

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STORMWATER MANAGEMENT PLAN (SMP)

For

The City of Old Town 265 Main Street, Old Town, ME 04468 (207) 827-3965



Prepared By Stillwater Environmental Engineering, Inc.

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1.1 Regulatory Overview

The City of Old Town (City) is subject to the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4s). The most recent permit was issued by the Maine Department of Environmental Protection (MDEP) on October 15, 2020, to be effective for 5 years from July 1, 2022 to June 30, 2027 (see **Attachment E**). The permit authorizes the direct discharge of stormwater from regulated MS4s to waters of the State, other than groundwater, pursuant to Water Pollution Control Law 38 M.R.S.A. \S 413. The City of Old Town submitted a Notice of Intent (NOI) to comply with the terms and conditions of the MS4 General Permit on or before March 31, 2021 (see **Attachment F**).

The General Permit covers operations or activities associated with stormwater runoff within identified "urbanized areas" of the municipality's regulated MS4. An urbanized area is a classification of the U.S. Census Bureau that is based on population density and amount of concentrated development – factors that result in increased stormwater volume and pollutant load to receiving waterbodies in the area.

The U.S. Environmental Protection Agency (USEPA) and MDEP began regulating communities for their stormwater discharges using the urbanized area criteria in 2003. The City of Old Town became regulated in 2003 based on the 2000 census. **Attachment A** shows the urbanized area regulated by the 2022 MS4 General Permit for the City. This map was developed from the inclusive sum of the U.S. Census Bureau census conducted in 2000 and 2010. The 2022 MS4 General Permit does not include any modifications to urbanized area based on data from the 2020 U.S. Census.

The City of Old Town encompasses a total land area of approximately 43.25 square miles, with approximately 23% (\sim 10 square miles) of that total area within the City's urbanized area. According to the 2010 U.S. Census, the population of the City is estimated to be 7,729, with 5,774 residents within the regulated urbanized area.

Each of the four MS4 General Permits (effective 2003, 2008, 2013, and 2022) have required that the regulated MS4s develop, and implement a Stormwater Management Plan (SMP) to coincide with the effective dates of the General Permit. The SMP is designed to reduce or eliminate polluted stormwater runoff to the maximum extent practicable (MEP) from its regulated MS4. The elements of the SMP are described in **Section 1.3**.

1.2 Cooperation Between Regulated Communities

There are 30 municipalities, two transportation agencies, and eight state/federal agencies in the State of Maine subject to MS4 General Permit regulation. Historically, there is a strong regional and/or state-wide collaborative effort among regulated entities to develop and carry out required permit activities. Most regulated MS4s (municipal, transportation, and state/federal) in the State are part of an established regional stormwater working group consisting of MS4 communities and supporting local organizations. These working groups include:

- Bangor Area Stormwater Working Group (BASWG);
- Androscoggin Valley (Lewiston-Auburn) Stormwater Working Group (AVSWG);
- Interlocal (Greater Portland) Stormwater Working Group (ISWG); and
- Southern Maine (York County) Stormwater Working Group (SMSWG).



The City of Old Town is a member of BASWG, a coalition of seven MS4 municipalities in the greater Bangor area (Bangor, Brewer, Hampden, Milford, Old Town, Orono, and Veazie) as well as the University of Maine, Eastern Maine Community College, University of Maine at Augusta - Bangor Campus, the Maine Air National Guard, and the Dorothea Dix Psychiatric Facility, which are also regulated as MS4s under a separate permit.

BASWG participants, including the City of Old Town, have contributed to a regional BASWG SMP that addresses all collaborative practices implemented in an effort to comply with the 2022 MS4 General Permit. The City will continue to participate in and support implementation of regional practices outlined in the BASWG SMP (submitted to MDEP under separate cover). In addition, the City hires a third party-consultant to implement some requirements and implements other requirements using municipal staff. This plan describes which elements will be completed individually, regionally, or as part of a statewide effort.

1.3 Stormwater Management Plan

As mentioned in the Regulatory Overview, operators of a regulated small MS4 are required to design a stormwater management plan (SMP) that will effectively:

- Reduce the discharge of pollutants to the "maximum extent practicable" (MEP);
- Protect water quality; and
- Satisfy the appropriate water quality requirements of the USEPA's Clean Water Act.

The SMP is a tool describing how a regulated community plans to manage stormwater in a way that will limit pollutant loads and protect the quality of receiving waters. The plan is *not enforceable*, yet is *adaptive*, allowing the permittee to adjust approaches and practices throughout the permit cycle if needed, based on regular evaluation of their effectiveness, changing conditions, specific local concerns, and/or other factors. Some SMP modifications require MDEP review and approval and public notice.

Specifications of the MS4 General Permit are primarily based on qualitative *minimum control measures* (MCMs) of stormwater management, less so on quantitative requirements (e.g. numeric water quality criteria). This SMP describes how the City will implement Best Management Practices (BMPs) to meet the six MCMs that are defined in Part IV(C) of the 2022 MS4 General Permit:

- I Public Education and Outreach
- II Public Involvement and Participation
- III Illicit Discharge Detection and Elimination Program
- IV Construction Site Stormwater Runoff Control
- V Post-Construction Stormwater Management in New Development and Redevelopment
- VI Pollution Prevention/Good Housekeeping for Municipal Operations

The 2022 MS4 General Permit requires that for each MCM, the City must:

- a) Define appropriate BMPs;
- b) Designate a person(s) responsible for implementing each BMP;
- c) Define a date or timeline with milestones for implementation of each BMP; and
- d) Define measurable goals for each BMP.

J/N 13006- 2022 Old Town MS4 SMP



This SMP is developed in accordance with the terms and conditions of the MS4 General Permit reissued by the MDEP on October 15, 2020. Many of the BMPs in this plan continue or expand upon BMPs developed under prior MS4 General Permits. Specific requirements for addressing MCMs have changed though the six MCMs have remained the same for all permit cycles.

Section 1.3.1 describes the City's water quality status, and the watershed(s) that are considered to be priorities when considering stormwater management practices to prevent or alleviate impairment of waters. **Section 1.4**, **Section 1.5**, and **Section 1.6** describe how permit coverage is obtained, how the SMP is modified (when needed), when public notice is required, and annual reporting requirements.

The MDEP will review this SMP and determine if the City is controlling pollutants to the *maximum extent practicable* (MEP). MEP is the USEPA's statutory standard for pollutant reduction requirements of permitted MS4s, and the term is flexible in consideration that pollutant control strategies will vary for each small MS4 based on unique local conditions and factors such as cost, existing technology, and logistics of BMPs. The City is allowed to consider these concepts as they select BMPs to meet permit requirements but the MDEP decides if the City is meeting the MEP standard. *Practices that were considered MEP under the MS4 2013 permit may no longer meet that standard and must be improved or expanded based on changed conditions*.

1.3.1 City of Old Town Water Quality Status

The following named waterbodies receive discharges from the City's MS4:

- The Penobscot River (Impaired State-wide bacteria TMDL); and
- The Stillwater River (No impairments).

Neither of these waterbodies have impairment classifications (UIS/TMDLs other than Statewide) within the MS4 regulated area requiring additional actions by the City per the 2022 MS4 General Permit.

However, the City recognizes and prioritizes stormwater management practices that minimize pollutant loading to its most vulnerable waters. During previous permit cycles, the City chose a portion of the Penobscot River watershed as its priority watershed for SMP implementation. In particular, the portion of the City's stormwater management system draining to the Penobscot River between Stillwater Avenue and Highland Avenue, which includes the majority of the City's high density residential and commercial development within the urbanized area. The 2022 MS4 General Permit does not contain any specific requirements related to priority watersheds. However, it does require an MS4 to have a procedure in place to prioritize watersheds when addressing illicit discharges. The City of Old Town uses this prioritization to identify where illicit discharge inspections are conducted first. The City may also use this prioritization for illicit discharge investigations in the event there are insufficient resources to address all potential illicit discharges simultaneously. The City utilized this approach when developing and implementing their illicit discharge detection and elimination (IDDE) plan, which is described in **Section 3.3**.

Penobscot River Water Quality Status

The Penobscot River encompasses the municipality's eastern boundary and receives the majority of discharges from the MS4 system. This waterbody was included in the state-wide bacteria TMDL (approved in 2009) therefore, no additional actions other than the implementation of the City's IDDE Plan (**Attachment B**) are required, as per correspondence with MDEP staff. The Penobscot River is also classified by EPA as a (legacy) category 5-D river for polychlorinated biphenyls (PCBs), and is classified as a 4-B river for dioxin, dissolved oxygen (DO), and nutrients.



SEE 1.4 Obtaining Coverage to Discharge

As required, a Notice of Intent (NOI) to comply with the 2022 MS4 General Permit was submitted to the MDEP with this SMP. A copy of the City's NOI and required public notice documentation is provided in **At-tachment F**.

Following review of the SMP and NOI, the MDEP may issue a permittee specific DEP Order, establishing terms and conditions that are enforceable in addition to the language in the 2022 MS4 General Permit, which is also enforceable.

A 30-day Public Notice is required for both the NOI and the permittee specific DEP Order (as applicable).

Once the MDEP issues authorization to discharge, the permittee has 60 days to update the SMP to reflect any new or changed requirements based on the DEP Order (as applicable) and any public comments. The new permit conditions will take effect on July 1st, 2022.

1.5 SMP Modifications

The SMP must be amended during the permit term (2022 - 2027) if the MDEP or the regulated MS4s determine that:

- a) The actions required by the BMPs fail to control pollutants to meet the terms and conditions of the MS4 General Permit and the permittee specific DEP Order (as applicable);
- b) The BMPs do not prevent the potential for a significant contribution of pollutants to Waters of the State other than groundwater; or
- c) New information results in a shift in the SMP's priorities.

Even though this SMP is not an enforceable document, if any modifications are made, the SMP will be made available for 30-day public comment by posting the changes on the City's website.

