	Old Capehart	6/26/2024	137.4		No	
OC441	Old Capehart	6/26/2024	199.8		No	
OC013	Old Capehart	6/26/2024	175.4		No	
OC443	Old Capehart	6/26/2024	259.5		No	
OC465	Old Capehart	6/27/2024	180.6		No	
OC466	Old Capehart	6/27/2024	181		No	
OC452	Old Capehart	6/27/2024	161.7		No	
OC453	Old Capehart	6/27/2024	237.5		No	
OC455	Old Capehart	7/1/2024	0		No	
OC460	Old Capehart	7/1/2024	135.2		No	
OC461	Old Capehart	7/1/2024	145		No	
AP530	Airport	7/2/2024	245.5	Yes	No	Post Rehab
AP531	Airport	7/2/2024	77		No	
OC442	Old Capehart	7/2/2024	273		No	

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
OC445	Old Capehart	7/2/2024	271.1		No	
OC444	Old Capehart	7/2/2024	240.1		No	
BV540	Barkersville	7/2/2024	341.9		No	
BV575	Barkersville	7/2/2024	85.3		No	
BV575A	Barkersville	7/2/2024	6.1		No	
BV540A	Barkersville	7/2/2024	2.3		No	
OC014	Old Capehart	7/3/2024	155.7		No	
OC463	Old Capehart	7/3/2024	211.9		No	
OC462	Old Capehart	7/3/2024	235.6		No	
BV595A	Barkersville	7/3/2024	3		No	
BV595	Barkersville	7/3/2024	23.1		No	
BV595	Barkersville	7/5/2024	65.2	Yes	No	Resurvey after cleaning
BV025	Barkersville	7/5/2024	267.3		No	
BV025A	Barkersville	7/5/2024	538.5		No	
DB206	Davis Brook	7/5/2024	188.2		No	
BV515	Barkersville	7/8/2024	122.9		No	
BV479A	Barkersville	7/8/2024	51.5		No	
BV479	Barkersville	7/8/2024	12.8		No	
BV479	Barkersville	7/8/2024	141.3		Yes	
GW102	Glenwood	7/9/2024	310.1		No	
GW101	Glenwood	7/9/2024	250.5		No	
GW100	Glenwood	7/9/2024	249.1		No	
GW005	Glenwood	7/11/2024	119.2		No	
GW004	Glenwood	7/11/2024	179.1		No	
GW003	Glenwood	7/11/2024	190.3		No	
GW002	Glenwood	7/11/2024	203.7		No	
HS011	Husson	7/11/2024	334.7		No	
HS010	Husson	7/11/2024	252.5		No	
HS009	Husson	7/11/2024	318.3	Yes	No	Routine Maintenance
HS008	Husson	7/11/2024	305.2	Yes	No	Routine Maintenance
HS006	Husson	7/11/2024	187	Yes	No	Routine Maintenance
HS005A	Husson	7/11/2024	116	Yes	No	Routine Maintenance
BV515	Barkersville	7/12/2024	299.4	Yes	No	Post Rehab
SL110	Strickland	7/12/2024	173.4		No	
SL101	Strickland	7/12/2024	80.6		No	
SL102	Strickland	7/12/2024	109.3		No	
SL100	Strickland	7/12/2024	137.1		No	
SL011	Strickland	7/16/2024	450		No	
BV541	Barkersville	7/17/2024	192.6		No	
BV541A	Barkersville	7/17/2024	101.7		No	
SL051	Strickland	7/18/2024	306		No	
SL052	Strickland	7/18/2024	303.6		No	
SL053	Strickland	7/18/2024	94.8		No	
SL010	Strickland	7/18/2024	396.2		No	
SL009	Strickland	7/18/2024	45.2		No	
SL008	Strickland	7/18/2024	402.6		No	
SL007	Strickland	7/18/2024	399.3		No	
MB807	Meadowbrook	7/23/2024	400		No	
MB808	Meadowbrook	7/23/2024	401.4		Yes	
KW502	Kenduskeag West	7/23/2024	11.6		No	

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
KW502	Kenduskeag West	7/23/2024	81.3		Yes	
MB806	Meadowbrook	7/23/2024	385.2		No	
MB805	Meadowbrook	7/23/2024	192.2		No	
MB804	Meadowbrook	7/23/2024	9		No	
BV545	Barkersville	7/24/2024	21.7		No	
BV505A	Barkersville	7/24/2024	8.1		No	
BV530	Barkersville	7/24/2024	250.6		No	
BV505	Barkersville	7/24/2024	147.5		No	
SL050	Strickland	7/24/2024	59.3		No	
SL003	Strickland	7/24/2024	305.7		No	
SL002	Strickland	7/24/2024	166.6		No	
CB701A	Carr Brook	7/24/2024	114.1		No	
SL004	Strickland	7/25/2024	354.6		No	
SL006	Strickland	7/25/2024	403.4		No	
SL005	Strickland	7/25/2024	250.6		No	
BV545	Barkersville	7/25/2024	157.9	Yes	No	Resurvey after cleaning
AB450	Arctic Brook	7/30/2024	58.1	Yes	No	Dye Work
BV600A	Barkersville	7/31/2024	35.2		No	
ES201	Everett Street	8/9/2024	219.9		Yes	
ES202	Everett Street	8/9/2024	167.7		No	
ES200	Everett Street	8/9/2024	190.2		No	
ES008	Everett Street	8/9/2024	163.5		No	
ES007	Everett Street	8/9/2024	181.4		No	
ES005	Everett Street	8/19/2024	72.6		No	
ES004	Everett Street	8/19/2024	179		No	
AP531	Airport	8/20/2024	213	Yes	No	Customer Issue
BV006	Barkersville	8/20/2024	153.2	Yes	No	Sinkhole Inspection
AP532	Airport	8/23/2024	67.2		No	
MB367	Meadowbrook	8/27/2024	5.1		No	
MB812	Meadowbrook	8/27/2024	350.8		No	
MB813	Meadowbrook	8/27/2024	349		No	
MB811	Meadowbrook	8/27/2024	317.3		No	
MB367	Meadowbrook	8/28/2024	91.7		Yes	
AP022	Airport	8/28/2024	299.3	Yes	No	Post Rehab
AP023	Airport	8/28/2024	302.2	Yes	No	Post Rehab
AP024	Airport	8/28/2024	301.7	Yes	No	Post Rehab
AB140	Arctic Brook	8/28/2024	265.4		No	
AB141	Arctic Brook	8/28/2024	22.9		No	
AB140	Arctic Brook	8/28/2024	69.3		Yes	
AB142	Arctic Brook	8/28/2024	255.5		No	
AB142	Arctic Brook	8/28/2024	58.3		Yes	
MB861	Meadowbrook	8/28/2024	197.8	Yes	No	Remove
MB862	Meadowbrook	8/28/2024	218.2	Yes	No	Remove
MB863	Meadowbrook	8/28/2024	227.2	Yes	No	Remove
MB864	Meadowbrook	8/28/2024	105	Yes	No	Remove
PJ403	Penjajawoc	8/29/2024	12.3		No	
PJ402	Penjajawoc	8/29/2024	42.9		No	
PJ402	Penjajawoc	8/29/2024	7		Yes	
PJ401	Penjajawoc	8/29/2024	0		Yes	
PJ402	Penjajawoc	8/30/2024	94.6	Yes	No	Resurvey after cleaning

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine

Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
PJ401	Penjajawoc	9/3/2024	88.4	Yes	No	Resurvey after cleaning
PJ400	Penjajawoc	9/3/2024	57.9	Yes	No	Resurvey after cleaning
KW386	Kenduskeag West	9/3/2024	173.9		No	
PJ401	Penjajawoc	9/5/2024	88.4	Yes	No	Resurvey after cleaning
PJ400	Penjajawoc	9/5/2024	185.9		No	
PJ025	Penjajawoc	9/5/2024	164.6		No	
PJ024	Penjajawoc	9/5/2024	82.1		No	
PJ023	Penjajawoc	9/5/2024	170.8		No	
PJ022	Penjajawoc	9/5/2024	56.1		No	
PJ021	Penjajawoc	9/5/2024	195.9		No	
PJ020	Penjajawoc	9/5/2024	24.3		No	
PJ019	Penjajawoc	9/5/2024	4		No	
PJ020	Penjajawoc	9/5/2024	164.9		Yes	
PJ019	Penjajawoc	9/5/2024	19.6	Yes	No	Resurvey after cleaning
PJ019	Penjajawoc	9/10/2024	148.4	Yes	No	Resurvey after cleaning
PJ018	Penjajawoc	9/10/2024	251.1		No	
AP308	Airport	9/12/2024	269.7		No	
MB990	Meadowbrook	9/12/2024	239.6		No	
MB986	Meadowbrook	9/12/2024	273.8		No	
MB995	Meadowbrook	9/12/2024	339.8		No	
KW295	Kenduskeag West	9/12/2024	80.1		No	
KW295A	Kenduskeag West	9/12/2024	48.6		No	
KW295	Kenduskeag West	9/12/2024	9.8	Yes	No	Resurvey after cleaning
KW295	Kenduskeag West	9/12/2024	100	Yes	Yes	Resurvey after cleaning
DB025	Davis Brook	9/17/2024	35.4		No	
DB024A	Davis Brook	9/17/2024	9.9		No	
BV470	Barkersville	9/20/2024	98		No	
BV465A	Barkersville	9/24/2024	36.5		No	
BV465B	Barkersville	9/24/2024	266.7		No	
CB123	Carr Brook	9/24/2024	294.2		No	
MB978	Meadowbrook	9/24/2024	241.2		No	
MB980	Meadowbrook	9/24/2024	206.5		No	
KE370A	Kenduskeag East	9/24/2024	34.9		No	
KE370	Kenduskeag East	9/24/2024	237.5		No	
MB981	Meadowbrook	9/24/2024	454.9		No	
MB982	Meadowbrook	9/24/2024	169.5		No	
MB975	Meadowbrook	9/25/2024	156.1		No	
MB977	Meadowbrook	9/25/2024	223.8		No	
MB951	Meadowbrook	9/25/2024	334.6		No	
MB950	Meadowbrook	9/25/2024	89		No	
DB241	Davis Brook	9/25/2024	0		No	
MB953	Meadowbrook	9/25/2024	301.8		No	
MB952	Meadowbrook	9/25/2024	0		No	
MB954	Meadowbrook	9/25/2024	226.2		No	
MB952	Meadowbrook	9/25/2024	306.7		Yes	
MB955	Meadowbrook	9/25/2024	298.5		No	
MB960	Meadowbrook	9/26/2024	297.8		No	
MB961	Meadowbrook	9/26/2024	187.5		No	
MB962	Meadowbrook	9/26/2024	210.8		No	
MB925	Meadowbrook	9/26/2024	255.4		No	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine

Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
MB920	Meadowbrook	9/26/2024	82.2		Yes	
MB910	Meadowbrook	9/26/2024	255.2		No	
MB911	Meadowbrook	9/26/2024	142.9		No	
MB996	Meadowbrook	9/26/2024	352.3		No	
DB803	Davis Brook	9/30/2024	353.5		No	
DB803A	Davis Brook	9/30/2024	20.6		No	
DB815	Davis Brook	9/30/2024	403.1		No	
MB922	Meadowbrook	10/1/2024	158.5	Yes	No	Routine Maintenance
MB921	Meadowbrook	10/1/2024	331.5	Yes	No	Routine Maintenance
MB922	Meadowbrook	10/1/2024	85.3	Yes	Yes	Routine Maintenance
MB923	Meadowbrook	10/1/2024	292.9	Yes	No	Routine Maintenance
MB985	Meadowbrook	10/1/2024	218.6		No	
DB730	Davis Brook	10/2/2024	100.5		No	
DB730A	Davis Brook	10/4/2024	350.5		No	
DB730A	Davis Brook	10/7/2024	403.8	Yes	No	Resurvey after cleaning
KW290	Kenduskeag West	10/7/2024	7.9		No	
CB037	Carr Brook	10/8/2024	88.4		No	
CB037	Carr Brook	10/8/2024	532.8		Yes	
KW160	Kenduskeag West	10/9/2024	16		No	
KW160A	Kenduskeag West	10/9/2024	54.8		No	
DB704A	Davis Brook	10/9/2024	387.4		No	
DB704	Davis Brook	10/9/2024	204.9		No	
MB030	Meadowbrook	10/15/2024	211.6		No	
MB031	Meadowbrook	10/15/2024	318.4		No	
MB964	Meadowbrook	10/15/2024	300.1		No	
MB965	Meadowbrook	10/15/2024	180.3		No	
MB963	Meadowbrook	10/15/2024	265.6		No	
MB966	Meadowbrook	10/15/2024	185.1		No	
KW290	Kenduskeag West	10/16/2024	43.5	Yes	No	Resurvey after cleaning
KW160	Kenduskeag West	10/16/2024	13.4	Yes	No	Post Rehab
KW160	Kenduskeag West	10/16/2024	63.7	Yes	Yes	Post Rehab
MB768	Meadowbrook	10/17/2024	224		No	
MB767	Meadowbrook	10/17/2024	225.3		No	
MB766	Meadowbrook	10/17/2024	314.4		No	
DB306B	Davis Brook	10/22/2024	5.7	Yes	No	Post Rehab
MB754	Meadowbrook	10/22/2024	271.1		No	
MB765	Meadowbrook	10/22/2024	289.1		No	
DB306C	Davis Brook	10/22/2024	439.6	Yes	No	Post Rehab
DB306C	Davis Brook	10/22/2024	148.4	Yes	Yes	Post Rehab
PJ019	Penjajawoc	10/23/2024	22	Yes	No	Resurvey after cleaning
PJ019	Penjajawoc	10/23/2024	149.1	Yes	No	Resurvey after cleaning
PJ018	Penjajawoc	10/23/2024	417.1	Yes	No	Resurvey after cleaning
KW290	Kenduskeag West	10/25/2024	6.8	Yes	No	Resurvey after cleaning
CB802	Carr Brook	10/28/2024	409		No	
CB802	Carr Brook	10/28/2024	411	Yes	No	Resurvey after cleaning
BV425	Barkersville	10/29/2024	376.1		No	
MB776	Meadowbrook	10/29/2024	427.4		No	
MB777	Meadowbrook	10/29/2024	1.4	Yes	No	Paving List
MB775	Meadowbrook	10/29/2024	228.2		No	
MB036	Meadowbrook	10/29/2024	335.3		No	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
MB037	Meadowbrook	10/29/2024	296.1		No	
MB035	Meadowbrook	10/29/2024	267.2		No	
MB034	Meadowbrook	10/29/2024	237.1	Yes	No	Routine Maintenance
MB033	Meadowbrook	10/30/2024	99.3		No	
MB706	Meadowbrook	10/30/2024	193.5		No	
MB705	Meadowbrook	10/30/2024	206.3		No	
MB704	Meadowbrook	10/30/2024	245.5	Yes	No	Routine Maintenance
MB703	Meadowbrook	10/30/2024	46		No	
AP360	Airport	11/6/2024	160.3		No	Remove
AP360	Airport	11/6/2024	130.5		Yes	
AP360	Airport	11/7/2024	129.4	Yes	No	Remove
AP360	Airport	11/7/2024	12.4	Yes	No	
DB527A	Davis Brook	11/12/2024	221.3		No	
DB527	Davis Brook	11/12/2024	42		No	
DB528	Davis Brook	11/12/2024	444.6		No	
DB530	Davis Brook	11/12/2024	29		No	
DB380A	Davis Brook	11/12/2024	320.7	Yes	No	Post Rehab
DB306B	Davis Brook	11/12/2024	140.9	Yes	No	Post Rehab
DB306B	Davis Brook	11/12/2024	1.9	Yes	Yes	Post Rehab
MS001	Mill Street	11/14/2024	64.2		No	
DB704	Davis Brook	11/14/2024	168.2		No	Remove
DB704A	Davis Brook	11/14/2024	384.6		No	Remove
DB531	Davis Brook	11/15/2024	405.7		No	
MS001	Mill Street	11/15/2024	200.3	Yes	No	Resurvey after cleaning
CB503	Carr Brook	11/18/2024	127.6		No	
MB934	Meadowbrook	11/26/2024	230		No	
MB933	Meadowbrook	11/26/2024	263.1		No	
MB930	Meadowbrook	11/27/2024	157.9		No	
MB931	Meadowbrook	11/27/2024	57.7		No	
MB932	Meadowbrook	11/27/2024	92.6		No	
MB914	Meadowbrook	11/27/2024	255.3		No	
MB915	Meadowbrook	11/27/2024	91.5		No	
MB913	Meadowbrook	11/27/2024	249.9		No	
MB912	Meadowbrook	11/27/2024	67.2		No	
MB752	Meadowbrook	12/2/2024	304.3		No	
MB751	Meadowbrook	12/2/2024	302		No	
MB750	Meadowbrook	12/2/2024	36.1		No	
CB122	Carr Brook	12/3/2024	211.6		No	
OC301	Old Capehart	12/4/2024	240	Yes	No	Resurvey
MB770	Meadowbrook	12/4/2024	330.2		No	
MB771	Meadowbrook	12/4/2024	210.8		No	
MB772	Meadowbrook	12/4/2024	118.2		No	
MB111	Meadowbrook	12/4/2024	223.2		No	
MB112	Meadowbrook	12/4/2024	222.4		No	
MB113	Meadowbrook	12/4/2024	260.2		No	
DB715B	Davis Brook	12/16/2024	101.9		No	
MB970	Meadowbrook	12/17/2024	23.2		No	
MB970	Meadowbrook	12/17/2024	230.7		Yes	
MB905	Meadowbrook	12/17/2024	298.4		No	
MB906	Meadowbrook	12/17/2024	356.8		No	

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine

Calendar Year 2024

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
MB904	Meadowbrook	12/17/2024	245.2		No	
MB903	Meadowbrook	12/17/2024	237.3		No	
HK085	Hancock	12/18/2024	252.3		No	
MB902	Meadowbrook	12/30/2024	238.4		No	