If the changes being made <u>are not</u> explicitly required by the 2022 MS4 General Permit or the permittee specific DEP Order (as applicable), the opportunity for public comment will be made on the City's website annually and the MDEP will be notified of the changes in the annual report following the permit year the changes were made.

If the changes being made <u>are</u> explicitly required by the 2022 MS4 General Permit or the permittee specific DEP order, the applicable processes will be followed:

- Modifications initiated by the City: The City will notify the MDEP prior to changing any elements by filing a permit application with the MDEP that includes a justification to formally modify the requirement; or
- *Modifications initiated by the MDEP*: MDEP will notify the City, and the City must respond within 30 days with a written explanation of intended SMP modifications. The City must then modify the SMP within 90 calendar days of the City's written response, or within 120 calendar days of the MDEP notice (whichever is less). Any such modification must be submitted to the MDEP for final review.



SEE 1.6 Annual Compliance Report and Record Keeping

By September 15th of each year, the City will electronically submit an Annual Compliance Report for the MDEP's review using the standardized form provided by the MDEP. The Annual Compliance Report must be sent to:

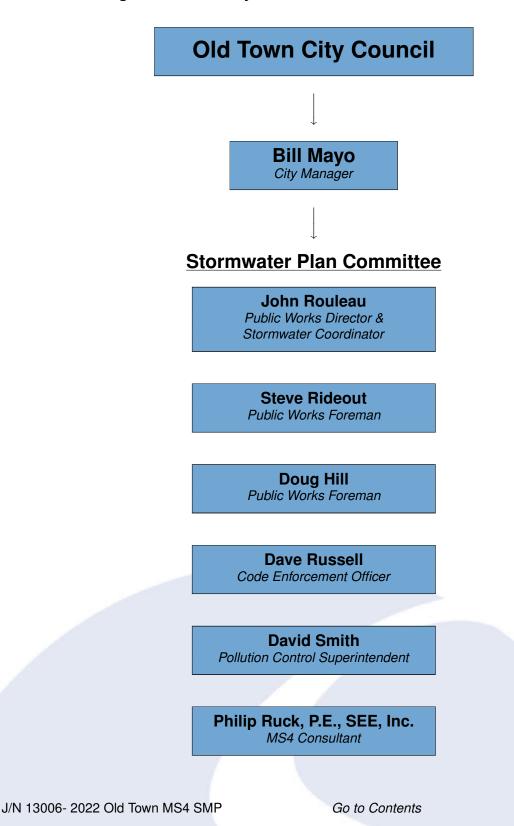
Rhonda Poirier Municipal/Industrial Stormwater Coordinator Maine Department of Environmental Protection 17 State House Station Augusta, ME 04333-0017 rhonda.poirier@maine.gov

The MDEP will review the annual report and provide comments to the City. Changes to the report based on the MDEP's review comment(s) must be submitted to the Department within 60 days of the receipt of the comment(s).

As a regulated MS4, the City must keep records required by the 2022 MS4 General Permit and permit modification for at least three (3) years following its expiration or longer if requested by the MDEP Commissioner. The City must make records (including this SMP) available to the public at reasonable times during regular business hours.



2.1 Plan Management Hierarchy



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SEE 2.2 Additional Environmental Plans

The City implements the following existing environmental plans:

- Operations and Maintenance (O&M) Plan for Municipal Operations (available upon request);
- Illicit Discharge Detection and Elimination (IDDE) Plan (Attachment B);
- Level of Service (LOS) Plan for Snow and Ice Removal (available upon request);
- No Exposure Certification (NEC) for the Water Pollution Control Facility (available upon request); and
- Waste Discharge License for City Swimming Pool (available upon request).



3 Minimum Control Measures

3.1 MCM I - Education and Outreach Program

MS4 permitees must fully comply with MCM I by developing an Education/Outreach Program that will educate the public and smaller focus groups about polluted runoff and how to reduce pollution. The goal is to change the behavior of target audiences that will help to minimize stormwater impacts.

The City selected Best Management Practices (BMPs) for the Education/Outreach MCM of this SMP. The following BMPs are to be implemented through participation in BASWG and/or through the City's own education and outreach efforts. The outreach to raise awareness campaign targeted at the general public and the outreach to change behavior change campaign to two audiences will be conducted through participation in BASWG. Please see the BASWG SMP under separate cover for specifics about these campaigns.

3.1.1 BMP1A - Municipal Outreach to Raise Awareness

The 2022 General Permit requires each MS4 permittee to implement an outreach campaign to increase stormwater pollution awareness and deliver information to at least one of the following audiences: municipal, commercial, development/construction, or institutions. The outreach campaign must be delivered using at least three (3) outreach tools per year.

Description:

For the previous MS4 General Permit, the City developed a Municipal Permit Awareness Plan to educate municipal officials about the specifics of the City's SMP and also to focus on the impacts of stormwater runoff pollution. The existing plan was used to develop the Municipal Outreach program detailed below.

Measurable Goals:

During each permit year, the City will improve municipal staff and officials' awareness and knowledge of stormwater management and pollution prevention practices with a minimum of a 10% increase in awareness (determined through municipal surveys) by the end of PY5. The City chose a 10% increase due to the high baseline level of staff awareness from the previous permit cycle. To improve municipal officials' awareness, the City will use of a minimum of three of the implementation tools detailed below. A summary of the implementation of this BMP will be included in the MS4 Annual Report each year.

Target Audience: Municipal staff and officials.

Overarching Message: "The City has a stormwater discharge permit that requires municipal employees and officials to minimize stormwater pollutants entering into our local streams, to keep them clean and healthy for all City residents." This message will be presented with variations based on target audience interests and outreach tools used.

Implementation Tools:

To raise awareness of municipal staff and officials, the City will implement or support implementation of at least three (3) of the following outreach tools each year. If an implementation tool is found to be ineffective, based on process indicators (e.g. attendance), it will be modified accordingly.

- 1. Quarterly Stormwater Team meetings;
- 2. Annual email to municipal staff/officials summarizing the City's involvement in BASWG's annual public event;



- 3. Stormwater 101 handout for at least one of the following sub-audiences:
 - City Council;
 - Planning Board;
 - Public Works;
 - Public Safety.
- 4. Stormwater 101 training for at least one of the following sub-audiences:
 - City Council;
 - Planning Board;
 - Public Works;
 - Public Safety.
- 5. Posting MS4 Program updates on municipal staff bulletin boards.

Responsible Party: Stormwater Coordinator

3.1.2 BMP1B - Evaluate Campaign Effectiveness

The 2022 General Permit requires each MS4 permittee to identify methods it will use to evaluate the effectiveness of each awareness and behavior change campaign. A relevant baseline evaluation (e.g. from previous permit cycle) must be conducted prior to each campaign, followed by an evaluation in year five of this permit to assess the overall effectiveness of the outreach program. Any message or delivery mechanism found ineffective or of unsatisfactory efficacy, must be modified accordingly.

Description:

The City will collect Education/Outreach program data to show evidence that progress toward the defined awareness and behavior goals of the program is achieved. The City will evaluate BMP 1A, as described below. All other outreach and behavior change campaigns will be evaluated by BASWG. See the BASWG SMP under separate cover for more information.

Measurable Goals:

- The baseline of the municipal awareness campaign will be evaluated in PY1 through a survey provided to municipal staff and officials to gauge their current understanding of MS4 Program related topics; and
- 2. Each municipal training session will include a written evaluation prior to and immediately following the training session. These evaluations will include applicable questions to gauge the effectiveness of each training session.

Implementation Tools:

At the beginning of and throughout the 2022 MS4 permit cycle, the City will collect E & O program data and periodically assess the effectiveness of the awareness campaign (BMP1A). The following tools will be implemented for evaluation:

- 1. In PY1, conduct a baseline evaluation of outreach effectiveness from the previous MS4 permit cycle;
- 2. Gather data and feedback from training participants via pre/post-training evaluations; and



3. In PY5 the City will evaluate the effectiveness of the municipal outreach campaign by summarizing the evaluations referenced above.

Responsible Party: Stormwater Coordinator

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SEE 3.2 MCM II - Public Involvement and Participation

MS4 permittees must fully comply with MCM II by involving the public in the planning and implementation process of improving water quality and reducing stormwater quantity via their stormwater program. BMPs for this MCM must support active involvement of the public and stakeholders.

The City will fulfill the requirements for Public Involvement and Participation through relevant BASWG practices and by implementing additional BMPs.

3.2.1 BMP2A - Public Notice of Stakeholder Involvement

The MS4 permittee must comply with applicable state and local public notice requirements using effective mechanisms for reaching the public and comply with the Maine Freedom of Access Act when stakeholders are involved with implementation of the permit. The permittee must document the stakeholder meetings and attendance in the annual report as a way of measuring this goal.

Description:

The City will follow state and local Public Notice requirements when involving stakeholders in the implementation of the 2022 MS4 General Permit.

Measurable Goal:

Public notification and public access to documentation of all City meetings with MS4 permit stakeholders throughout the permit cycle, will be made available via the municipal website.

Implementation Tools:

The City will comply with public notice and access requirements by:

- 1. Providing public notice of BASWG meetings, and posting BASWG agendas and minutes through a link to the BASWG website via the City website;
- 2. Providing public notice of City Council meetings, referring to stormwater issues on specific agendas, and posting Council meeting agendas and minutes on the City website; and
- 3. Posting the SMP and any modifications on the City website.

Responsible Party: Stormwater Coordinator

3.2.2 BMP2B - Public Events

The permittee or regional stormwater group of which the permittee is a member must annually host/conduct or participate in a public event that includes a pollution prevention and/or water quality theme.

Description:

As a member of the BASWG, the City participates in public events. Each year the BASWG coordinates multiple street and stream cleanup and stormdrain stenciling events throughout the Bangor region. The BASWG also coordinates an educational and interactive stormwater booth at the annual Maine Science Festival in Bangor, or a similar event each year. These events increase public involvement and participation in reducing stormwater pollution.



SEE Measurable Goal:

Each permit year the City will participate in at least one public event coordinated by the BASWG with a pollution prevention and/or water quality theme.

Implementation Tools:

To meet the goals and the MS4 permit requirements for public events, the City will participate in BASWG events each permit year. Please see the BASWG SMP, under separate cover, for more detailed information concerning these events.

Responsible Party: Stormwater Coordinator



SEE 3.3 MCM III - Illicit Discharge Detection and Elimination

Each MS4 permittee must implement and enforce a program to detect and eliminate illicit discharges and unauthorized non-stormwater discharges. The program must address the following four components: 1) Procedures for prioritizing watersheds, 2) Procedures for tracing the source of an illicit discharge, 3) Procedures for removing the source of the discharges, and 4) Procedures for program evaluation and assessment.

To meet MS4 General Permit requirements for this MCM, the City will continue to implement its Illicit Discharge Detection and Elimination (IDDE) program, which includes:

- A Watershed-based map of the City's stormwater management system;
- A written IDDE Plan which includes;
 - Inspections of outfalls owned/operated by the City (and monitoring of outfalls which flow during dry weather);
 - Investigations of potential illicit discharges;
 - Enforcement of the Non-Stormwater Discharge Ordinance; and
 - A Quality Assurance Project Plan (QAPP).
- Development of a prioritized list of outfalls which have the potential to cause illicit discharges during wet weather.

The following BMPs will be implemented to meet this MCM.

3.3.1 BMP3A - Non-stormwater Discharge Ordinance

The permittee must continue to implement a non-stormwater discharge ordinance that prohibits nonstormwater discharges and provides for the implementation of appropriate enforcement procedures and actions.

Description:

The City approved its Non-Stormwater Discharge Ordinance, which is included as Chapter 16, Article VIII of the City's Code of Ordinances on February 7th, 2005. The ordinance has been implemented since approval and is enforced by the City Code Enforcement Officer.

Measurable Goals:

- 1. The City will continue to implement and enforce its non-stormwater discharge ordinance throughout the 2022 MS4 permit cycle; and
- 2. Any violations of the non-stormwater discharge ordinance and related enforcement actions during the permit cycle will be documented and included in MS4 Annual Reports, as necessary.

Implementation:

The City will continue to implement and enforce its non-stormwater discharge ordinance including potential sanitary sewer overflows (SSOs) to the MS4 within the City's regulated area.

Responsible Party: Stormwater Coordinator



SEE 3.3.2 BMP3B - Illicit Discharge Detection and Elimination (IDDE) Plan

The IDDE program must include a written IDDE Plan to address any discharge that is not uncontaminated groundwater, water from a natural resource, or an allowable non-stormwater discharge. The plan must address dumping that results in illicit discharges to the MS4. The IDDE plan must set forth all written procedures developed in accordance with the requirements listed in the General Permit.

Description:

The City developed an IDDE Plan as part of the 2013 MS4 General Permit, and has updated the IDDE Plan (see **Attachment B**) to meet the requirements of the 2022 MS4 General Permit.

Measurable Goal:

As part of its IDDE program, the City will review its IDDE Plan each permit year and revise the plan, as necessary.

Implementation:

The City will continue to review their IDDE Plan annually and revise, as necessary.

Responsible Party: Stormwater Coordinator

3.3.3 BMP3C - Watershed Based Storm Sewer System Infrastructure Map

Permittees must maintain a map(s) of their municipally-owned or operated storm sewer system. The map(s) must show the location of all stormwater catch basins, connecting surface and subsurface infrastructure, depict the direction of in-flow and out-flow pipes, and the locations of all discharges from all stormwater outfalls operated by the regulated small MS4 to receiving waters or to an interconnected MS4 as well as the name of the receiving water for each outfall. Each catch basin must be uniquely identified to facilitate control of potential illicit discharges and proper operation and maintenance of these structures. Permittees must continue to keep their map(s) current and ensure that maps are reviewed for any updates at least annually. Permittees may choose to utilize paper or electronic maps for their storm sewer system.

Description:

The City developed and refined a watershed based storm sewer system infrastructure map during previous MS4 permit cycles. The City utilizes a Geographic Information System (GIS) based mapping system to manage all MS4 related storm sewer system components.

Measurable Goals:

The City will annually review its storm sewer infrastructure maps and revise, as necessary. The review will encompass all existing storm sewer system infrastructure, including but not limited to:

- The location of all stormwater catch basins;
- Connecting surface and subsurface infrastructure depicting the direction of in-flow and out-flow pipes; and
- The locations and receiving waters for all municipal stormwater outfalls within the regulated area.

Implementation:

The City will continue to refine their City infrastructure mapping system, as necessary, during each year of the current MS4 permit cycle to address potential changes to their stormwater management system. The



City will rely on the annual storm sewer system infrastructure inspection program described in **BMPs 3D** and **6E** below to maintain awareness of system changes and necessary mapping updates.

Responsible Party: Stormwater Coordinator

3.3.4 BMP3D - Dry Weather Outfall Inspection

Permittees must implement a dry weather outfall inspection program that includes all elements outlined in Part IV(C)(3)(e)(i - vii) of the General Permit.

Description:

The City performs annual dry weather inspections of all identified stormwater outfalls in the urbanized area, if possible, and given budgetary constraints. These inspections are prioritized for areas identified as higher priority for illicit discharges in the municipality's IDDE Plan, as well as outfalls located in the City's priority watershed. The inspection program is designed to identify potential illicit discharges within the City's stormwater management system, and is a critical component for minimizing stormwater pollution to receiving waterbodies.

Measurable Goals:

- 1. Annually inspect at least 20% of outfalls within the City's regulated area, inspecting 100% of outfalls located within the City's regulated area by the end of PY5 (minimum); and
- 2. Annually inspect more than 20% of outfalls in priority areas identified in the City's IDDE Plan, priority watershed, and throughout the regulated area (above and beyond).

Implementation:

The City will continue to annually perform its existing dry weather outfall inspection program, prioritizing inspection of outfalls discharging from the City's priority watershed. Stormwater Team members involved in the inspection program will be trained as necessary on how to conduct and record dry weather inspections. See the City's IDDE Plan found in **Attachment B** for a paper example of the electronic form used for these inspections. Inspection results will be documented in a database management system or other record keeping system for compliance purposes. The City will rely on available resources specifically addressing illicit discharge detection and elimination, including, but not limited to the City's IDDE Plan.

Responsible Party: Stormwater Coordinator



SEE 3.3.5 BMP3E - Wet Weather Assessment for Potential Illicit Discharges

Prior to the expiration date of the 2022 MS4 General Permit, permittees must perform a wet weather assessment for the potential for illicit discharges during wet weather events. The assessment will vary by permittee and utilize data from existing studies including those listed in Part IV(C)(3)(f) of the General Permit. The outcome of the assessment will be a list of outfalls identified for wet weather monitoring and testing, if applicable, by the permittee in the next permit cycle and the rationale for including these outfalls. On or before the expiration date of this General Permit, the permittee must identify these wet weather outfalls in its written IDDE plan, identify specific parameters for wet weather monitoring based on the EPA New England bacterial source tracking protocol or other acceptable protocols or methodologies, and specify the timing and frequency of wet weather monitoring to be completed during the term of the next permit cycle. Should the permittee complete this assessment prior to the expiration date of the GP and permittee specific DEP Order (as applicable), the permittee must implement wet weather monitoring immediately.

Description:

The Town will conduct a wet weather assessment in accordance with the 2022 MS4 General Permit Part IV(C)(3)(f), and will incorporate the wet weather assessment into their IDDE Plan by the end of PY5 (6/30/2027).

Measurable Goals:

The City's wet weather assessment will identify all outfalls in the regulated area that have the potential for illicit discharges during wet weather events, identify targeted wet weather outfalls for monitoring during the next permit cycle, and incorporate the wet weather assessment into the City IDDE Plan by the end of PY5.

Implementation:

The City will conduct a comprehensive wet weather outfall assessment (identifying outfalls/parameters for future wet weather monitoring) over the course of the 2022 MS4 permit cycle.

Responsible Party: Stormwater Coordinator

3.3.6 BMP3F - Identify Allowable Non-stormwater Discharges that Contribute Pollutants

The permittee must include if it has identified any allowable non-stormwater discharges that are significant contributors of pollutants to the MS4. The non-stormwater discharges authorized by the General Permit are listed in Part IV(C)(3)(h) of the permit. If sources are identified, then the permittee must implement measures and/or cooperate with responsible dischargers to control these sources so they are no longer significant contributors of pollutants.

Description:

The City has prioritized the following municipal generated allowable non-stormwater discharges to its MS4:

 Hydrant flushing runoff: The City relies on Old Town Water District (OTWD) personnel for the flushing of all City owned fire hydrants located in the municipality. The City's Stormwater Management Team, in coordination with Water District personnel, developed and implemented a standard operating procedure (SOP) for the flushing of all municipally owned hydrants within the regulated urbanized area. This SOP, which is included in the City's IDDE Plan found in **Attachment B**, ensures that discharges from the City's MS4 to receiving waterbodies as a result of hydrant flushing activities are not significant contributors of pollutants ; and



2. Municipal Swimming Pool discharge: The MDEP approved a Waste Discharge License (WDL) for the City to intermittently discharge 3,500 gallons of swimming pool filter backwash waters to the Penobscot River. The WDL is subject to several conditions including effluent limitations, sampling/monitoring, and reporting.

Measurable Goals:

The City will meet the following goals to control pollutant contributions from the identified allowable nonstormwater discharges:

- 1. Annual review of City hydrant map, including where discharges drain to the MS4 and receiving waters;
- 2. Request an annual water quality report from the OTWD concerning hydrant flushing activities; and
- 3. Address any other allowable non-stormwater discharges (see General Permit Part IV(C)(3)(h)) that are identified as significant contributors of pollutants to the MS4.