<b>Total Feet</b>	<b>145523.3</b>
<b>Total Miles</b>	<b>27.6</b>

**Appendix B**  
**MANHOLE Inspection Log**

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
BV605	Barkersville	1/3/2024		
BV660A	Barkersville	1/3/2024		
DW270	Dow	1/3/2024		
BV650	Barkersville	1/3/2024		
BV603	Barkersville	1/3/2024		
CB033	Carr Brook	1/3/2024		
BV655	Barkersville	1/3/2024		
CB851A	Carr Brook	1/3/2024		
BV640	Barkersville	1/3/2024		
CB023	Carr Brook	1/3/2024		
CB500	Carr Brook	1/3/2024		
BV601	Barkersville	1/3/2024		
BV645A	Barkersville	1/3/2024		
BV645	Barkersville	1/3/2024		
BV635	Barkersville	1/3/2024		
BV618	Barkersville	1/3/2024		
BV626A	Barkersville	1/3/2024		
BV705	Barkersville	1/3/2024		
BV705A	Barkersville	1/3/2024		
DW277	Dow	1/3/2024		
OC104	Old Capehart	1/4/2024		
OC103	Old Capehart	1/4/2024		
OC110	Old Capehart	1/4/2024		
OC102	Old Capehart	1/4/2024		
OC101	Old Capehart	1/4/2024		
OC150	Old Capehart	1/4/2024		
OC152	Old Capehart	1/4/2024		
OC151	Old Capehart	1/4/2024		
OC017	Old Capehart	1/4/2024		
OC018	Old Capehart	1/4/2024		
OC019	Old Capehart	1/4/2024		
OC020	Old Capehart	1/4/2024		
OC021	Old Capehart	1/4/2024		
OC022	Old Capehart	1/4/2024		
OC023	Old Capehart	1/4/2024		
OC024	Old Capehart	1/4/2024		
OC025	Old Capehart	1/4/2024		
OC026	Old Capehart	1/4/2024		
OC027	Old Capehart	1/4/2024		
OC810	Old Capehart	1/4/2024		
OC852	Old Capehart	1/4/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
BU703	Burleigh	1/5/2024		
CB021	Carr Brook	1/5/2024		
CB210	Carr Brook	1/5/2024		
CB101A	Carr Brook	1/5/2024		
CB102	Carr Brook	1/5/2024		
AB821	Arctic Brook	1/8/2024		
AB820	Arctic Brook	1/8/2024		
AB803	Arctic Brook	1/8/2024		
AB802	Arctic Brook	1/8/2024		
AB801	Arctic Brook	1/8/2024		
AB800	Arctic Brook	1/8/2024		
AB752	Arctic Brook	1/8/2024		
AB760	Arctic Brook	1/8/2024		
AB751	Arctic Brook	1/8/2024		
BV603	Barkersville	1/8/2024	Yes	Paving List
AB750	Arctic Brook	1/8/2024		
DW270	Dow	1/8/2024	Yes	Paving List
BV605	Barkersville	1/8/2024	Yes	Paving List
BV660A	Barkersville	1/8/2024	Yes	Paving List
OC472	Old Capehart	1/8/2024		
OC486	Old Capehart	1/8/2024		
OC481	Old Capehart	1/8/2024		
HK050	Hancock Street	1/8/2024		
HK040	Hancock Street	1/8/2024		
HK041	Hancock Street	1/8/2024		
HK530	Hancock Street	1/8/2024		
HK506	Hancock Street	1/8/2024		
KE208A	Kenduskeag East	1/8/2024		
KE500A	Kenduskeag East	1/8/2024		
KE208D	Kenduskeag East	1/8/2024		
AP346	Airport	1/8/2024		
WL107	Woodlawn	1/8/2024		
AP345	Airport	1/8/2024		
AP344	Airport	1/8/2024		
AP322	Airport	1/9/2024		
AP340	Airport	1/9/2024		
AP341	Airport	1/9/2024		
AP342	Airport	1/9/2024		
CM740	Cemetery	1/9/2024		
CM704	Cemetery	1/9/2024		
AP343	Airport	1/9/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
CM705	Cemetery	1/9/2024		
CM706	Cemetery	1/9/2024		
CM760	Cemetery	1/9/2024		
AP331	Airport	1/9/2024		
AP326	Airport	1/9/2024		
AP350	Airport	1/9/2024		
AP311	Airport	1/9/2024		
AP370	Airport	1/9/2024		
AP372	Airport	1/9/2024		
AP373	Airport	1/9/2024		
SL051	Strickland	1/9/2024		
AB622	Arctic Brook	1/9/2024		
AB630	Arctic Brook	1/9/2024		
AB028	Arctic Brook	1/9/2024		
HS001	Husson	1/9/2024		
HD006	Hampden	1/9/2024		
HP006	Hildreth Perry	1/9/2024		
SL050	Strickland	1/9/2024		
DN002	Dutton Street	1/9/2024		
DN001	Dutton Street	1/9/2024		
KE008	Kenduskeag East	1/9/2024		
HK023	Hancock Street	1/9/2024		
HK021	Hancock Street	1/9/2024		
HK020	Hancock Street	1/9/2024		
CB115	Carr Brook	1/11/2024		
CB113	Carr Brook	1/11/2024		
AB570	Arctic Brook	1/16/2024		
AB561	Arctic Brook	1/16/2024		
AB380	Arctic Brook	1/16/2024		
AB355	Arctic Brook	1/16/2024		
AB420	Arctic Brook	1/16/2024		
AB421	Arctic Brook	1/16/2024		
AB440	Arctic Brook	1/16/2024		
AB470	Arctic Brook	1/16/2024		
AB054	Arctic Brook	1/16/2024		
AB053	Arctic Brook	1/16/2024		
KW605A	Kenduskeag West	1/18/2024		
KW604	Kenduskeag West	1/18/2024		
MB110	Meadowbrook	1/18/2024		
MB140	Meadowbrook	1/18/2024		
MB146	Meadowbrook	1/18/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
KE007	Kenduskeag East	1/23/2024		
KE102	Kenduskeag East	1/23/2024		
KE103	Kenduskeag East	1/23/2024		
AB403	Arctic Brook	1/23/2024		
AB422	Arctic Brook	1/23/2024		
AB424	Arctic Brook	1/23/2024		
AB427	Arctic Brook	1/23/2024		
AB426	Arctic Brook	1/23/2024		
AB425	Arctic Brook	1/23/2024		
AB452	Arctic Brook	1/23/2024		
AB454	Arctic Brook	1/23/2024		
AB456	Arctic Brook	1/23/2024		
AB071	Arctic Brook	1/23/2024		
AB070	Arctic Brook	1/23/2024		
MB023	Meadowbrook	1/23/2024		
FK007	Franklin Street	1/23/2024		
FK010	Franklin Street	1/23/2024		
FS401	Fourteenth Street	1/23/2024		
FS400	Fourteenth Street	1/23/2024		
FS402	Fourteenth Street	1/23/2024		
FS403	Fourteenth Street	1/23/2024		
FS104	Fourteenth Street	1/23/2024		
ES201	Everett Street	1/23/2024		
ES200	Everett Street	1/23/2024		
ES007	Everett Street	1/23/2024		
OC470	Old Capehart	2/5/2024		
OC471	Old Capehart	2/5/2024		
KW060	Kenduskeag West	2/6/2024		
HP226A	Hildreth Perry	2/6/2024		
EK010	it Kenduskeag Intercep	2/6/2024		
KW902	Kenduskeag West	2/6/2024		
DB333	Davis Brook	2/6/2024		
CB123	Carr Brook	2/13/2024		
CB124	Carr Brook	2/13/2024		
CB125	Carr Brook	2/13/2024		
CB126	Carr Brook	2/13/2024		
WL500	Woodlawn	2/13/2024		
WL501	Woodlawn	2/13/2024		
WL530	Woodlawn	2/13/2024		
WL512	Woodlawn	2/13/2024		
OC030	Old Capehart	2/13/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
OC029	Old Capehart	2/13/2024		
KE001	Kenduskeag East	2/14/2024		
KE002	Kenduskeag East	2/14/2024		
WL531	Woodlawn	2/14/2024		
WL503	Woodlawn	2/14/2024		
WL504	Woodlawn	2/14/2024		
WL505	Woodlawn	2/14/2024		
WL506	Woodlawn	2/14/2024		
WL513	Woodlawn	2/14/2024		
WL602	Woodlawn	2/14/2024		
WL601	Woodlawn	2/14/2024		
WL600A	Woodlawn	2/14/2024		
WL511	Woodlawn	2/14/2024		
HK705	Hancock Street	2/15/2024		
CB404	Carr Brook	2/15/2024		
MB964	Meadowbrook	2/15/2024		
MB910	Meadowbrook	2/15/2024		
HP700	Hildreth Perry	2/15/2024		
CB037	Carr Brook	2/15/2024		
CB135	Carr Brook	2/15/2024		
CB133	Carr Brook	2/15/2024		
CB402	Carr Brook	2/15/2024		
WS207	Westland	2/15/2024		
CB151	Carr Brook	2/23/2024		
KI043	Kenduskeag Intercepto	2/27/2024		
KI042	Kenduskeag Intercepto	2/27/2024		
WL106	Woodlawn	2/28/2024		
WL201	Woodlawn	2/28/2024		
WL200	Woodlawn	2/28/2024		
KE370	Kenduskeag East	2/28/2024		
MS208	Mill Street	2/28/2024		
AB490	Arctic Brook	2/28/2024		
BU530	Burleigh	2/28/2024		
CW016	Cardinal Way	2/28/2024		
AB302	Arctic Brook	2/28/2024		
MB262	Meadowbrook	3/1/2024		
KW202	Kenduskeag West	3/1/2024		
KW207	Kenduskeag West	3/1/2024		
KW205	Kenduskeag West	3/1/2024		
KW206	Kenduskeag West	3/1/2024		
KW204	Kenduskeag West	3/1/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
KW220	Kenduskeag West	3/1/2024		
MB261	Meadowbrook	3/4/2024		
KW200	Kenduskeag West	3/4/2024		
KW201	Kenduskeag West	3/4/2024		
KW240	Kenduskeag West	3/4/2024		
KW250	Kenduskeag West	3/4/2024		
KW203	Kenduskeag West	3/4/2024		
HP222	Hildreth Perry	3/6/2024		
HP223	Hildreth Perry	3/6/2024		
HP224	Hildreth Perry	3/6/2024		
HP750	Hildreth Perry	3/6/2024		
HP225	Hildreth Perry	3/6/2024		
HP700	Hildreth Perry	3/6/2024	Yes	I/I
HP850	Hildreth Perry	3/6/2024		
HP226	Hildreth Perry	3/6/2024		
HP801	Hildreth Perry	3/6/2024		
HP802	Hildreth Perry	3/6/2024		
HP226A	Hildreth Perry	3/6/2024	Yes	I/I
AB400	Arctic Brook	3/19/2024		
HP459	Hildreth Perry	3/20/2024		
HP493	Hildreth Perry	3/25/2024		
HP030	Hildreth Perry	3/26/2024		
HP028	Hildreth Perry	3/26/2024		
HP557	Hildreth Perry	3/27/2024		
HP556	Hildreth Perry	3/27/2024		
HP017	Hildreth Perry	3/27/2024		
HP608	Hildreth Perry	3/28/2024		
HP607	Hildreth Perry	3/28/2024		
HP606	Hildreth Perry	3/28/2024		
HP605	Hildreth Perry	3/28/2024		
HP603	Hildreth Perry	3/28/2024		
HP602	Hildreth Perry	3/28/2024		
HP650	Hildreth Perry	3/28/2024		
HP652	Hildreth Perry	3/28/2024		
HP653	Hildreth Perry	3/28/2024		
HP494	Hildreth Perry	3/29/2024		
HP495	Hildreth Perry	3/29/2024		
HP502	Hildreth Perry	3/29/2024		
HP501	Hildreth Perry	3/29/2024		
HP563	Hildreth Perry	4/17/2024		
HP562	Hildreth Perry	4/17/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
HP561	Hildreth Perry	4/17/2024		
HP023	Hildreth Perry	4/17/2024		
HP553	Hildreth Perry	4/17/2024		
HP554	Hildreth Perry	4/17/2024		
DB380A	Davis Brook	4/18/2024		
DB306A	Davis Brook	4/18/2024		
MB865	Meadowbrook	4/18/2024		
MB851	Meadowbrook	4/18/2024		
MB858	Meadowbrook	4/18/2024		
MB857	Meadowbrook	4/18/2024		
MB880	Meadowbrook	4/18/2024		
OC032	Old Capehart	4/19/2024		
OC031	Old Capehart	4/19/2024		
KW090	Kenduskeag West	4/23/2024		
DB306C	Davis Brook	4/26/2024		
MB864	Meadowbrook	5/14/2024		
MB863	Meadowbrook	5/14/2024		
MB832	Meadowbrook	5/14/2024		
MB861	Meadowbrook	5/14/2024		
MB850	Meadowbrook	5/14/2024		
MB808	Meadowbrook	5/14/2024		
MB840	Meadowbrook	5/14/2024		
BV131	Barkersville	5/14/2024		
HP020	Hildreth Perry	5/16/2024		
HP021	Hildreth Perry	5/16/2024		
HP022	Hildreth Perry	5/16/2024		
PJ017	Penjawoc	5/23/2024		
PJ016	Penjawoc	5/23/2024		
PJ015	Penjawoc	5/23/2024		
OC028	Old Capehart	5/28/2024		
KW701	Kenduskeag West	5/31/2024		
KW702	Kenduskeag West	5/31/2024		
KW703	Kenduskeag West	5/31/2024		
KW704	Kenduskeag West	5/31/2024		
KW705	Kenduskeag West	5/31/2024		
KW706	Kenduskeag West	5/31/2024		
BU554	Burleigh	5/31/2024		
BU553	Burleigh	5/31/2024		
BU552	Burleigh	5/31/2024		
BU551	Burleigh	5/31/2024		
BU550	Burleigh	5/31/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
BU542	Burleigh	5/31/2024		
BU560	Burleigh	5/31/2024		
MB109	Meadowbrook	6/4/2024		
MB135	Meadowbrook	6/4/2024		
MB329	Meadowbrook	6/4/2024		
MB327	Meadowbrook	6/4/2024		
MB328	Meadowbrook	6/4/2024		
MB325	Meadowbrook	6/4/2024		
AB550	Arctic Brook	6/4/2024		
HK556	Hancock Street	6/4/2024		
HK555	Hancock Street	6/4/2024		
OC421	Old Capehart	6/25/2024		
HK050	Hancock Street	6/25/2024	Yes	Paving List
AB137	Arctic Brook	6/25/2024		
OC402	Old Capehart	6/25/2024		
HK556	Hancock Street	6/26/2024	Yes	Paving List
HK555	Hancock Street	6/26/2024	Yes	Paving List
HK554	Hancock Street	6/26/2024		
HK553	Hancock Street	6/26/2024		
BV032	Barkersville	6/26/2024		
DB631	Davis Brook	6/26/2024		
HP032	Hildreth Perry	6/27/2024		
HP089	Hildreth Perry	6/27/2024		
HP031	Hildreth Perry	6/27/2024		
BV540A	Barkersville	7/1/2024		
BV575A	Barkersville	7/1/2024		
BV025A	Barkersville	7/1/2024		
BV595A	Barkersville	7/1/2024		
DB631	Davis Brook	7/2/2024	Yes	Paving List
DB630	Davis Brook	7/2/2024		
DB630A	Davis Brook	7/2/2024		
DB612	Davis Brook	7/2/2024		
BV479A	Barkersville	7/8/2024		
CM750	Cemetery	7/11/2024		
CM751	Cemetery	7/11/2024		
KW920	Kenduskeag West	7/11/2024		
KI013	Kenduskeag Intercepto	7/11/2024		
EK018	at Kenduskeag Intercep	7/11/2024		
FK901	Franklin Street	7/11/2024		
FK903	Franklin Street	7/11/2024		
PJ706	Penjawoc	7/11/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
PJ707	Penjawoc	7/11/2024		
PJ708	Penjawoc	7/11/2024		
KW250	Kenduskeag West	7/11/2024	Yes	Paving List
AP653	Airport	7/11/2024		
MB140	Meadowbrook	7/11/2024	Yes	Paving List
MB336	Meadowbrook	7/11/2024		
MB335	Meadowbrook	7/11/2024		
BV121	Barkersville	7/11/2024		
BV120	Barkersville	7/11/2024		
BV119	Barkersville	7/11/2024		
BV515	Barkersville	7/12/2024		
BV541A	Barkersville	7/17/2024		
HK219	Hancock Street	7/18/2024		
HK220	Hancock Street	7/18/2024		
HK221	Hancock Street	7/18/2024		
HK222	Hancock Street	7/18/2024		
HK223	Hancock Street	7/18/2024		
CB851	Carr Brook	7/18/2024		
CB850	Carr Brook	7/18/2024		
BV505A	Barkersville	7/24/2024		
HP024	Hildreth Perry	7/25/2024		
BV600A	Barkersville	7/31/2024		
OC011	Old Capehart	8/5/2024		
BU650	Burleigh	8/22/2024		
AB004	Arctic Brook	8/22/2024		
AB005	Arctic Brook	8/22/2024		
AP022	Airport	8/28/2024		
AP021	Airport	8/28/2024		
AP023	Airport	8/28/2024		
AP024	Airport	8/28/2024		
PJ020	Penjawoc	9/9/2024		
PJ019	Penjawoc	9/9/2024		
PJ018	Penjawoc	9/9/2024		
PJ017	Penjawoc	9/9/2024	Yes	Maintenance Related
PJ016	Penjawoc	9/9/2024	Yes	Maintenance Related
PJ015	Penjawoc	9/9/2024	Yes	Maintenance Related
PJ014	Penjawoc	9/9/2024		
PJ013	Penjawoc	9/9/2024		
BV465B	Barkersville	9/20/2024		
AB450	Arctic Brook	9/24/2024		
AB451	Arctic Brook	9/24/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
AB452	Arctic Brook	9/24/2024	Yes	Paving List
AB453	Arctic Brook	9/24/2024		
AB454	Arctic Brook	9/24/2024	Yes	Paving List
AB455	Arctic Brook	9/24/2024		
AB456	Arctic Brook	9/24/2024	Yes	Paving List
AB436A	Arctic Brook	9/24/2024		
KE370A	Kenduskeag East	9/24/2024		
DB803A	Davis Brook	9/30/2024		
MB111	Meadowbrook	10/3/2024		
MB930	Meadowbrook	10/4/2024		
MB931	Meadowbrook	10/4/2024		
MB932	Meadowbrook	10/4/2024		
MB933	Meadowbrook	10/4/2024		
MB934	Meadowbrook	10/4/2024		
CB700	Carr Brook	10/4/2024		
CB701A	Carr Brook	10/4/2024		
CB701B	Carr Brook	10/4/2024		
CB702	Carr Brook	10/4/2024		
EP065	st Penobscot Intercept	10/4/2024		
EP064	st Penobscot Intercept	10/4/2024		
EP063	st Penobscot Intercept	10/4/2024		
MB760	Meadowbrook	10/4/2024		
MB761	Meadowbrook	10/4/2024		
MB762	Meadowbrook	10/4/2024		
MB763	Meadowbrook	10/4/2024		
CM452	Cemetery	10/4/2024		
CM451	Cemetery	10/4/2024		
KW290	Kenduskeag West	10/7/2024		
KW160A	Kenduskeag West	10/9/2024		
EP070	st Penobscot Intercept	10/16/2024		
PJ002	Penjawoc	10/17/2024		
PJ001	Penjawoc	10/17/2024		
BV310	Barkersville	10/24/2024		
AB355	Arctic Brook	10/24/2024	Yes	Paving List
BV018	Barkersville	10/24/2024		
AB356	Arctic Brook	10/24/2024		
BV510	Barkersville	10/24/2024		
CM452	Cemetery	10/24/2024	Yes	Paving List
BV484	Barkersville	10/24/2024		
AP663	Airport	10/24/2024		
OC503	Old Capehart	10/24/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
OC703	Old Capehart	10/24/2024		
BV540	Barkersville	10/24/2024		
MB340	Meadowbrook	10/25/2024		
MB330	Meadowbrook	10/25/2024		
AB302	Arctic Brook	10/25/2024	Yes	Paving List
AB301	Arctic Brook	10/25/2024		
CB503	Carr Brook	10/28/2024		
CB115	Carr Brook	10/28/2024	Yes	Paving List
CB114	Carr Brook	10/28/2024		
KW182	Kenduskeag West	10/29/2024		
CB113	Carr Brook	10/29/2024	Yes	Paving List
CB112	Carr Brook	10/29/2024		
DW262	Dow	10/29/2024		
DW261	Dow	10/29/2024		
DW260	Dow	10/29/2024		
DW204	Dow	10/29/2024		
DW265	Dow	10/29/2024		
WL025	Woodlawn	10/29/2024		
WL050	Woodlawn	10/29/2024		
WL019	Woodlawn	10/29/2024		
MB710	Meadowbrook	11/4/2024		
MB711	Meadowbrook	11/4/2024		
MB775	Meadowbrook	11/4/2024		
MB776	Meadowbrook	11/4/2024		
BV093	Barkersville	11/4/2024		
BV055	Barkersville	11/4/2024		
DW615	Dow	11/4/2024		
DW553	Dow	11/4/2024		
DW308	Dow	11/4/2024		
DW307	Dow	11/4/2024		
DW306	Dow	11/4/2024		
DW305	Dow	11/4/2024		
DW304	Dow	11/4/2024		
DW303	Dow	11/4/2024		
DW302	Dow	11/4/2024		
DW300	Dow	11/4/2024		
DW015	Dow	11/4/2024		
DW301	Dow	11/4/2024		
BV435	Barkersville	11/4/2024		
BV440	Barkersville	11/4/2024		
DB527A	Davis Brook	11/12/2024		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2024