Implementation:

The City will implement the following measures to control pollutant contributions from the City's allowable non-stormwater discharges:

- 1. The City will work with OTWD to annually review and update the City infrastructure map to maintain location points of all hydrants;
- The City will request an annual water quality report documenting all best management practices implemented for hydrant flushing activities as well as the OTWD's testing results of the total residual chlorine for these discharges;
- 3. During each permit year, the City will include a summary of all hydrant flushing activities conducted within the regulated area in their MS4 Annual Report; and
- 4. As a condition of the City's Pool WDL, the City prepares and submits a quarterly Discharge Monitoring Report to MDEP.

Responsible Party: Stormwater Coordinator



SEE 3.4 MCM IV - Construction Site Stormwater Runoff Control

Each permittee must implement and enforce a program to minimize or eliminate pollutants in any stormwater runoff from construction activities that disturb one acre or more of land within the urbanized area. Reduction of stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.

The City of Old Town selected the following Best Management Practices (BMPs) to meet requirements of MCM IV, ensuring that construction on both public and private property does not impact water resources.

3.4.1 BMP4A - Erosion and Sediment Control Regulatory Mechanism

The General Permit requires that the MS4 permittee have an ordinance or other regulatory mechanism in place that requires the use of erosion and sediment control BMPs at construction sites consistent with the minimum standards outlined in Appendix C of the 2022 MS4 General Permit. Permittees who have an existing ordinance must evaluate and update it as needed within one (1) year of the effective date of this GP. Permittees without an existing ordinance must develop an ordinance within one (1) year of the effective date of this GP and have an approved ordinance in place with the necessary enforcement authority within two (2) years of the effective date of this General Permit.

Description:

The City of Old Town will continue to enforce an existing program to reduce pollutants in any stormwater runoff to the MS4 from construction activities resulting in a land disturbance of greater than or equal to one acre within the City's urbanized area. The City relies on Chapter 500, which applies to any project that disturbs one acre or more of land area and requires a stormwater permit, issued by MDEP, pursuant to the Stormwater Management Law. Chapter 500 Appendix C describes housekeeping performance standards, including construction site waste control, for permitted construction projects.

Measurable Goals:

In PY1, the City will evaluate and update its existing regulatory mechanism, as necessary, to include references to the requirements found in Attachment C of the MS4 General Permit. These requirements include the provisions detailed in the MDEP Chapter 500 Appendix A - Erosion and Sediment Control, Appendix B - Inspections and Maintenance, and Appendix C - Housekeeping. If updates to the City's existing ordinance are required, they will be completed by July 1, 2023.

Implementation:

The City will rely on the MDEP's administration and enforcement of Chapter 500 for all projects resulting in a land disturbance of greater than or equal to one acre in the City. The City may opt to implement and enforce their existing construction site stormwater runoff control program within the municipal boundary and not just the urbanized area.

Responsible Party: Code Enforcement Officer



SEE 3.4.2 BMP4B - Procedures for Site Plan Review

The MS4 permittee must develop and implement procedures for site plan review that incorporate consideration of potential water quality impacts, erosion control, waste storage, and other elements of this MCM, the ability for the public to comment on such reviews at publicly-noticed meetings, and procedures to consider information submitted by the public.

Description:

The City of Old Town has existing Site Plan and Subdivision Review procedures applicable to projects that disturb one or more acres of land within the urbanized area. These procedures include the provisions detailed in the 2022 MS4 General Permit (consideration of potential water quality impacts, erosion control, waste storage, the ability for the public to comment at publicly noticed meetings, as well as procedures to consider information submitted by the public). The City Planning Board is authorized to review and act on all site plans for development requiring site plan review. All City Planning Board meetings are open to public attendance and public comment.

Measurable Goals:

The City will meet the following goals for implementing Site Plan Review procedures to address MS4 permit requirements:

- 1. During PY1, the City will evaluate their existing Site Plan Review Ordinance for compliance with the 2022 MS4 General Permit, completing any required updates by June 30, 2023;
- 2. Notification for City residents of all Planning Board meetings; and
- 3. Consideration of all public input related to site plan reviews and actions.

Implementation:

The City will continue implementation and enforcement of its Site Plan Review Ordinance, specifically:

- 1. Throughout the 2022 permit cycle, the City will review and update its Site Plan Review Ordinance as necessary to incorporate consideration of stormwater runoff control at applicable construction sites;
- 2. Continue to notify and invite the public to City Planning Board meetings; and
- 3. Solicit public comment on site plan reviews applicable to MS4 regulation.

Responsible Party: Code Enforcement Officer

3.4.3 BMP4C - Procedures for Notification

The permittee's construction site runoff program must include procedures for notifying construction site developers and operators of the requirements for registration under the Maine Construction General Permit and Chapter 500, Stormwater Management.

Description:

As required by the MS4 permit, the City will notify construction site developers and operators of the requirements for registration under the Maine Construction General Permit or Chapter 500. This notification applies to construction activity in the City disturbing one or more acres.



Measurable Goals:

During each permit year, the City will rely on development and building permit applications, which include notification of requirement for registration under the MCGP or Chapter 500 requirements. During each permit year, the City will also provide a brief summary of all projects meeting the requirements for notification in the MS4 Annual Report submitted to MDEP.

Implementation:

Construction site developers and operators will be made aware of this requirement through development and building permit applications for applicable projects.

Responsible Party: Code Enforcement Officer

3.4.4 BMP4D - Construction Site Inspections and Documentation

The permittee must document construction activity that disturbs one or more acres within the urbanized area. Written procedures for site inspection and enforcement authority must be documented. Construction site inspections must be completed following minimum requirements outlined in Part IV(4)(a)(v)(b) of the General Permit.

Description:

To maintain the effectiveness of construction site stormwater control best management practices (BMPs), regular inspection of control measures is essential. The City will continue to inspect applicable construction projects for erosion and sediment control (E&SC) and good housekeeping/pollution prevention, as required by the MS4 General Permit. The City will also develop a construction site inspection plan, detailing inspection procedures and follow-up actions for applicable construction sites within the regulated area.

Measurable Goals:

The City will meet the following goals for construction site inspections and documentation:

- 1. By the General Permit effective date (July 1st, 2022), develop written procedures for site inspection and enforcement of E&SC and good housekeeping/pollution prevention measures;
- Inspect each applicable construction site at least three times during the active earth-moving phase of the operation (see Attachment C for a paper example of the electronic form used for these inspections);
- 3. Inspect each applicable construction site annually until the operation reaches substantial completion;
- 4. Inspect each applicable construction site at project completion to ensure that the site reached permanent stabilization and all temporary erosion and sediment controls have been removed;
- 5. Document all construction inspections, enforcement action(s), and corrective actions taken; and
- 6. Summarize the inspection program results in the MS4 Annual Report submitted to MDEP each permit year.

Implementation:

Qualified City personnel will perform, or contract to perform, applicable construction site inspections on a frequency specified in the written inspection procedures reference above. For sites not in compliance, the inspector(s) will provide site operators with guidance on how to come into compliance. Sites which are not brought into compliance within a reasonable period after receiving guidance from the inspector(s) or



SEE after other measures are taken by the MS4, will be reported to the MDEP for non-compliance with the MS4 Permit.

Responsible Party: Code Enforcement Officer



3.5 MCM V - Post-Construction Runoff Control for New Development and Redevelopment

Each permittee must implement and enforce a program to address post-construction stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the MS4.

The City selected the following Best Management Practices (BMPs) for the Post-Construction Stormwater Management MCM of this SMP.

3.5.1 BMP5A - Promote Low Impact Development

The permittee must promote strategies which include a combination of structural and/or nonstructural BMPs appropriate to prevent or minimize water quality impacts.

Description:

Developers and/or construction site operators are notified of low impact development (LID) strategies through municipal Site Plan Review applications, which refer applicants to the MDEP's Chapter 500 requirements regarding LID.

Measurable Goals:

The City will promote LID strategies for all applicable site development projects within the urbanized area.

Implementation:

The City will promote LID as part of its Site Plan Review procedures, relying on Chapter 500 Stormwater requirements for all applicable projects.

Responsible Party: Code Enforcement Officer

3.5.2 BMP5B - Post-Construction Discharge Ordinance

Each MS4 permittee must have and implement a post-construction discharge ordinance, or other regulatory mechanism. Per the ordinance, applicable BMPs must be inspected annually to document their proper function and any completed maintenance. This ordinance must also include provisions for the timely correction of any identified deficiencies.

Description:

The City will continue to rely on their existing post-construction stormwater ordinance developed during a previous permit cycle and enacted on July 1, 2009.

Measurable Goals:

- 1. The City's Post-Construction Stormwater Discharge Ordinance will be reviewed and updated to meet curent MS4 General Permit requirements by the end of PY1 (July 1st, 2023).
- During each permit year, the City will ensure applicable post-construction stormwater management BMPs (installed after July 1, 2009) discharging to its regulated MS4 are functioning properly, as required by the General Permit. This includes those that are either privately or municipally owned and operated sites.



3. A summary of the findings of all post-construction inspections and maintenance completed by the City or applicable property owners for MS4 permit compliance will be provided in the MS4 Annual Report submitted to MDEP each permit year.

Implementation:

- 1. The City Post-Construction Stormwater Discharge Ordinance will be updated to contain the following specific requirements:
 - The owner or operator of a post-construction BMP must provide the City with an annual report, completed by a qualified inspector documenting that all on-site BMPs are adequately maintained and functioning as intended; and
 - If a post-construction BMP requires maintenance, the owner or operator must provide the City with a record of the deficiency and corrective action(s) taken no later than 60 days following the date the deficiency was identified. If 60 days is not possible, then the operator must establish an expeditious schedule to complete the maintenance and establish a record of the deficiency and corrective action(s) taken.

Responsible Party: Code Enforcement Officer



SEE 3.6 MCM VI - Pollution Prevention/Good Housekeeping for Municipal Operations

The objective of this program is to mitigate or eliminate pollutant runoff from municipal operations on property that is owned or managed by the permittee and located within the urbanized area.

The City selected BMPs for the Pollution Prevention/Good Housekeeping for Municipal Operations MCM of this SMP. The following BMPs are specific to the City and are to be implemented in addition to those options outlined in the BASWG SMP.

3.6.1 BMP6A - Operation and Maintenance Activities

Permittees must inventory and implement written operation and maintenance (O&M) procedures for all municipal operations conducted in, on, or associated with facilities, buildings, golf courses, cemeteries, parks, and open space owned or operated by the permittee that have the potential to cause or contribute to stormwater or surface water pollution. O&M procedures must reduce stormwater pollution to the maximum extent practicable and address stormwater treatment and controls that are used to achieve compliance with the conditions of the permit.

Description:

For previous MS4 permit cycles, the City developed and/or revised an O&M Plan for all activities occurring on municipally owned properties that have the potential to impact stormwater runoff. The O&M Plan contains an inventory of these municipal operations.

The Plan inventory includes, at a minimum, the following activities:

- Automobile Maintenance;
- Hazardous Materials Storage;
- Landscaping and Lawn Care;
- Parking Lot and Street cleaning;
- Roadway Maintenance;
- Pest Control;
- Road Salt Application and Storage;
- Spill Response and Prevention;
- Storm Drain System Cleaning;
- Vehicle Washing; and
- Vehicle Fueling System.

Measurable Goals:

- 1. The City will annually review and update its inventory of municipal operations that have the potential to cause or contribute to stormwater pollution.
- 2. The City will evaluate the O&M Plan annually to iteratively improve strategies and practices to eliminate or better control pollutant discharges.
- 3. A summary of the O&M activities and any proposed changes to the O&M Plan based on annual evaluations will be provided in the MS4 Annual Report submitted to MDEP each permit year.



SEE Implementation:

The City will update its O&M Plan to include any changes to municipal operations by the permit effective date (July 1st, 2022), and review the plan annually thereafter. During all years of the 2022 permit cycle, the City will implement this O&M Plan for municipal activities occurring in the City that have the potential to impact stormwater runoff.

Responsible Party: Stormwater Coordinator

3.6.2 BMP6B - Municipal Employee Training

The permittee must conduct annual employee training to prevent and reduce stormwater pollution from municipal operations and facilities subject to the MS4 permit. Compliance measures related to trainings must be documented and reported to MDEP annually, and must include: the types of trainings presented, names and titles of attendees, the length of the training, and training content delivered.

Description:

The City provides municipal employee training on an as needed basis, but at a minumum annually. The training programs focus on municipal activities occurring in the City which have a potential to impact stormwater runoff. Typical municipal operations with this potential have been identified in the O&M Plan in **BMP 6A**.

Measurable Goals:

- 1. The City will annually evaluate and identify training needs and materials for MS4 staff regarding municipal O&M procedures.
- 2. Each permit year the City will provide an appropriate employee training program that addresses means to reduce stormwater pollution from municipal operations.
- 3. The City will document the following MS4 permit compliance measures for each annual training:
 - Types of training presented;
 - Percentage of municipal and contract staff trainees;
 - Occupations of municipal and contract staff trainees;
 - Duration of the training program; and
 - Content delivered during the training program.
- 4. The City will report compliance measures related to municipal trainings in the MS4 Annual Report submitted to MDEP each permit year.

Implementation:

Each permit year, the City will evaluate and identify specific training needs for municipal and contract staff regarding the City's O&M procedures. The City will then develop and gather materials appropriate for the topic to be presented. Topics to be covered by the training program may include, but are not limited to:

- Maintenance activities, maintenance schedules, and long-term inspection procedures for structural and non-structural stormwater controls to reduce pollutants discharged from the MS4;
- Controls for reducing or eliminating the discharge of pollutants into the MS4 from streets, roads, highways, parking lots, maintenance and storage yards, fleet or maintenance shops with outdoor storage areas, salt/sand storage locations, snow disposal areas, and waste transfer stations; and



• Procedures for disposing of waste removed from the MS4 and areas listed above in accordance with all regulatory requirements (such as dredge spoil, accumulated sediments, floatables, and other debris).

The City may opt to coordinate employee trainings through a regional effort sponsored by the BASWG. City staff have participated in similar regional training programs as a cost saving measure during previous MS4 permit cycles. Details of regional training approaches by the BASWG for its MS4 members will be provided in the group's SMP submitted under separate cover to MDEP.

Responsible Party: Stormwater Coordinator

3.6.3 BMP6C - Street Sweeping

The permittees must develop and implement a program to sweep all paved streets and paved parking lots maintained by the permittee at least once a year done soon after snowmelt.

Description:

The City of Old Town employs a regular sweeping program on all City owned parking lots and roads. City personnel involved with winter maintenance operations also perform street sweeping. Applicable staff will be trained on all requirements associated with MS4 Program compliance.

Measurable Goals:

- 1. The City will perform street sweeping of all municipally owned/maintained roads at least one time each year, as soon as possible after snowmelt;
- 2. As necessary, the City will modify their winter road and parking lot maintenance program based on annual evaluations of street sweeping activities; and
- 3. A summary of annual sweeping activities and any program modifications will be provided in the MS4 Annual Report submitted to MDEP each permit year.

Implementation:

During each permit year, the City will continue to implement a sweeping program for all municipally owned parking lots and roads. The City will annually evaluate the effectiveness of their street sweeping program and alter the program (as necessary) to meet their winter maintenance goals. Sweeping of all City owned roads and parking lots occurs as soon as possible after snowmelt.

Responsible Party: Stormwater Coordinator

3.6.4 BMP6D - Catch Basin Inspection and Cleaning

The permittee must develop and implement a program to inspect catch basins and other stormwater structures that accumulate sediment. All catch basins and stormwater structures must be inspected at least once every other year and cleaned with a frequency appropriate to the accumulation identified. Sediments must be removed in accordance with current state law.

Description:

The City's stormwater management system consists of a system of open ditches, catch basins and interconnecting storm drains collecting runoff that discharge to identified outfalls.



Measurable Goals:

Per MS4 permit requirements, the City will meet the following stormwater infrastructure inspection and cleaning goals:

- 1. During each permit year, the City will inspect and clean (as necessary) storm drains and catch basins in the storm sewer system to meet the following required frequency and conditions:
 - Inspect and clean a minimum of 50% of all catch basins, so that all catch basins are inspected and cleaned over the course of two years;
 - Clean catch basins more frequently if inspections indicate excessive accumulation (50% of the sump is filled) of sediment.
 - If two consecutive inspections show excess accumulation, then the City will clean those catch basins every year.
 - If annual inspections show a decrease in sediment accumulation to less than 25% of the sump, then inspections can be resumed at a frequency of once every two years.
- 2. The City will perform opportunistic inspections of the catch basins during the cleaning process to detect potential illicit discharges;
- 3. Inspections will be completed using an electronic form and documented in a database system used by the City to manage all MS4 related inspections. See **Attachment D** for a paper example of the electronic form used for these inspections; and
- 4. Inspections and cleaning of catch basins beyond the enforceable number (50% annually) will be considered an above and beyond measure.

Implementation:

The City will continue to inspect every year, and clean at the required frequency and conditions outlined in Measurable Goal 1, all municipally owned catch basins.

Responsible Party: Stormwater Coordinator

3.6.5 BMP6E - Maintenance and Upgrading of Stormwater Conveyance System

The permittee must evaluate and implement a prioritized schedule, as necessary, for repairing or upgrading the conveyances, structures, and outfalls within the regulated area.

Description:

The City's stormwater conveyance system consists of a system of open ditches, catch basins, and interconnecting storm drains collecting runoff that discharge to identified outfalls.

Measurable Goals:

- 1. During each permit year, the City will continue to evaluate and implement a maintenance schedule for conveyances, structures and outfalls owned and operated by the MS4; and
- 2. A summary of annual activities will be provided in the MS4 Annual Report submitted to MDEP each permit year.

Implementation:

The City will continue to evaluate their stormwater conveyance system each year. Based on the results of dry weather outfall inspections, catch basin inspections (**BMPs 3D**, **6D**) and other factors, the City will plan and implement (as necessary) a repair schedule of municipally owned conveyances, structures and outfalls.

Responsible Party: Stormwater Coordinator

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SEE 3.6.6 BMP6G - Trash Management Program

This BMP does not respond to a specific requirement of the 2022 MS4 General Permit, but is part of the City's ongoing efforts to address MCM VI.

Description:

For its solid waste management program, the City contracts solid waste management services to Casella Waste Systems for both City solid waste and recycling operations.

Measurable Goals:

The City will annually evaluate the program based on performance metrics designed to meet municipal solid waste management goals. A summary of the City's solid waste management program will be included in the MS4 Annual Report.

Implementation:

During each permit year, the City will continue to implement its existing trash management program. The City will ensure dumpsters and roll-offs are in good working order and lids are closed to prevent precipitation from entering the dumpsters/roll-offs and wind blown trash from escaping the dumpster, where possible.

Responsible Party: Stormwater Coordinator



General Requirements

4.1 Plan Approval

The City is committed to reduce the discharge of pollutants from its regulated small MS4 to the maximum extent practicable, and maintains the highest standards for stormwater management through regular review, updating, and implementation of this Stormwater Management Plan.

William Q. Mayo Signature

<u> 3/25/21</u> Date

William J. Mayo, Manager Printed Name, Title

4.2 Plan Location and Public Access

The Stormwater Management Plan and documents will be kept on file at the the City Office and posted on the City's website, with a backup copy located at SEE, Inc. in Orono, Maine. Copies and review of documents will be made available when requested by appropriate government agencies and public safety groups.

5 References

Portions of the Introduction and select areas of this document were adapted from a SMP Template prepared by Integrated Environmental Solutions for the Interlocal Stormwater Working Group (ISWG).