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
DB527	Davis Brook	11/12/2024		
DB306B	Davis Brook	11/12/2024		
DB704A	Davis Brook	11/18/2024		
WL018	Woodlawn	12/6/2024		
WL020	Woodlawn	12/6/2024		
WL021	Woodlawn	12/6/2024		
WL022	Woodlawn	12/6/2024		
WL023	Woodlawn	12/6/2024		
OC704	Old Capehart	12/6/2024		
<b>TOTAL MANHOLES INSPECTED</b>			<b>460</b>	

**Appendix C**  
**CCTV Repair, Replacement, and Upgrade Log**

## APPENDIX C: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine  
Calendar Year 2024

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
Woodlawn	WL022			Replaced 12.5' of main with 12" PVC	2/2/2024
Barkersville		BV022A		New 8' dia manhole	4/11/2024
Barkersville	BV350A			Replaced 70' of main with 8" PVC	4/11/2024
Barkersville		BV350A		New 4' dia manhole	4/11/2024
Barkersville		BV475A		New 4' dia manhole	4/11/2024
Davis Brook		DB380A		New 4' dia manhole	4/18/2024
Davis Brook		DB306A		New 4' dia manhole	4/18/2024
Davis Brook		DB306C		New 4' dia manhole	4/18/2024
Hildreth Perry	HP229			Replaced 3' of forcemain with 8" DI	4/27/2024
Davis Brook		DB519		New 4' dia manhole	6/20/2024
Barkersville		BV540A		New 4' dia manhole	6/26/2024
Barkersville	BV540A			Replaced 9' of main with 12" PVC	6/26/2024
Barkersville		BV595A		New 4' dia manhole	6/26/2024
Barkersville		BV575A		New 4' dia manhole	6/26/2024
Barkersville		BV025A		Raised lamphole to surface with new frame/cover	6/26/2024
Airport	AP530			Replaced 97' of main with 8" PVC	6/28/2024
Barkersville		BV479A		New 4' dia manhole	7/2/2024
Barkersville	BV515			Replaced 18' of main with 8" PVC	7/9/2024
Barkersville	BV515			Replaced 37' of main with 8" PVC	7/9/2024
Barkersville		BV515		New 4' dia manhole	7/9/2024
Barkersville		BV541A		New 4' dia manhole	7/16/2024
Barkersville	BV545			Replaced 123' of main with 8" PVC	7/16/2024
Barkersville		BV505A		New 4' dia manhole	7/17/2024
Barkersville	BV600A			Replaced 39' of main with 18" PVC	7/23/2024
Barkersville		BV600A		New 4' dia manhole	7/23/2024
Arctic Brook		AB004		Replaced manhole with new 8' dia manhole	8/19/2024
Arctic Brook	AB005			Replaced 62.5' of main with 24" PVC	8/19/2024
Arctic Brook		AB005		Replaced manhole with new 8' dia manhole	8/19/2024
Airport		AP021		Replaced manhole with new 4' dia manhole	8/28/2024
Airport	AP022			Replaced 300' of main with 8" PVC	8/28/2024
Airport		AP022		Replaced manhole with new 4' dia manhole	8/28/2024
Airport	AP023			Replaced 300' of main with 8" PVC	8/28/2024
Airport		AP023		Replaced manhole with new 4' dia manhole	8/28/2024
Airport	AP024			Replaced 300' of main with 8" PVC	8/28/2024
Kenduskeag West		KW295A		New 4' dia manhole	9/12/2024
Barkersville		BV465B		New 4' dia manhole	9/18/2024
Barkersville	BV465A			Replaced 34' of main with 12" PVC	9/18/2024
Kenduskeag East		KE370A		New 4' dia manhole	9/24/2024
Davis Brook		DB803A		New 4' dia manhole	9/24/2024
Davis Brook		DB730A		New 6' dia cut-in manhole	9/30/2024
Kenduskeag West		KW290		New 4' dia manhole	10/2/2024
Davis Brook	DB704A			Replaced 13' of main with 12" PVC	10/2/2024
Davis Brook		DB704A		New 4' dia manhole	10/2/2024
Kenduskeag West		KW160A		New 4' dia manhole	10/7/2024
Davis Brook		DB306B		New 4' dia manhole	10/10/2024
Davis Brook	DB380A			Replaced 43' of brick main with 18" PVC	10/10/2024
Davis Brook	DB527A			Replaced 22' of main with 12" PVC	10/17/2024
Davis Brook		DB527A		New 4' dia manhole	10/17/2024
Davis Brook	DB527			Replaced 44' of main with 12" PVC	10/17/2024
Davis Brook		DB527		Replaced manhole with new 4' dia manhole	10/17/2024
Davis Brook	DB528			Replaced 23' of main with 10" PVC	10/18/2024

## APPENDIX C: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine  
Calendar Year 2024

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
Arctic Brook	AB404A			Broken, deformed pipe with holes and fractures	Within 10 years
Airport	AP308		15' upstream	Deformed, fractured pipe	Within 10 years
Airport	AP445		3' upstream	Collapsed Pipe	Within 5 years
Carr Brook	CB133		147' u/s	Hole	Within 10 years
Davis Brook	DB527A		Various	Small holes along invert	Within 5 years
Davis Brook	DB815		324' upstream	Broken pipe	Within 10 years
Everett Street	ES004			Deformed pipe, small holes	Within 10 years
Hildreth Perry	HP225			Hole, broken pipe	Within 5 years
Hildreth Perry	HP510		Various	Broken pipe, infiltration	Within 10 years
Hildreth Perry	HP750		4' upstream	Large defective offset joint	Within 5 years
Husson	HS003		near upstream manhole	Large offset joint	Within 10 years
Husson	HS005A		near downstream manhole	Large defective offset joint	Within 10 years
Kenduskeag East	KE703		190' upstream	Broken, deformed pipe fractures	Within 10 years
Kenduskeag West	KW251		Various	hinge cracks and fractures. broken pipe, deformed pipe, clogging pipe	Within 10 years
Meadowbrook	MB707		Various	Broken, hinge fractures, hole, deformed pipe	Within 5 years
Meadowbrook	MB952		near upstream manhole	Large defective offset joint	Within 10 years
Old Capehart	OC307		15' upstream	Deformed, fractured pipe	Within 10 years
Old Capehart	OC360		15' upstream	Large defective offset joint	Within 10 years
Old Capehart	OC410		near downstream manhole	Hole, broken pipe	Within 5 years
Old Capehart	OC455		0' upstream	Large hole	Within 5 years
Old Capehart	OC460		60' upstream	Hole	Within 10 years
Old Capehart	OC510		near upstream manhole	Broken pipe with offset joint and infiltration	Within 5 years