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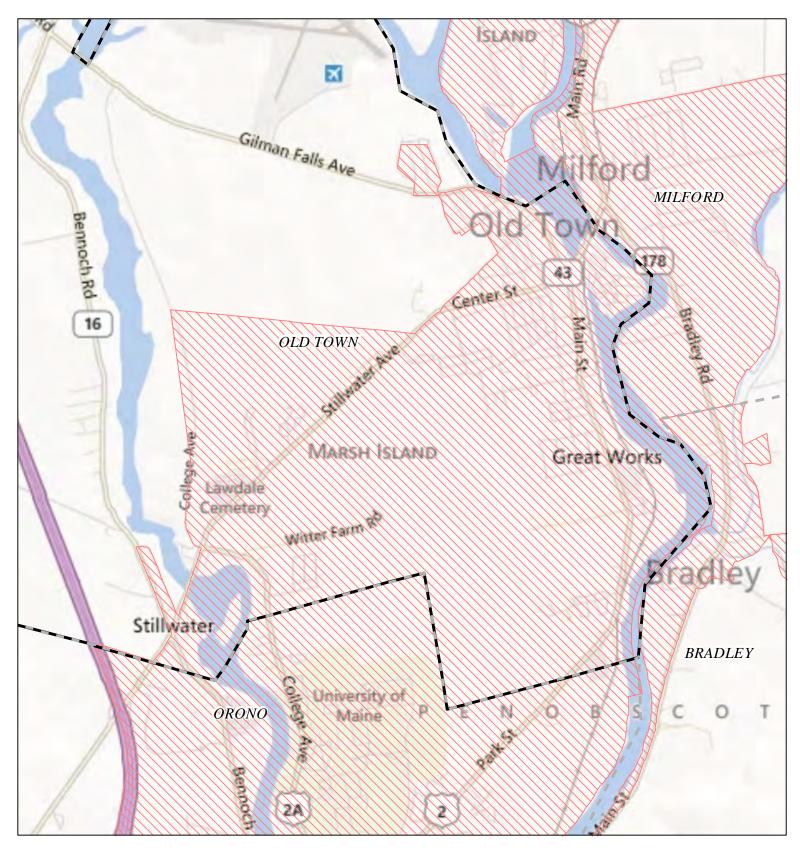
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NPDES Phase II Stormwater Program Automatically Designated MS4 Areas

Old Town ME

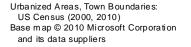
Town Population:7729Regulated Population:5774(Populations estimated from 2010 Census)



Regulated Area (2000 + 2010 Urbanized Area)

2 Kilometers

2 Miles



US EPA Region 1 GIS Center Map #8824, 11/19/2012



SEE B Illicit Discharge Detection and Elimination (IDDE) Plan

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Illicit Discharge Detection and Elimination Plan

For

The City of Old Town 265 Main Street, Old Town, ME 04468 (207) 827-3965



Prepared By Stillwater Environmental Engineering, Inc.

> June 2015 Last Updated: March 25, 2021

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1 Illicit Discharge, Detection, and Elimination (IDDE) Introduction

Due to its population density, the City of Old Town is subject to the requirements of the Maine Department of Environmental Protection (MDEP) General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4 General Permit).

There are six Minimum Control Measures (MCM's) which the MS4 General Permit requires the City to address throughout its urbanized area and specifically focused within the City's priority watershed of Penobscot River. An urbanized area map can be found in **Appendix A**. Infrastructure maps for the City can be found in the City's GIS and can be made available upon request.

These MCM's include:

- 1. Public Education and Outreach;
- 2. Public Involvement and Participation;
- 3. Illicit Discharge Detection and Elimination (IDDE);
- 4. Construction Site Stormwater Runoff Control;
- 5. Post-Construction Stormwater Management in New Development and Redevelopment; and
- 6. Pollution Prevention/Good Housekeeping for Municipal Operations.

This Plan, which details the IDDE program for the City of Old Town, fulfills the requirements of MCM 3 as specified in Part IV(C)(3)(b) of the 2022 MS4 General Permit. Details concerning measurable goals and deadlines for MCM 3 can be found in the City's Stormwater Management Plan (SMP).

1.1 IDDE Program Amendments, Updates, and Records

MS4 General Permits are written to provide coverage for five-year periods. The current MS4 General Permit coverage became effective on July 1, 2013 and has been administratively continued beyond five years, to expire on June 30, 2022. At the expiration of the current MS4 permit, the new 2022 MS4 General Permit, issued on October 15, 2020, will be in effect for five years beginning on July 1, 2022. This new permit will continue to provide coverage for the City of Old Town for stormwater discharges. This IDDE Plan has been updated to meet the requirements of the 2022 MS4 General Permit. This Plan must be further updated or amended if any of the following occur:

- · Changes in requirements associated with a permit re-issuance;
- The City determines that this Plan is not effective; and/or
- Changes to municipal operations which effect this Plan.

The City's Public Works Department is responsible for MS4 General Permit compliance. The Public Works Department manager, John Rouleau, will modify this IDDE Plan as necessary, or utilize an outside consultant for the task.

The Public Works Department will retain paper or electronic files of inspections and investigations including laboratory reports, for a minimum of three years after expiration of the MS4 General Permit term.



SEE 1.2 Typical Illicit Discharges

The MDEP defines an illicit discharge as any discharge to an MS4 which is not:

- Composed entirely of stormwater;
- An allowable non-stormwater discharge (see **Section 3** for a list of allowable non-stormwater discharges); or
- Permitted under another MDEP permit.

The Center for Watershed Protection (CWP) developed a comprehensive IDDE Manual in 2004 (updated in 2011), which classifies illicit discharges based on their characteristics:

- Discharge Frequency
 - Continuous: Discharges which occur most or all of the time, are usually easier to detect, and typically produce the greatest pollutant load.
 - Intermittent: Discharges which occur over a shorter period of time, such as, a few hours per day
 or a few days per year. Due to their infrequency, intermittent discharges are hard to detect, but
 can still represent a serious water quality problem, depending on their flow type. (See below)
 - Transitory: Discharges which occur rarely, usually in response to a singular event such as an industrial spill, ruptured tank, sewer break, transport accident or illegal dumping episode. These discharges are extremely hard to detect with routine monitoring, but under the right conditions, can exert severe water quality problems on downstream receiving waters.
- Discharge Flow Type
 - Sewage and Septage: Flows produced from sewer pipes and septic systems.
 - Wash water: Flows composed of:
 - * Gray water (laundry) from homes;
 - * Commercial carwash wash water;
 - * Fleet wash water;
 - * Commercial laundry wastewater; and
 - * Floor washing shop drain wastewater.
 - Liquid Wastes: Flows containing contaminants such as:
 - * Oil;
 - * Paint;
 - * Process water (radiator flushing water, plating bath wastewater, boiler blowdown, etc.); and
 - * Any other potentially hazardous chemicals.
 - Tap Water
 - Landscape Irrigation
 - Groundwater and Spring water
- Mode of Entry
 - **Direct:** The discharge is directly connected to the storm drain pipe through:
 - * Sewage pipes; and
 - * Shop drains or other kinds of pipes.
 - **Indirect:** Flows which enter through stormdrain inlets or by infiltration through joints or breaks in a stormdrain pipe.

Illicit discharges may be detected by various means such as:

- The City's illicit discharge hotline;
- City staff during normal daily activities;
- Through annual inspections; and
- During infrastructure maintenance and repair.

By analyzing the different types of discharges and the means by which they may be discovered or reported, the City has developed a comprehensive IDDE program that will enable the City to identify and eliminate illicit discharges as quickly as possible. A table listing typical illicit discharges and their characteristics can be found on the next page. This table is not an exhaustive list of illicit discharges, but a list of typical discharges which may be found in the City.

Discharge		Frequency*		Frequency* Mode of Entry	of Entry	Detection Method	
Discharge	Flow Type	Cont	Inter	Trans	Direct	Indirect	Detection Method
Spills/Leaks	Liquid Wastes			x		X	Hotline & MDEP
Swimming Pool Discharges	Highly Chlorinated Water			x		X	Hotline
Sanitary Sewer Connections	Sewage	X	X		x		Outfall Inspections
Waste Dumping	Liquid Wastes			x		X	Hotline & Inspections
Floor Drain Connections	Liquid Wastes		X		х		Inspections
Failing Septic Systems	Septage	X	X			Х	Inspections & Sampling
Sewer Line Leaks	Sewage	X	X			Х	Inspections & Sampling
Contaminated Groundwater	Groundwater	X	X	x		X	Sampling
Industrial Materials/ Stockpiles	Liquid Wastes/ Sediment		X	x		x	Hotline & Inspections
Irrigation & Lawn Watering	Tap Water		X			X	Inspections & Sampling
Commercial/Industrial Washdowns	Wash Water		X			X	Hotline & Inspections
Sanitary Sewer Overflows	Sewage			X		X	Hotline & Sewer Dept.

Table 1: Typical Illicit Discharge Characteristics

*Frequency types: Cont = Continuous; Inter = Intermittent; Trans = Transitory



SEE 1.3 Overview of IDDE Program Components

In order to be compliant with the MS4 General Permit an IDDE program must be developed, implemented, and contain the following components:

- 1. Development/maintenance of a Watershed-Based Storm Sewer Map;
- 2. Development/maintenance of a Non-Stormwater Discharge Ordinance;
- 3. Identification of High Priority Areas for Inspections;
- 4. Procedures to Locate Illicit Discharges;
- 5. Procedures to Investigate and Remove Illicit Discharges; and
- 6. Procedures to Document Illicit Discharges.

The following sections offer detailed information concerning each component of the City's IDDE program.