**Appendix D**  
**CLEANING Log**

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AB302	Arctic Brook	12/18/2024	314	2	628		
AB353	Arctic Brook	12/17/2024	295	1	295		
AB353	Arctic Brook	12/18/2024	295	2	590	Yes	Routine Flushing
AB450	Arctic Brook	3/5/2024	129	2	258		
AB451	Arctic Brook	3/5/2024	11	2	22		
AB452	Arctic Brook	3/5/2024	126	2	252		
AB453	Arctic Brook	3/5/2024	252	2	504		
AB454	Arctic Brook	3/5/2024	190	2	380		
AB455	Arctic Brook	3/5/2024	44	2	88		
AB456	Arctic Brook	3/5/2024	206	2	412		
AB457	Arctic Brook	3/5/2024	304	2	608		
AB552	Arctic Brook	12/17/2024	96	2	192		Trouble Spot
AP021	Airport	5/13/2024	245	4	980		
AP022	Airport	5/13/2024	300	4	1200		
AP023	Airport	5/9/2024	300	2	600		
AP024	Airport	5/9/2024	299	4	1196		
AP327	Airport	3/26/2024	71	2	142		
AP327	Airport	11/6/2024	71	2	142	Yes	Routine Flushing
AP328	Airport	11/5/2024	306	2	612		
AP329	Airport	11/5/2024	247	2	494		Trouble Spot
AP330	Airport	11/5/2024	238	2	476		Trouble Spot
AP331	Airport	11/5/2024	248	2	496		
AP332	Airport	11/5/2024	302	2	604		
AP333	Airport	11/5/2024	158	2	316		
AP350	Airport	11/6/2024	61	2	122		Trouble Spot
AP351	Airport	11/6/2024	161	2	322		Trouble Spot
AP352	Airport	11/6/2024	322	2	644		Trouble Spot
AP360	Airport	3/26/2024	340	2	680		Trouble Spot
AP360	Airport	3/26/2024	340	2	680	Yes	Trouble Spot
AP360	Airport	11/5/2024	340	2	680	Yes	Trouble Spot
AP360	Airport	11/6/2024	340	4	1360	Yes	Trouble Spot
AP360	Airport	11/7/2024	340	8	2720	Yes	Trouble Spot
AP400	Airport	2/1/2024	67	4	268		
AP401	Airport	2/1/2024	174	2	348		
AP401	Airport	2/1/2024	174	2	348	Yes	Routine Flushing
AP403	Airport	2/1/2024	293	2	586		Trouble Spot
AP404	Airport	2/1/2024	295	2	590		Trouble Spot
AP404	Airport	2/2/2024	295	2	590	Yes	Trouble Spot
AP404	Airport	2/6/2024	295	2	590	Yes	Trouble Spot
AP405	Airport	2/2/2024	302	3	906		
AP406	Airport	2/2/2024	204	3	612		
AP407	Airport	2/2/2024	119	2	238		
AP407	Airport	2/2/2024	119	3	357	Yes	Routine Flushing
AP408	Airport	2/2/2024	67	2	134		
AP409	Airport	2/2/2024	276	2	552		Trouble Spot
AP410	Airport	2/6/2024	303	2	606		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AP411	Airport	2/6/2024	157	4	628		
AP430	Airport	2/6/2024	336	2	672		
AP440	Airport	2/8/2024	323	2	646		
AP441	Airport	2/8/2024	278	2	556		
AP442	Airport	2/6/2024	182	2	364		
AP443	Airport	2/6/2024	267	2	534		
AP444	Airport	2/6/2024	85	2	170		
AP450	Airport	2/6/2024	278	2	556		
AP460	Airport	2/6/2024	84	2	168		
AP461	Airport	2/6/2024	224	2	448		
AP532	Airport	8/22/2024	71	4	284		
BS901	Blanchard Street	7/11/2024	219	2	438		
BS902	Blanchard Street	7/11/2024	103	2	206		
BS903	Blanchard Street	7/11/2024	99	2	198		
BU027	Burleigh	1/4/2024	338	2	676		
BU028	Burleigh	1/4/2024	373	2	746		
BU029	Burleigh	1/4/2024	348	2	696		
BU030	Burleigh	1/4/2024	313	2	626		
BU300	Burleigh	7/19/2024	371	2	742		
BU301	Burleigh	7/19/2024	348	2	696		
BU302	Burleigh	7/19/2024	351	2	702		
BU303	Burleigh	7/19/2024	349	2	698		
BU304	Burleigh	7/19/2024	300	2	600		
BU305	Burleigh	7/18/2024	300	4	1200		
BU306	Burleigh	7/18/2024	301	2	602		
BU307	Burleigh	7/18/2024	399	2	798		
BU308	Burleigh	7/18/2024	400	2	800		
BU309	Burleigh	7/18/2024	406	4	1624		
BU310	Burleigh	7/18/2024	340	4	1360		
BU311	Burleigh	7/18/2024	169	2	338		
BU311A	Burleigh	7/18/2024	182	2	364		
BU312	Burleigh	7/18/2024	450	2	900		
BU400	Burleigh	4/18/2024	418	6	2508		
BU401	Burleigh	5/14/2024	338	2	676		
BU401	Burleigh	5/14/2024	338	4	1352	Yes	Grease
BU402	Burleigh	5/14/2024	401	2	802		
BU403	Burleigh	5/14/2024	357	4	1428		
BU404	Burleigh	5/14/2024	315	4	1260		
BV030	Barkersville	5/9/2024	600	2	1200		
BV034	Barkersville	4/10/2024	385	2	770		
BV120	Barkersville	12/18/2024	311	2	622		
BV131	Barkersville	2/2/2024	0	0	0		
BV202	Barkersville	5/9/2024	622	2	1244		
BV203	Barkersville	5/9/2024	398	2	796		
BV204	Barkersville	5/9/2024	368	2	736		
BV205	Barkersville	5/9/2024	255	2	510		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
BV206	Barkersville	5/9/2024	262	2	524		
BV207	Barkersville	5/9/2024	493	2	986		
BV208	Barkersville	5/7/2024	398	2	796		
BV208	Barkersville	5/9/2024	398	2	796	Yes	Perry Rd Investigation
BV209	Barkersville	5/7/2024	355	2	710		
BV210	Barkersville	5/7/2024	237	2	474		
BV214	Barkersville	5/7/2024	351	2	702		
BV215	Barkersville	5/7/2024	347	2	694		
BV216	Barkersville	3/27/2024	519	2	1038		
BV217	Barkersville	3/27/2024	147	2	294		
BV217A	Barkersville	3/27/2024	233	2	466		
BV218	Barkersville	3/27/2024	262	2	524		
BV220	Barkersville	3/13/2024	99	2	198		
BV220	Barkersville	5/13/2024	99	2	198	Yes	Perry Rd Investigation
BV221	Barkersville	3/13/2024	275	2	550		
BV221A	Barkersville	3/13/2024	194	2	388		
BV545	Barkersville	7/25/2024	160	2	320		
CB122	Carr Brook	9/23/2024	213	2	426		
CB123	Carr Brook	9/23/2024	295	2	590		
CB124	Carr Brook	9/23/2024	347	2	694		
CB125	Carr Brook	9/23/2024	331	2	662		
CB126	Carr Brook	9/23/2024	356	2	712		Trouble Spot
CB162	Carr Brook	1/26/2024	272	2	544		
CB407	Carr Brook	1/26/2024	158	2	316		Trouble Spot
CB702	Carr Brook	1/16/2024	432	2	864		Trouble Spot
CM521	Cemetery	4/10/2024	76	2	152		
CW008	Cardinal Way	4/10/2024	97	2	194		
CW009	Cardinal Way	4/10/2024	60	2	120		
CW010	Cardinal Way	4/10/2024	130	2	260		
CW012	Cardinal Way	4/10/2024	97	2	194		
CW013	Cardinal Way	4/10/2024	111	2	222		
CW014	Cardinal Way	4/10/2024	219	2	438		
CW015	Cardinal Way	4/10/2024	221	2	442		
CW016	Cardinal Way	4/10/2024	176	2	352		
CW050	Cardinal Way	4/10/2024	135	2	270		
CW051	Cardinal Way	4/10/2024	66	2	132		
DB306	Davis Brook	2/22/2024	600	2	1200		
DB306	Davis Brook	4/23/2024	800	4	3200	Yes	Post Rehab Insp
DB306	Davis Brook	4/24/2024	600	4	2400	Yes	Post Rehab Insp
DB306B	Davis Brook	11/12/2024	151	4	604		
DB306C	Davis Brook	10/22/2024	591	6	3546		
DB380A	Davis Brook	10/22/2024	318	2	636		
DB704	Davis Brook	11/14/2024	675	1	675		
DB704A	Davis Brook	11/14/2024	389	2	778		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
DB730	Davis Brook	10/2/2024	146	12	1752		
DB901	Davis Brook	4/2/2024	400	2	800		
DB901	Davis Brook	4/2/2024	400	2	800	Yes	Heavy Cleaning Needed
DB915	Davis Brook	4/2/2024	598	2	1196		
DW206	Dow	10/30/2024	517	4	2068		
DW260	Dow	10/30/2024	248	2	496		Trouble Spot
DW261	Dow	10/30/2024	305	2	610		
DW262	Dow	12/16/2024	398	2	796		
DW265	Dow	10/30/2024	109	2	218		Trouble Spot
ES003	Everett Street	7/24/2024	159	2	318		
ES003A	Everett Street	7/24/2024	139	2	278		
ES004	Everett Street	7/24/2024	182	2	364		
ES005	Everett Street	7/24/2024	78	2	156		
ES008	Everett Street	5/2/2024	165	3	495		
ES008	Everett Street	7/24/2024	165	2	330	Yes	Routine Flushing
ES200	Everett Street	7/24/2024	192	2	384		
ES201	Everett Street	7/24/2024	219	2	438		
ES202	Everett Street	7/24/2024	167	2	334		
ES203	Everett Street	7/24/2024	64	2	128		
ES204	Everett Street	7/24/2024	46	2	92		
FS008	Fourteenth Street	2/12/2024	128	2	256		
FS400	Fourteenth Street	2/12/2024	19	2	38		
FS401	Fourteenth Street	2/12/2024	58	2	116		
FS402	Fourteenth Street	2/12/2024	351	2	702		
FS403	Fourteenth Street	2/12/2024	159	2	318		
FS404	Fourteenth Street	2/12/2024	127	2	254		
FS405	Fourteenth Street	2/12/2024	302	2	604		
FS406	Fourteenth Street	2/12/2024	144	2	288		
FS407	Fourteenth Street	2/12/2024	382	2	764		
FS600	Fourteenth Street	2/12/2024	156	1	156		
GW004	Glenwood	7/3/2024	180	2	360		
GW005	Glenwood	7/3/2024	119	2	238		
GW100	Glenwood	7/3/2024	248	2	496		
GW102	Glenwood	7/2/2024	309	2	618		
HK085	Hancock	12/17/2024	247	2	494		Trouble Spot
HP002	Hildreth Perry	4/10/2024	96	2	192		
HP003	Hildreth Perry	4/10/2024	184	2	368		
HP007	Hildreth Perry	3/14/2024	162	2	324		
HP011	Hildreth Perry	3/14/2024	265	2	530		
HP012	Hildreth Perry	3/14/2024	34	2	68		
HP013	Hildreth Perry	3/14/2024	328	2	656		
HP014	Hildreth Perry	3/14/2024	349	2	698		
HP015	Hildreth Perry	3/14/2024	275	2	550		
HP016	Hildreth Perry	3/14/2024	303	2	606		
HP017	Hildreth Perry	3/14/2024	230	2	460		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
HP018	Hildreth Perry	3/14/2024	480	2	960		
HP019	Hildreth Perry	3/14/2024	388	2	776		
HP020	Hildreth Perry	5/20/2024	374	2	748		
HP021	Hildreth Perry	5/20/2024	236	2	472		
HP022	Hildreth Perry	5/20/2024	268	2	536		
HP023	Hildreth Perry	5/20/2024	282	3	846		
HP024	Hildreth Perry	3/13/2024	460	2	920		
HP028	Hildreth Perry	3/13/2024	337	2	674		
HP029	Hildreth Perry	3/13/2024	312	2	624		
HP030	Hildreth Perry	3/13/2024	319	2	638		
HP031	Hildreth Perry	3/4/2024	422	2	844		
HP032	Hildreth Perry	3/4/2024	450	2	900		
HP033	Hildreth Perry	3/4/2024	387	2	774		
HP035	Hildreth Perry	3/26/2024	205	2	410		
HP036	Hildreth Perry	3/26/2024	439	2	878		
HP037	Hildreth Perry	3/27/2024	34	2	68		
HP050	Hildreth Perry	3/14/2024	104	2	208		
HP051	Hildreth Perry	3/14/2024	390	2	780		
HP055	Hildreth Perry	3/14/2024	143	2	286		
HP055A	Hildreth Perry	3/14/2024	88	2	176		
HP071	Hildreth Perry	3/13/2024	353	2	706		
HP072	Hildreth Perry	3/13/2024	346	2	692		
HP073	Hildreth Perry	3/13/2024	74	2	148		
HP089	Hildreth Perry	3/27/2024	11	2	22		
HP090	Hildreth Perry	3/27/2024	453	2	906		
HP205	Hildreth Perry	3/27/2024	537	2	1074		
HP224S2	Hildreth Perry	3/5/2024	51	2	102		
HP225	Hildreth Perry	3/6/2024	333	2	666		
HP226	Hildreth Perry	3/6/2024	520	2	1040		
HP226A	Hildreth Perry	3/5/2024	298	2	596		
HP227	Hildreth Perry	3/5/2024	233	2	466		
HP228	Hildreth Perry	3/5/2024	471	2	942		
HP233	Hildreth Perry	3/4/2024	295	4	1180		
HP234	Hildreth Perry	3/12/2024	310	2	620		
HP235	Hildreth Perry	3/4/2024	245	2	490		
HP236	Hildreth Perry	3/4/2024	132	6	792		
HP237	Hildreth Perry	3/4/2024	302	2	604		
HP238	Hildreth Perry	3/4/2024	301	2	602		
HP239	Hildreth Perry	3/4/2024	109	4	436		
HP300	Hildreth Perry	3/14/2024	189	2	378		
HP301	Hildreth Perry	3/14/2024	146	2	292		
HP302	Hildreth Perry	3/14/2024	144	2	288		
HP400	Hildreth Perry	3/27/2024	277	2	554		
HP401	Hildreth Perry	3/27/2024	349	2	698		
HP402	Hildreth Perry	3/27/2024	179	2	358		
HP403	Hildreth Perry	3/14/2024	132	2	264		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
HP404	Hildreth Perry	3/27/2024	74	2	148		
HP405	Hildreth Perry	3/27/2024	20	2	40		
HP408	Hildreth Perry	4/8/2024	398	2	796		
HP411	Hildreth Perry	4/8/2024	342	2	684		
HP415	Hildreth Perry	4/3/2024	380	2	760		
HP418	Hildreth Perry	4/3/2024	350	2	700		
HP435	Hildreth Perry	3/14/2024	15	2	30		
HP450	Hildreth Perry	3/14/2024	158	2	316		
HP451	Hildreth Perry	3/14/2024	324	2	648		
HP452	Hildreth Perry	3/14/2024	72	2	144		
HP453	Hildreth Perry	3/14/2024	102	2	204		
HP454	Hildreth Perry	3/14/2024	197	2	394		
HP455	Hildreth Perry	3/14/2024	203	2	406		
HP456	Hildreth Perry	3/14/2024	124	2	248		
HP457	Hildreth Perry	3/14/2024	300	2	600		
HP458	Hildreth Perry	3/14/2024	298	2	596		
HP466	Hildreth Perry	3/27/2024	318	2	636		Trouble Spot
HP480	Hildreth Perry	3/27/2024	216	2	432		
HP494	Hildreth Perry	3/27/2024	50	2	100		
HP495	Hildreth Perry	3/27/2024	252	2	504		
HP500	Hildreth Perry	3/27/2024	225	2	450		
HP501	Hildreth Perry	3/20/2024	258	4	1032		
HP502	Hildreth Perry	3/19/2024	316	2	632		
HP502	Hildreth Perry	3/20/2024	316	2	632	Yes	Heavy Cleaning Needed
HP502	Hildreth Perry	3/20/2024	316	2	632	Yes	Heavy Cleaning Needed
HP510	Hildreth Perry	3/19/2024	231	2	462		
HP511	Hildreth Perry	3/20/2024	113	2	226		
HP512	Hildreth Perry	3/19/2024	112	2	224		
HP557	Hildreth Perry	3/28/2024	371	2	742		
HP558	Hildreth Perry	3/28/2024	354	2	708		
HP559	Hildreth Perry	3/28/2024	349	2	698		
HP560	Hildreth Perry	3/28/2024	346	2	692		
HP561	Hildreth Perry	3/28/2024	348	2	696		
HP562	Hildreth Perry	3/28/2024	346	2	692		
HP563	Hildreth Perry	3/28/2024	133	2	266		
HP602	Hildreth Perry	3/19/2024	238	2	476		
HP603	Hildreth Perry	3/19/2024	299	2	598		
HP604	Hildreth Perry	3/19/2024	280	2	560		
HP605	Hildreth Perry	3/19/2024	286	2	572		
HP606	Hildreth Perry	3/19/2024	297	2	594		
HP607	Hildreth Perry	3/19/2024	280	2	560		
HP608	Hildreth Perry	3/19/2024	245	2	490		
HP650	Hildreth Perry	3/19/2024	260	2	520		
HP651	Hildreth Perry	3/19/2024	249	2	498		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
HP652	Hildreth Perry	3/19/2024	250	2	500		
HP653	Hildreth Perry	3/19/2024	240	2	480		
HP700	Hildreth Perry	3/6/2024	399	2	798		
HP750	Hildreth Perry	3/6/2024	452	2	904		
HP800	Hildreth Perry	3/12/2024	238	2	476		
HP800A	Hildreth Perry	3/12/2024	401	2	802		
HP801	Hildreth Perry	3/14/2024	281	2	562		
HP802	Hildreth Perry	3/14/2024	698	2	1396		
HP803	Hildreth Perry	3/13/2024	105	2	210		
HP902	Hildreth Perry	3/12/2024	175	2	350		
HP903	Hildreth Perry	3/13/2024	142	2	284		
HP903	Hildreth Perry	3/26/2024	142	4	568	Yes	Heavy Cleaning Needed
HP904	Hildreth Perry	3/26/2024	170	4	680		
HP950	Hildreth Perry	3/13/2024	320	2	640		
HP951	Hildreth Perry	3/13/2024	402	2	804		
HS002	Husson	1/3/2024	204	2	408		
HS003	Husson	1/3/2024	261	2	522		
HS004	Husson	1/3/2024	50	2	100		
HS005	Husson	1/3/2024	50	2	100		
HS005A	Husson	1/3/2024	116	2	232		
HS006	Husson	1/3/2024	185	2	370		
HS006A	Husson	1/3/2024	149	2	298		Trouble Spot
HS006B	Husson	1/3/2024	31	2	62		Trouble Spot
HS007	Husson	1/3/2024	72	2	144		Trouble Spot
HS008	Husson	1/3/2024	301	2	602		
HS009	Husson	1/3/2024	317	2	634		
HS009	Husson	7/11/2024	317	1	317	Yes	Routine Flushing
HS010	Husson	7/11/2024	249	1	249		
HS011	Husson	7/11/2024	335	1	335		
HS401	Husson	7/12/2024	249	2	498		
HS500	Husson	1/3/2024	301	2	602		Trouble Spot
HS500	Husson	5/14/2024	302	2	604	Yes	Trouble Spot
HS500	Husson	9/19/2024	302	2	604	Yes	Trouble Spot
HS500	Husson	11/25/2024	302	2	604	Yes	Trouble Spot
KE004	Kenduskeag East	1/17/2024	100	4	400		
KI029	Kenduskeag Interceptor	3/28/2024	160	2	320		
KI030	Kenduskeag Interceptor	3/28/2024	226	2	452		
KI032	Kenduskeag Interceptor	3/28/2024	196	2	392		
KI033	Kenduskeag Interceptor	3/28/2024	302	2	604		
KI035	Kenduskeag Interceptor	3/28/2024	181	2	362		
KI036	Kenduskeag Interceptor	3/28/2024	301	2	602		
KI038	Kenduskeag Interceptor	3/28/2024	247	2	494		
KI039	Kenduskeag Interceptor	3/28/2024	245	2	490		
KI045	Kenduskeag Interceptor	3/28/2024	302	2	604		
KI046	Kenduskeag Interceptor	3/28/2024	285	2	570		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
KW002	Kenduskeag West	4/16/2024	57	4	228		
KW002	Kenduskeag West	5/2/2024	57	2	114	Yes	Routine Flushing
KW010	Kenduskeag West	4/16/2024	87	2	174		
KW011	Kenduskeag West	4/16/2024	193	2	386		
KW012	Kenduskeag West	4/16/2024	189	2	378		
KW013	Kenduskeag West	4/16/2024	266	2	532		
KW106	Kenduskeag West	3/29/2024	20	2	40		
KW160	Kenduskeag West	10/16/2024	186	2	372		
KW180	Kenduskeag West	3/29/2024	244	2	488		
KW183	Kenduskeag West	3/29/2024	93	2	186		
KW184	Kenduskeag West	4/25/2024	131	2	262		
KW185	Kenduskeag West	4/25/2024	98	2	196		
KW186A	Kenduskeag West	3/29/2024	134	2	268		
KW186A	Kenduskeag West	4/25/2024	134	2	268	Yes	Roots
KW187	Kenduskeag West	4/25/2024	155	2	310		
KW202	Kenduskeag West	4/16/2024	376	2	752		
KW260	Kenduskeag West	4/25/2024	181	2	362		
KW261	Kenduskeag West	4/25/2024	282	2	564		
KW290	Kenduskeag West	10/16/2024	175	1	175		
KW290	Kenduskeag West	11/14/2024	175	2	350	Yes	Post Rehab Insp
KW295	Kenduskeag West	9/12/2024	297	2	594		
KW295	Kenduskeag West	9/12/2024	297	2	594	Yes	Post Rehab Insp
KW301	Kenduskeag West	7/11/2024	99	2	198		
KW301A	Kenduskeag West	7/11/2024	24	2	48		
KW652	Kenduskeag West	12/18/2024	96	2	192		
KW653	Kenduskeag West	3/29/2024	177	2	354		
KW654	Kenduskeag West	3/29/2024	53	2	106		
KW655	Kenduskeag West	3/29/2024	122	2	244		
KW656	Kenduskeag West	3/29/2024	73	2	146		
KW657	Kenduskeag West	3/29/2024	136	2	272		
KW658	Kenduskeag West	3/29/2024	71	2	142		
KW659	Kenduskeag West	3/29/2024	167	2	334		
KW660	Kenduskeag West	3/29/2024	49	2	98		
KW690	Kenduskeag West	12/18/2024	54	2	108		
KW690	Kenduskeag West	12/18/2024	54	2	108	Yes	Routine Flushing
KW701	Kenduskeag West	5/22/2024	99	4	396		
KW702	Kenduskeag West	5/22/2024	92	3	276		
KW703	Kenduskeag West	5/16/2024	267	14	3738		
KW703	Kenduskeag West	5/17/2024	267	10	2670	Yes	Heavy Cleaning Needed
KW703	Kenduskeag West	5/21/2024	267	16	4272	Yes	Heavy Cleaning Needed
KW703	Kenduskeag West	5/22/2024	267	6	1602	Yes	Heavy Cleaning Needed
KW704	Kenduskeag West	5/22/2024	67	3	201		
KW705	Kenduskeag West	5/22/2024	13	2	26		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
KW706	Kenduskeag West	5/22/2024	238	2	476		
KW707	Kenduskeag West	5/22/2024	10	2	20		
KW750	Kenduskeag West	5/22/2024	35	2	70		
KW940	Kenduskeag West	5/2/2024	223	2	446		
MB001	Meadowbrook	4/8/2024	48	2	96		
MB002	Meadowbrook	4/8/2024	189	2	378		
MB006	Meadowbrook	11/12/2024	230	1	230		
MB007	Meadowbrook	11/12/2024	195	1	195		
MB008	Meadowbrook	11/12/2024	196	1	196		
MB008	Meadowbrook	11/13/2024	196	2	392	Yes	Heavy Cleaning Needed
MB009	Meadowbrook	11/12/2024	183	1	183		
MB009	Meadowbrook	11/13/2024	183	2	366	Yes	Heavy Cleaning Needed
MB010	Meadowbrook	4/8/2024	271	2	542		
MB019A	Meadowbrook	4/9/2024	343	2	686		
MB019A	Meadowbrook	4/10/2024	343	2	686	Yes	Heavy Cleaning Needed
MB025	Meadowbrook	4/11/2024	234	2	468		
MB030	Meadowbrook	10/24/2024	213	2	426		
MB031	Meadowbrook	10/24/2024	317	2	634		
MB032	Meadowbrook	10/24/2024	319	2	638		
MB033	Meadowbrook	10/24/2024	104	2	208		
MB034	Meadowbrook	10/24/2024	236	2	472		
MB035	Meadowbrook	10/24/2024	267	2	534		
MB036	Meadowbrook	10/24/2024	334	2	668		
MB037	Meadowbrook	10/24/2024	295	2	590		
MB042	Meadowbrook	4/10/2024	281	2	562		
MB045	Meadowbrook	10/10/2024	147	4	588		
MB046	Meadowbrook	10/10/2024	248	4	992		
MB047	Meadowbrook	9/30/2024	176	2	352		
MB047	Meadowbrook	10/10/2024	176	4	704	Yes	Heavy Cleaning Needed
MB050	Meadowbrook	4/10/2024	243	2	486		
MB060	Meadowbrook	11/12/2024	145	2	290		
MB060	Meadowbrook	11/13/2024	145	2	290	Yes	Heavy Cleaning Needed
MB075	Meadowbrook	4/9/2024	172	2	344		
MB100	Meadowbrook	11/7/2024	22	2	44		
MB101	Meadowbrook	11/7/2024	24	2	48		
MB102	Meadowbrook	11/7/2024	96	2	192		
MB103	Meadowbrook	11/7/2024	168	2	336		
MB104	Meadowbrook	11/7/2024	265	2	530		
MB105	Meadowbrook	11/6/2024	28	2	56		
MB106	Meadowbrook	11/6/2024	189	2	378		
MB107	Meadowbrook	11/6/2024	172	2	344		
MB108	Meadowbrook	11/6/2024	34	2	68		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB109	Meadowbrook	11/5/2024	238	2	476		
MB110	Meadowbrook	11/5/2024	205	2	410		
MB111	Meadowbrook	11/5/2024	225	2	450		
MB112	Meadowbrook	10/16/2024	222	2	444		
MB120	Meadowbrook	11/7/2024	371	2	742		
MB125	Meadowbrook	11/6/2024	127	2	254		
MB130	Meadowbrook	11/5/2024	255	2	510		
MB135	Meadowbrook	11/6/2024	214	2	428		
MB140	Meadowbrook	11/5/2024	208	2	416		
MB141	Meadowbrook	10/16/2024	342	2	684		
MB201	Meadowbrook	11/12/2024	74	1	74		
MB202	Meadowbrook	11/13/2024	83	2	166		
MB203	Meadowbrook	11/13/2024	79	2	158		
MB204	Meadowbrook	11/12/2024	120	1	120		
MB205	Meadowbrook	11/12/2024	73	1	73		
MB206	Meadowbrook	11/7/2024	167	2	334		
MB207	Meadowbrook	11/7/2024	248	2	496		
MB208	Meadowbrook	11/7/2024	171	2	342		
MB209	Meadowbrook	11/7/2024	112	2	224		
MB210	Meadowbrook	11/7/2024	45	2	90		
MB220	Meadowbrook	11/7/2024	34	2	68		
MB221	Meadowbrook	11/7/2024	126	2	252		
MB222	Meadowbrook	11/7/2024	113	2	226		
MB260	Meadowbrook	11/12/2024	219	1	219		
MB315	Meadowbrook	10/30/2024	320	2	640		
MB316	Meadowbrook	10/30/2024	359	2	718		
MB320	Meadowbrook	4/10/2024	27	2	54		
MB321	Meadowbrook	4/10/2024	336	2	672		
MB322	Meadowbrook	3/27/2024	163	2	326		
MB346	Meadowbrook	10/25/2024	89	2	178		
MB367	Meadowbrook	8/12/2024	99	6	594		
MB406	Meadowbrook	4/9/2024	178	2	356		
MB407	Meadowbrook	4/9/2024	162	2	324		
MB477	Meadowbrook	9/26/2024	207	2	414		
MB478	Meadowbrook	4/9/2024	214	2	428		
MB478	Meadowbrook	9/26/2024	214	2	428	Yes	Routine Flushing
MB480	Meadowbrook	4/10/2024	40	2	80		
MB480	Meadowbrook	9/26/2024	40	2	80	Yes	Routine Flushing
MB481	Meadowbrook	4/10/2024	136	2	272		
MB481	Meadowbrook	9/26/2024	136	2	272	Yes	Routine Flushing
MB518	Meadowbrook	9/26/2024	33	2	66		
MB519	Meadowbrook	9/26/2024	121	2	242		
MB520	Meadowbrook	9/26/2024	302	2	604		
MB521	Meadowbrook	9/26/2024	114	2	228		
MB559	Meadowbrook	4/10/2024	27	2	54		
MB560	Meadowbrook	4/9/2024	242	2	484		Trouble Spot

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB560	Meadowbrook	4/10/2024	242	2	484	Yes	Trouble Spot
MB561	Meadowbrook	4/9/2024	43	2	86		
MB576	Meadowbrook	9/26/2024	328	2	656		
MB650	Meadowbrook	4/11/2024	75	2	150		
MB655	Meadowbrook	4/11/2024	200	3	600		
MB657	Meadowbrook	4/11/2024	408	2	816		
MB658	Meadowbrook	4/11/2024	101	2	202		
MB704	Meadowbrook	4/9/2024	245	2	490		
MB705	Meadowbrook	10/31/2024	210	2	420		
MB706	Meadowbrook	10/31/2024	198	2	396		
MB707	Meadowbrook	4/9/2024	150	2	300		
MB753	Meadowbrook	10/31/2024	210	2	420		
MB755A	Meadowbrook	4/9/2024	1	2	2		
MB757	Meadowbrook	10/22/2024	226	2	452		
MB758	Meadowbrook	10/22/2024	182	2	364		
MB759	Meadowbrook	6/21/2024	66	2	132		Trouble Spot
MB759	Meadowbrook	7/25/2024	66	1	66	Yes	Trouble Spot
MB759	Meadowbrook	10/18/2024	66	2	132	Yes	Trouble Spot
MB759	Meadowbrook	10/25/2024	66	2	132	Yes	Trouble Spot
MB759	Meadowbrook	11/1/2024	66	2	132	Yes	Trouble Spot
MB760	Meadowbrook	10/31/2024	300	2	600		
MB761	Meadowbrook	10/31/2024	297	2	594		
MB762	Meadowbrook	10/31/2024	297	2	594		
MB763	Meadowbrook	10/23/2024	314	2	628		
MB766	Meadowbrook	10/31/2024	312	2	624		
MB767	Meadowbrook	9/27/2024	228	2	456		
MB768	Meadowbrook	9/27/2024	222	2	444		
MB775	Meadowbrook	10/24/2024	228	2	456		
MB776	Meadowbrook	10/24/2024	422	1	422		
MB777	Meadowbrook	4/9/2024	15	1	15		
MB800	Meadowbrook	4/10/2024	147	2	294		
MB800	Meadowbrook	5/23/2024	147	4	588	Yes	Heavy Cleaning Needed
MB801	Meadowbrook	5/24/2024	10	2	20		
MB802	Meadowbrook	5/23/2024	14	6	84		
MB803	Meadowbrook	5/23/2024	382	6	2292		Trouble Spot
MB805	Meadowbrook	7/22/2024	195	2	390		
MB806	Meadowbrook	7/22/2024	384	2	768		
MB807	Meadowbrook	7/22/2024	400	2	800		
MB808	Meadowbrook	7/22/2024	400	2	800		
MB808A	Meadowbrook	4/9/2024	235	2	470		
MB809A	Meadowbrook	11/13/2024	53	2	106		
MB810	Meadowbrook	11/13/2024	44	2	88		
MB811	Meadowbrook	11/13/2024	369	2	738		
MB812	Meadowbrook	4/9/2024	349	2	698		
MB812	Meadowbrook	11/7/2024	349	2	698	Yes	Routine Flushing