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2 Watershed-Based Storm Sewer Map

The first component of the City's IDDE program is the mapping of the City's storm sewer system. These maps enable the City to accurately track and locate the source of illicit discharges. The City's infrastructure maps contain features that meet or exceed the minimum requirements of the MS4 General Permit such as:

- The locations of all:
 - Catch basins;
 - Connecting surface and subsurface stormwater infrastructure;
 - Outfalls; and
 - Ditches.
- A unique identifier for all outfalls and catch basins; and
- The direction of in-flow and out-flow of all storm sewer connections;

For each outfall the following information is collected:

- Type;
- Material;
- Size; and
- Name and location of the nearest receiving waterbody.

An outfall is the location where concentrated stormwater discharges from an MS4 community enter Waters of the State or leave the MS4. Items that are not considered outfalls include:

- Driveway culverts connecting ditch segments;
- Stormdrains which convey streams/rivers under roadways; and
- Pipes that discharge to other stormwater infrastructure.

Information that the City plans to add to, or maintain within, their watershed-based storm sewer maps includes:

- Topography;
- Tax parcels;
- Zoning districts; and
- Locations of sanitary sewer lines.

The City of Old Town maintains electronic copies of its existing watershed-based storm sewer maps. These maps were created using GPS data, transportation infrastructure maps, and existing stormwater infrastructure information. When possible, field verification of stormwater infrastructure is conducted in order to ensure accurate mapping.



2.1 Infrastructure Naming Protocols

To improve existing infrastructure maps, the City has delineated watersheds in its urbanized area using the United States Geological Survey (USGS) StreamStats online tool. A total of 11 watersheds have been delineated within the urbanized area (Penobscot River, Stillwater River, and nine unnamed stream watersheds). This watershed delineation was used to aid the City during the IDDE Prioritization detailed in **Section 4** below.

In addition, infrastructure (catch basins and outfalls) in the City's GIS are assigned unique alpha-numeric tags, which aid in identification for illicit discharge investigations and infrastructure maintenance.

2.2 Procedures to Update Infrastructure Map

Infrastructure maps are updated, as necessary, when new or previously unmapped infrastructure is located. The City utilizes mobile data collection devices with sub-meter GPS capabilities while conducting annual stormwater inspections, in addition to as-built drawings from new development. This information is used to update the stormwater infrastructure maps, as necessary. The City's Stormwater Coordinator is responsible for ensuring accurate data are being collected and that the infrastructure maps are updated when necessary.



3 Non-Stormwater Discharge Ordinance

The City's authority to prohibit illicit discharges became effective February 7, 2005, when the City passed their Non-Stormwater Discharge Ordinance (see **Appendix I**). The Code Enforcement Officer is authorized as an Enforcement Authority to administer, implement, and enforce the provisions of the Ordinance.

The Ordinance allows the following non-stormwater discharges to the storm drain system, as long as they do not cause or contribute to violations of water quality standards:

- Landscape irrigation;
- Diverted stream flows;
- Rising ground waters;
- Uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20));
- Uncontaminated pumped ground water;
- Uncontaminated flows from foundation drains;
- Air conditioning and compressor condensate;
- Irrigation water;
- Flows from uncontaminated springs;
- Uncontaminated water from crawl space pumps;
- Uncontaminated flows from footing drains;
- Lawn watering runoff;
- Flows from riparian habitats and wetlands;
- Residual street wash water (where spills/leaks of toxic or hazardous materials have not occurred, unless all spilled material has been removed and detergents are not used);
- Hydrant flushing* and firefighting activity runoff;
- Water line flushing* and discharges from potable water sources;
- Individual residential car washing;
- Dechlorinated swimming pool discharges;
- Discharges specified in writing by the enforcement authority as being necessary to protect public health and safety; and
- Dye testing, with verbal notification to the enforcement authority prior to the time of the test.

*Discharges of hydrant and water line flushing are required to be dechlorinated if they are to be discharged to a portion of the MS4 system which discharges to a small stream. In accordance with the MDEP 11/18/2016 Issue Profile for Drinking Water System Discharges to Regulated Small MS4s, the Old Town Water District either aerates or dechlorinates during flushing to meet Total Residual Chlorine (TRC) acute water quality criteria. For fresh water this value is 19 ug/L TRC (adjusted to 50 ug/L, per the MDEP as the reporting limit for available reliable and consistent test methods).

The Old Town Water District flushes the system every year and provides an annual report to the City describing water dechlorination methods in use and testing results for any flushing conducted. The Hydrant Flushing SOP, developed during the previous permit cycle, is attached as **Appendix G**.

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4 Identification of Priority Areas

Prior MS4 General Permits required that permittees identify areas that may need special protection from illicit discharges. The City of Old Town has identified watershed drainage areas within its MS4 that have the highest potential for illicit discharge(s) to occur. The City will prioritize illicit discharge inspections in these priority areas if limited municipal resources prevent the City from conducting its typical annual inspection schedule, which is more frequent than the schedule required by the 2022 MS4 permit. The City may also use this prioritization for illicit discharge investigations, in the event there are insufficient resources to address all potential illicit discharges simultaneously.

During the 2013 MS4 permit cycle, the City's Stormwater Team identified priority areas where illicit discharges might be present, and identified areas that may need special protection from illicit discharges. Assisted by contracted service providers, City staff implemented a prioritization method developed by the Center for Watershed Protection, that consisted of the following steps:

- 1. Dividing the City into areas that could be evaluated for illicit discharge potential.
- 2. Selecting illicit discharge potential screening factors that apply to one or more of the areas and identifying the criteria to be used to evaluate each area.
- 3. Evaluating each area using the screening factors and assigning a numeric score based on their illicit discharge potential.

The City reviewed the screening factors presented in **Table 2** of **Appendix H**, to assess their applicability to each of the areas. The listing shows which screening factors were retained and eliminated, as well as the rationale for elimination.

Using the screening factors that were retained as applicable to the City, each drainage area was evaluated and assigned a score to describe whether the area exhibited a high potential for the factor to be present. Once all the areas were assigned scores for all of the screening factors, the scores were averaged and a final score for the area was obtained. A score of '3' represents a high priority area, a score of '2' represents a medium priority areas, and a score of '1' represents a low priority area.

The worksheet located in **Appendix H** shows the prioritization scoring scheme using retained screening factors for each of the areas identified in the City. Based on this procedure, areas having the highest normalized priority scores were determined to have the highest illicit discharge potential. As such, illicit discharge inspections are to be focused in these areas.



5 Procedures to Locate Potential Illicit Discharges

The City utilizes the following methods to detect illicit discharges:

- Observations during catch basin inspections and cleaning;
- Citizen reports of illicit discharge issues;
- Dry weather outfall inspections and monitoring; and
- Opportunistic open ditch inspections.

The below sections provide more detailed information concerning the above listed items.

5.1 Catch Basin Inspections and Cleaning

Inspections are conducted during catch basin cleaning, which is completed at least annually in the spring as soon as possible after snow melt. Although inspections are only required every two years by the MS4 General Permit, each year inspections are attempted for all the City's accessible catch basins to assess which need to be cleaned. These inspections are conducted using a hand held mobile device and an electronic inspection form. These data are then integrated with the City's GIS system. During the inspections the amount of accumulated sediment and the general structural condition of the catch basin is noted along with the presence of:

- Debris
- Oil sheen
- Odors
- Other evidence of an illicit discharge.

5.2 Citizen Reports of Illicit Discharges

The City has established a "hotline" to handle possible illicit discharge reports. Residents, field staff, and outside agencies that suspect an illicit discharge, connection, or illegal dumping incident can call (207) 827-3974 to report the incident.

Any illicit discharge incidents that are reported by phone are handled by the Stormwater Coordinator. These calls are documented using an electronic form that can be accessed by computer or on a mobile device. Incident report data are then used to help City staff locate and eliminate the potential illicit discharge as quickly as possible.

5.2.1 Public Awareness

The City understands that public awareness is a vital part of a successful IDDE program. The public must be made aware of what <u>does</u> and <u>does not</u> constitute an illicit discharge. The City conducts education and outreach efforts along with the Bangor Area Stormwater Group (BASWG) in order to educate the public about stormwater issues including illicit discharges. The City also conducts catch basin stenciling, where catch basins are labeled to inform residents that they drain to a waterway.

Information concerning illicit discharges and how to report them can also be found on the City's website.



SEE 5.3 Dry Weather Outfall Inspections

Dry weather outfall inspections are conducted annually City-wide. The MS4 General Permit requires that 100% of identified outfalls are inspected over the course of the five-year term. The City attempts to inspect <u>all</u> MS4 outfalls every year, if time and resources allow, in accordance with the following:

- Inspections will be performed during periods of dry weather (less than 1/4 inch of rain in the previous 72 hours) whenever possible;
- Inspections will be performed where they can be done in a safe and efficient manner;
- Inspections will be performed during periods of no or minimal snow cover and prior to the growth of vegetation (or after leaves have fallen) such that outfalls may be easily spotted;
- Observations will include the following, at a minimum: observations of sheen, discoloration, foaming, evidence of sanitary sewage, excessive algal growth and similar visual indicators, and detection of odor;
- Photographs are taken at the time of inspection for either maintenance or illicit discharge documentation;
- MS4 outfalls are inspected where the City has safe and legal access to the structure to be inspected, otherwise inspection occurs at the next structure upstream from the outfall; and
- When maintenance or potential illicit discharge issues are identified, the Stormwater Coordinator will be informed so that he may prioritize the work with other required work for the City.

Properly trained municipal staff or consultants conduct these inspections using an electronic inspection form on a mobile device. Data that are documented include:

- Time since last precipitation;
- General condition of the outfall;
- The presence or absence of multiple illicit discharge indicators; and
- If flow is present, any sampling data that was collected. (See QAPP in Appendix E).

The City has developed an SOP document for dry weather outfall inspections, which can be found in **Appendix D.1**.

5.3.1 Outfall Indicator Sampling and Analysis

Outfall sampling and analysis is required under the 2022 MS4 General permit when an outfall is observed to be flowing during dry weather conditions whether or not it has exhibited evidence of an illicit discharge. A sample will be collected by the inspector for either field screening or laboratory analysis, depending on the conditions encountered. Sampling and analysis must include, but is not limited to:

- 1. E.coli, enterococci, total fecal coliform or human bacteroides;
- 2. Ammonia, total residual chlorine, temperature and conductivity; and
- 3. Optical enhancers or surfactants.