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB813	Meadowbrook	11/7/2024	351	2	702		
MB815	Meadowbrook	5/24/2024	6	2	12		
MB821	Meadowbrook	9/19/2024	317	2	634		
MB830	Meadowbrook	7/22/2024	318	2	636		
MB831	Meadowbrook	7/22/2024	252	2	504		
MB832	Meadowbrook	9/12/2024	238	2	476		
MB832	Meadowbrook	10/16/2024	238	2	476	Yes	Routine Flushing
MB850	Meadowbrook	11/7/2024	307	2	614		
MB851	Meadowbrook	9/18/2024	421	2	842		Trouble Spot
MB852	Meadowbrook	8/28/2024	251	2	502		
MB853	Meadowbrook	8/27/2024	259	2	518		
MB854	Meadowbrook	8/27/2024	412	2	824		
MB855	Meadowbrook	8/27/2024	231	2	462		
MB856	Meadowbrook	8/27/2024	124	2	248		
MB858	Meadowbrook	8/27/2024	61	2	122		
MB860	Meadowbrook	9/12/2024	239	2	478		
MB860	Meadowbrook	9/16/2024	239	2	478	Yes	Routine Flushing
MB860	Meadowbrook	10/16/2024	239	2	478	Yes	Routine Flushing
MB861	Meadowbrook	9/12/2024	199	2	398		
MB861	Meadowbrook	10/16/2024	199	2	398	Yes	Routine Flushing
MB862	Meadowbrook	9/12/2024	219	2	438		
MB862	Meadowbrook	10/16/2024	219	2	438	Yes	Routine Flushing
MB863	Meadowbrook	9/12/2024	227	2	454		
MB863	Meadowbrook	9/16/2024	227	2	454	Yes	Routine Flushing
MB863	Meadowbrook	10/16/2024	227	2	454	Yes	Routine Flushing
MB864	Meadowbrook	9/12/2024	105	2	210		
MB864	Meadowbrook	9/16/2024	105	2	210	Yes	Routine Flushing
MB864	Meadowbrook	10/16/2024	105	2	210	Yes	Routine Flushing
MB865	Meadowbrook	8/28/2024	342	2	684		
MB866	Meadowbrook	8/28/2024	329	2	658	Yes	
MB866	Meadowbrook	8/28/2024	329	2	658		Routine Flushing
MB870	Meadowbrook	8/27/2024	145	2	290		
MB903	Meadowbrook	10/15/2024	236	2	472		
MB904	Meadowbrook	10/15/2024	246	2	492		
MB905	Meadowbrook	10/15/2024	300	2	600		
MB906	Meadowbrook	10/15/2024	355	2	710		
MB911	Meadowbrook	10/15/2024	144	2	288		
MB912	Meadowbrook	10/15/2024	69	2	138		
MB913	Meadowbrook	10/15/2024	251	2	502		
MB914	Meadowbrook	9/26/2024	256	2	512		
MB914	Meadowbrook	10/15/2024	256	2	512	Yes	Heavy Cleaning Needed
MB915	Meadowbrook	9/26/2024	94	2	188		
MB915	Meadowbrook	10/15/2024	94	2	188	Yes	Heavy Cleaning Needed
MB920	Meadowbrook	9/27/2024	247	4	988		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB921	Meadowbrook	9/27/2024	330	2	660		
MB922	Meadowbrook	9/27/2024	324	2	648		
MB923	Meadowbrook	9/27/2024	290	2	580		
MB930	Meadowbrook	10/15/2024	163	2	326		
MB931	Meadowbrook	10/15/2024	61	2	122		
MB932	Meadowbrook	10/15/2024	94	2	188		
MB933	Meadowbrook	10/15/2024	262	2	524		
MB934	Meadowbrook	10/15/2024	230	2	460		
MB951	Meadowbrook	9/25/2024	335	2	670		Trouble Spot
MB951	Meadowbrook	10/24/2024	335	2	670	Yes	Trouble Spot
MB952	Meadowbrook	9/25/2024	307	2	614		Trouble Spot
MB952	Meadowbrook	9/25/2024	307	2	614	Yes	Trouble Spot
MB953	Meadowbrook	10/24/2024	303	2	606		
MB954	Meadowbrook	9/25/2024	227	2	454		
MB954	Meadowbrook	10/24/2024	227	2	454	Yes	Routine Flushing
MB955	Meadowbrook	9/25/2024	297	2	594		
MB955	Meadowbrook	10/24/2024	297	2	594	Yes	Routine Flushing
MB960	Meadowbrook	9/25/2024	297	2	594		
MB960	Meadowbrook	10/24/2024	297	2	594	Yes	Routine Flushing
MB961	Meadowbrook	9/26/2024	188	2	376		
MB961	Meadowbrook	9/26/2024	188	2	376	Yes	Routine Flushing
MB962	Meadowbrook	9/26/2024	209	2	418		
MB962	Meadowbrook	9/26/2024	209	2	418	Yes	Routine Flushing
MB962	Meadowbrook	10/24/2024	209	2	418	Yes	Routine Flushing
MB963	Meadowbrook	10/24/2024	266	2	532		
MB964	Meadowbrook	9/26/2024	300	2	600		
MB964	Meadowbrook	10/15/2024	300	2	600	Yes	Routine Flushing
MB965	Meadowbrook	9/26/2024	180	1	180		
MB965	Meadowbrook	9/27/2024	180	2	360	Yes	Routine Flushing
MB970	Meadowbrook	10/15/2024	259	2	518		
MB970	Meadowbrook	12/17/2024	259	2	518	Yes	Routine Flushing
MB975	Meadowbrook	9/30/2024	154	2	308		
MB976	Meadowbrook	9/30/2024	223	2	446		
MB977	Meadowbrook	9/30/2024	225	2	450		
MB978	Meadowbrook	9/23/2024	243	2	486		
MB980	Meadowbrook	9/23/2024	207	2	414		
MB981	Meadowbrook	9/23/2024	450	2	900		
MB982	Meadowbrook	9/23/2024	175	2	350		Trouble Spot
MB985	Meadowbrook	9/24/2024	221	2	442		Trouble Spot
MB985	Meadowbrook	10/24/2024	221	2	442	Yes	Trouble Spot
MB986	Meadowbrook	9/20/2024	275	2	550		Trouble Spot
MB986	Meadowbrook	10/24/2024	275	2	550	Yes	Trouble Spot
MB986A	Meadowbrook	4/9/2024	2	1	2		
MB990	Meadowbrook	9/20/2024	246	2	492		Trouble Spot
MB990	Meadowbrook	10/24/2024	246	2	492	Yes	Trouble Spot
MB995	Meadowbrook	9/24/2024	340	2	680		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB995	Meadowbrook	10/24/2024	340	2	680	Yes	Routine Flushing
MB996	Meadowbrook	9/24/2024	351	2	702		Trouble Spot
MB996	Meadowbrook	10/16/2024	351	2	702	Yes	Trouble Spot
MS001	Mill Street	11/15/2024	213	2	426		
MS001	Mill Street	11/15/2024	213	6	1278	Yes	Heavy Cleaning Needed
OC013	Old Capehart	6/10/2024	176	2	352		
OC014	Old Capehart	6/10/2024	158	2	316		
OC015	Old Capehart	6/10/2024	120	2	240		
OC016	Old Capehart	6/10/2024	75	2	150		
OC017	Old Capehart	6/5/2024	176	2	352		
OC018	Old Capehart	6/5/2024	168	2	336		
OC019	Old Capehart	6/5/2024	163	2	326		
OC020	Old Capehart	6/5/2024	176	2	352		
OC101	Old Capehart	6/11/2024	283	2	566		
OC101A	Old Capehart	6/10/2024	26	2	52		
OC102	Old Capehart	6/10/2024	323	2	646		
OC103	Old Capehart	6/10/2024	296	2	592		
OC104	Old Capehart	6/10/2024	300	2	600		
OC110	Old Capehart	6/10/2024	240	2	480		
OC111	Old Capehart	6/10/2024	140	2	280		
OC150	Old Capehart	6/11/2024	73	1	73		
OC150A	Old Capehart	6/11/2024	27	1	27		
OC151	Old Capehart	6/11/2024	424	2	848		
OC300	Old Capehart	6/11/2024	133	2	266		
OC301	Old Capehart	6/11/2024	241	2	482		Trouble Spot
OC302	Old Capehart	6/11/2024	261	2	522		
OC303	Old Capehart	6/11/2024	250	2	500		
OC304	Old Capehart	6/11/2024	249	1	249		
OC305	Old Capehart	6/11/2024	302	2	604		
OC306	Old Capehart	6/11/2024	194	2	388		
OC307	Old Capehart	6/11/2024	308	2	616		
OC350	Old Capehart	6/11/2024	174	2	348		
OC351	Old Capehart	6/11/2024	308	2	616		
OC352	Old Capehart	6/11/2024	293	2	586		
OC360	Old Capehart	6/13/2024	275	2	550		
OC361	Old Capehart	6/13/2024	267	2	534		
OC362	Old Capehart	6/13/2024	236	2	472		
OC363	Old Capehart	6/13/2024	280	2	560		
OC364	Old Capehart	6/11/2024	257	3	771		
OC400	Old Capehart	6/5/2024	218	2	436		
OC401	Old Capehart	6/5/2024	194	2	388		
OC402	Old Capehart	3/11/2024	144	2	288		Trouble Spot
OC403	Old Capehart	6/4/2024	226	2	452		Trouble Spot
OC404	Old Capehart	6/4/2024	161	2	322		
OC405	Old Capehart	6/4/2024	182	2	364		

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
OC406	Old Capehart	6/4/2024	175	2	350		
OC407	Old Capehart	6/4/2024	269	2	538		
OC408	Old Capehart	6/4/2024	255	2	510		
OC413	Old Capehart	6/4/2024	288	2	576		
OC420	Old Capehart	3/11/2024	95	2	190		Trouble Spot
OC421	Old Capehart	3/11/2024	360	2	720		Trouble Spot
OC421	Old Capehart	3/11/2024	360	2	720	Yes	Trouble Spot
OC422	Old Capehart	3/9/2024	332	2	664		Trouble Spot
OC422	Old Capehart	3/11/2024	332	2	664	Yes	Trouble Spot
OC430	Old Capehart	6/4/2024	217	2	434		
OC431	Old Capehart	6/4/2024	118	2	236		
OC440	Old Capehart	6/4/2024	139	2	278		
OC441	Old Capehart	6/4/2024	202	2	404		
OC442	Old Capehart	6/4/2024	274	2	548		
OC443	Old Capehart	6/4/2024	261	2	522		
OC444	Old Capehart	6/4/2024	255	2	510		
OC445	Old Capehart	6/4/2024	269	2	538		
OC450	Old Capehart	6/10/2024	201	2	402		
OC451	Old Capehart	6/10/2024	164	2	328		
OC452	Old Capehart	6/5/2024	165	2	330		Trouble Spot
OC453	Old Capehart	6/5/2024	236	2	472		Trouble Spot
OC455	Old Capehart	6/5/2024	191	2	382		Trouble Spot
OC460	Old Capehart	6/5/2024	137	2	274		Trouble Spot
OC461	Old Capehart	6/5/2024	148	2	296		Trouble Spot
OC462	Old Capehart	6/5/2024	233	2	466		Trouble Spot
OC463	Old Capehart	6/5/2024	210	2	420		Trouble Spot
OC471	Old Capehart	6/4/2024	144	2	288		
OC472	Old Capehart	6/4/2024	301	2	602		
OC473	Old Capehart	6/4/2024	82	2	164		
OC480	Old Capehart	6/4/2024	260	2	520		
OC485	Old Capehart	6/4/2024	200	2	400		
OC490	Old Capehart	6/4/2024	77	2	154		
OC504	Old Capehart	4/12/2024	294	2	588		
OC510	Old Capehart	4/12/2024	198	2	396		
OC511	Old Capehart	4/12/2024	146	2	292		
OC954	Old Capehart	7/25/2024	347	1	347		Trouble Spot
OC954	Old Capehart	11/1/2024	347	2	694	Yes	Trouble Spot
PI011	Penobscot Interceptor	5/2/2024	310	1	310		
PJ016	Penjawoc	10/9/2024	73	12	876		
PJ017	Penjawoc	10/9/2024	236	12	2832		
PJ018	Penjawoc	9/10/2024	423	4	1692		
PJ018	Penjawoc	10/9/2024	424	12	5088	Yes	Heavy Cleaning Needed
PJ019	Penjawoc	9/4/2024	153	4	612		
PJ019	Penjawoc	9/10/2024	153	10	1530	Yes	Heavy Cleaning Needed

## APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2024

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
PJ020	Penjajawoc	9/4/2024	163	4	652		
PJ021	Penjajawoc	9/4/2024	196	4	784		
PJ022	Penjajawoc	9/4/2024	60	4	240		
PJ023	Penjajawoc	9/4/2024	172	4	688		
PJ024	Penjajawoc	9/4/2024	84	4	336		
PJ025	Penjajawoc	9/4/2024	174	4	696		
PJ400	Penjajawoc	9/4/2024	186	6	1116		Trouble Spot
PJ401	Penjajawoc	8/30/2024	93	12	1116		
PJ402	Penjajawoc	8/30/2024	99	12	1188		
PJ403	Penjajawoc	8/30/2024	18	4	72		
SL003	Strickland	7/23/2024	303	2	606		
SL004	Strickland	7/23/2024	355	2	710		
SL005	Strickland	7/23/2024	249	2	498		
SL006	Strickland	7/23/2024	399	2	798		
SL007	Strickland	7/16/2024	398	2	796		
SL008	Strickland	7/16/2024	402	2	804		
SL009	Strickland	7/16/2024	50	2	100		
SL010	Strickland	7/16/2024	395	2	790		
SL011	Strickland	7/12/2024	453	2	906		
SL050	Strickland	7/24/2024	62	2	124		
SL051	Strickland	7/16/2024	305	2	610		
SL052	Strickland	7/16/2024	300	2	600		
SL053	Strickland	7/16/2024	104	2	208		
SL100	Strickland	7/16/2024	141	2	282		
SL101	Strickland	7/12/2024	86	2	172		
SL102	Strickland	7/12/2024	112	2	224		
SL103	Strickland	7/12/2024	66	2	132		
SL110	Strickland	7/12/2024	177	2	354		
WL023	Woodlawn	12/16/2024	304	4	1216		
WL024	Woodlawn	12/16/2024	306	2	612		
WL025	Woodlawn	12/16/2024	288	2	576		
WS100	Westland	2/7/2024	116	2	232		
WS101	Westland	2/7/2024	205	2	410		
WS102	Westland	2/7/2024	291	2	582		
WS103	Westland	2/7/2024	300	2	600		
WS104	Westland	2/2/2024	0	0	0		
WS105	Westland	2/7/2024	301	2	602		
WS106	Westland	2/7/2024	307	2	614		
WS107	Westland	2/7/2024	395	2	790		

<b>Total feet</b>	<b>372,463</b>
<b>Total miles</b>	<b>70.5</b>

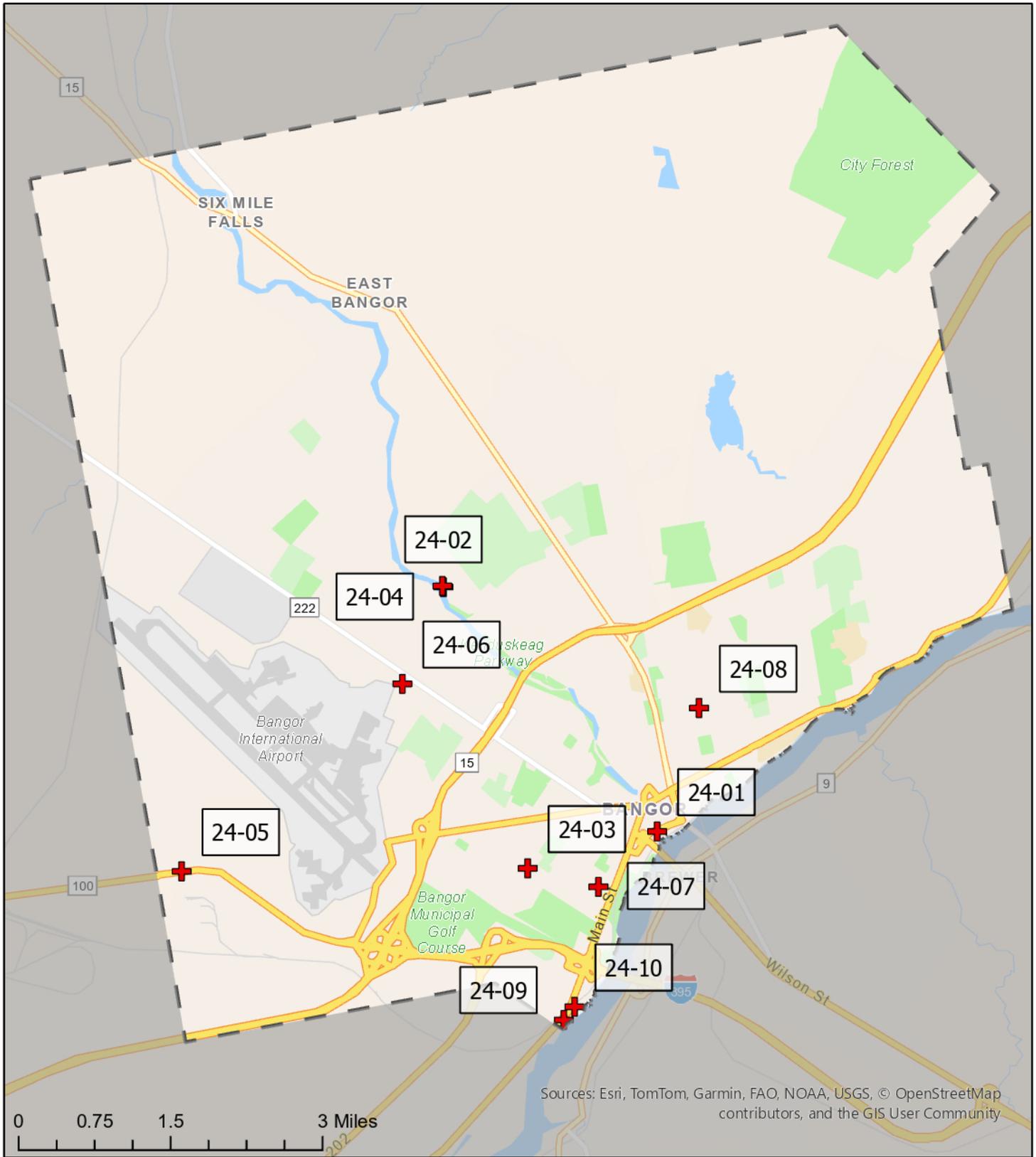
**Appendix E**  
**SSO EVENT Log**

## APPENDIX E: SSO EVENT LOG

City of Bangor, Maine  
Calendar Year 2024

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
24-01	1/10/2024	1/10/2024	Kenduskeag Plaza 78 Exchange St	Ground	Sewer Department/ WWTP	Snow melt combined with 2-3' storm surge during heavy snow/rain event	No	CSO Gates were opened as soon as the river was at a safe level to do so.	<99,970	9/30/2015
24-02	1/11/2024	1/11/2024	Cross Country manhole KI061 between Kenduskeag Stream and 738 Kenduskead Ave	Ground	Sewer Crew walking cross country lines after rain event	Heavy wind, snow, and rain event	No	Continue to inspect cross country lines after rain events and make repairs when necessary. The City is working to reduce overflows through projects included in our LTCP.	Unknown	10/17/2022
24-03	3/11/2024	3/11/2024	303 Lincoln St	Residential Basement	Resident	Collapsed sewer/storm main	Yes	Down stream access added, collapsed main replaced with PVC, homeowner installed back flow preventor in basement.	1,200 Gallons	None
23-04	4/1/2024	4/1/2024	Cross Country manholes KI061 & KI062 between Kenduskeag Stream and 738 Kenduskead Ave	Ground	Sewer Crew walking cross country lines after rain event	2.56" of rain over duration of day long rain event	No	Continue to inspect cross country lines after rain events and make repairs when necessary. The City is working to reduce overflows through projects included in our LTCP.	Unknown	1/11/2024
24-05	4/22/2024	4/22/2024	Hildreth St forcemain 7 Hildreth St	Ground	Sewer Department	Force main had leak in line	No	Temporary repairs made to stop immediate leak. Forcemain is currently under construction for replacement through the City's Fiscal Sustainability Plan.	380 Gallons	1/30/2023
24-06	5/29/2024	6/10/2024	511 Maine Ave	Airport retention pond eventually draining to Birch Stream	Storm Water Manager	Failed sewer main	No	Replaced failed VCP sewer main with PVC. Replaced old brick storm catchbasin with precast.	Unknown	None
24-07	6/17/2024	6/17/2024	50 Walter St	Ground	Public Works	Collapsed sewer/storm main	Yes	Repaired collapsed clay main with PVC. Added downstream access.	Unknown	None
24-08	6/21/2024	6/21/2024	118 Palm St	Residential Basement	Nichols Plumbing to Sewer Department	Sewer main plugged with paper due to lack of flow	Yes	Cleared blockage with jet truck	75 Gallons	None
24-9	8/2/2024	8/2/2024	760 Main St	Penobscot River	WWTP	Operator shut wrong valve on Contact Chamber, causing chamber to over flow	No	Opened correct valve to stop overflow	Unknown	11/24/2021
24-10	12/12/2024	12/12/2024	Manhole HD001 near 760 Main St	Ground	Sewer Department	Unknown cause, potential high flows	No	Opened manhole and added de-foamer, foam immediately disapated	10 Gallons	None

**Appendix F**  
**Location Map of Sanitary Sewer Overflows**



Scale: 1:85,000



# Location of SSO Events 2024