A Quality Assurance Project Plan (QAPP) for MS4 Dry Weather Outfall Monitoring has been developed to provide sampling personnel the information that will assist them in collecting samples for field and/or laboratory analysis, using field equipment and test kits, and documenting results. The QAPP (**Appendix E**) describes the sampling procedures as well as the appropriate analytical methods and field equipment to be used for investigating potential illicit discharges and flowing outfalls. The QAPP also provides guidance on interpretation of the results obtained so that investigators can make informed decisions about whether to continue investigating a potential source, or whether the results indicate a flowing outfall might be from a natural source.

5.4 Open Ditch Inspections

The 2022 MS4 General Permit does not require ditch inspections be completed. However, City Public Works staff will conduct opportunistic inspections of ditches for potential illicit discharges whenever maintenance work is being completed. If any potential illicit discharges are identified, they will be reported to the Stormwater Coordinator, who will determine next steps. Staff will be trained to evaluate the following items during these opportunistic inspections:

- Any unmapped possible illicit connections;
- Oil sheen;
- Odors; and
- Other evidence of possible illicit discharges.



6 Procedures to Investigate and Remove Illicit Discharges

6.1 Illicit Discharge Investigation

Investigations of illicit discharges are conducted by the Public Works Department. The City relies on visual observations of the location where the illicit discharge was reported as a first step in identifying the source of the illicit discharge (see Illicit Discharge Tracing SOP in **Appendix D.1**. If the evidence of the illicit discharge is still present in the initial structure or location where it was reported, City staff or contracted personnel use their knowledge of the City's infrastructure to systematically inspect other structures upstream of the initial location until either the evidence of the illicit discharge is no longer present, or until they locate the source of the illicit discharge.

For example if evidence of gray water was observed during catch basin cleaning, City staff would inspect drain manholes and/or catch basins upstream of the initial observation until they could isolate one or more locations from which the gray water was likely emanating.

In the event visual observations of the structures cannot identify the source of an illicit discharge, Public Works staff may employ televising, systematic dye testing, or smoke testing to identify the source. The Public Works Department could conduct dye testing but would need to hire a third party for smoke testing and camera work. Sampling and analysis may also be conducted as described in **Section 5.3.1** to help trace the source of an illicit discharge.

If no source can be located, the area will be re-inspected to assess if the illicit discharge was a one-time occurrence, or is a repeating occurrence, whereupon additional investigations will be conducted.

6.2 Illicit Discharge Removal

Once the potential source of the illicit discharge is identified, the Code Enforcement Officer would contact the responsible party in order to initiate removal or discontinuation of the illicit discharge.

If the illicit discharge is caused by a private entity, the Code Enforcement Officer could issue a Notice of Violation as authorized by the Non-Stormwater Discharge Ordinance (**Appendix I**). In the event the illicit discharge is caused by the City, Public Works would contact the department responsible and work with them to remove or discontinue the illicit discharge. In either case, the City would require the responsible entity to eliminate the illicit discharge within 60 calendar days of identification of the source or would work with the responsible entity to establish an expeditious schedule to remove the illicit discharge.

The City has developed an SOP document for illicit discharge source removal, which can be found in **Appendix D.3**. For more in-depth information concerning the investigation and removal of illicit discharges see Chapters 13 and 14 of *Illicit Discharge Detection and Elimination*, Center for Watershed Protection, 2004.



Procedures to Document Illicit Discharges

The City will track the progress of the investigation and removal of illicit discharges using their GIS and electronic data management system. Each year, the City is required to complete an annual report summarizing the activities completed under the MS4 Program. All illicit discharge incidents will be documented in this report and all illicit discharge reports will be made available upon request. For more detailed information concerning the tracking of illicit discharges, see Chapter 10 of *Illicit Discharge Detection and Elimination*, Center for Watershed Protection, 2004.



8 Coordination with Nearby Communities

8.1 Possible inflow and outflow locations

Preventing and responding to possible illicit discharges requires that an MS4 permittee have a thorough understanding of its storm sewer system. An integral part of this understanding involves mapping and inspecting all inflow and outflow locations in the municipality. Locating all possible inflow and outflow locations prepares the permittee to not only prevent a discharge from its regulated area, but to also respond quickly and efficiently to prevent discharges in nearby MS4s from entering its storm sewer system.

During the previous MS4 permit cycle, the City mapped all possible inflow and outflow locations within its regulated area, and added these locations to its infrastructure maps (see **Appendix B**).

8.2 Communication with Adjacent MS4s

The City of Old Town maintains communication with all adjacent, interconnected MS4 communities in order to facilitate a quick and coordinated response to any possible illicit discharges that may leave or enter its storm sewer system either from the City itself or from a neighboring MS4.

Contact information and documentation of correspondence with interconnected MS4s, including any coordinated responses to illicit discharge events, is contained in **Appendix C** of this IDDE Plan.



Center for Watershed Protection. 2011, Illicit Discharge Detection and Tracking Guide.

City of Bangor, Maine. August 2013, revised March 2014, *Illicit Discharge Detection and Elimination Pro*gram.

CWP and Robert Pitt. October 2004, Illicit Discharge Detection and Elimination Manual - A Guidance Manual for Program Development and Technical Assessments. Available at www.cwp.org

Integrated Environmental Engineering. December 2014, revised February 2021, *Illicit Discharge Detection and Elimination Program, for the Town of Cape Elizabeth, Maine.*

State of Maine, Department of Environmental Protection. 2013, General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems.

US Environmental Protection Agency. 2012, EPA New England Bacterial Source Tracking Protocol - Draft.



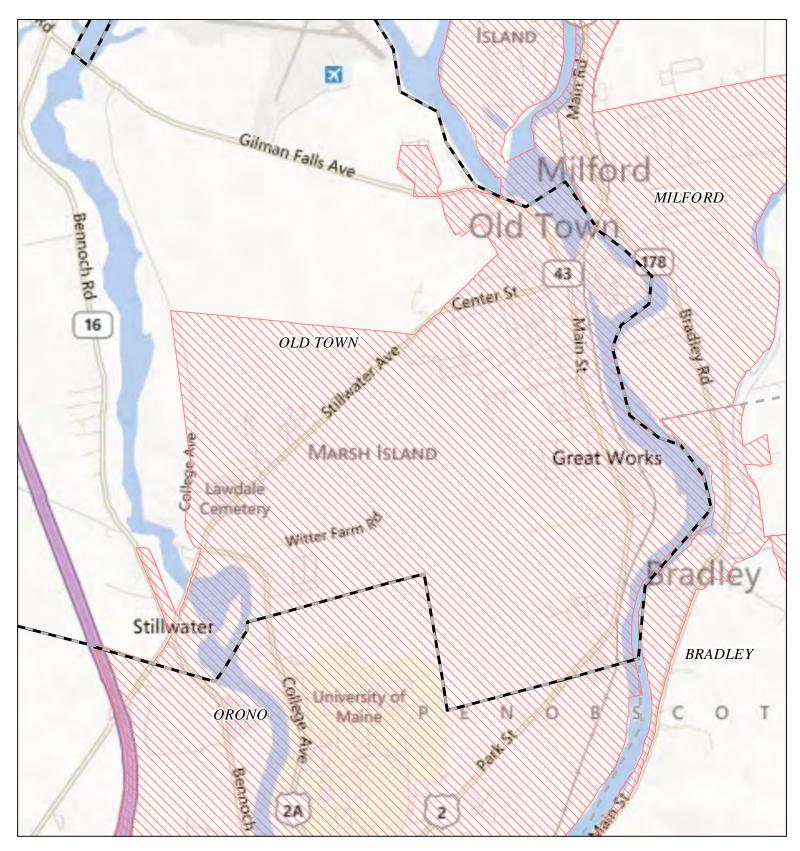
Appendices

A Urbanized Area Map

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NPDES Phase II Stormwater Program Automatically Designated MS4 Areas

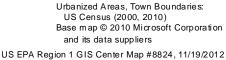
Old Town ME

Town Population:7729Regulated Population:5774(Populations estimated from 2010 Census)



Regulated Area (2000 + 2010 Urbanized Area)

2 Kilometers





The City's Stormwater Infrastructure Map can be found in the City's GIS.



SEE C Interlocal Contacts and Coordinated Response

This Appendix contains correspondence with interconnected MS4s. This correspondence was intitially implemented during the 2013 MS4 permit cycle. An updated notification letter was recently provided to interconnected MS4s and is provided below. All associated correspondence and coordinated IDDE response with neighboring communities will be documented in this Appendix.

The City of Old Town's interconnected MS4s and contacts are:

Town of Orono:

- Name: Rob Yerxa
- Title: Public Works Director
- Phone Number:(207) 889-6101
- Email: ryerxa@orono.org

MaineDOT:

- Name: Kerem Gungor
- Title: Stormwater Engineer
- Phone Number: (207) 592-3489
- Email: kerem.gungor@maine.gov

University of Maine:

- Name: Jodi Munster
- Title: Assistant Director of Administration and Environmental Compliance
- Phone Number: (207) 735-3642
- Email: jodi.munster@maine.edu



March 15, 2021

Jodi Munster, Assistant Director of Administration and Environmental Compliance University of Maine Office of Facilities Management 5765 Service Building Room 101K Orono, ME 04469

Re: Interconnected MS4 Notification and Coordination

Dear Jodi,

The City of Old Town is regulated under the Maine Municipal Separate Storm Sewer System (MS4) General Permit for the discharge of stormwater from its urbanized area. Under this permit, the City is required to coordinate with interconnected and nested MS4 permittees. With the recent reissuance of the new 5-year MS4 General Permit, which takes effect July 1st, 2022, Old Town has developed and will implement a new Stormwater Management Plan (SMP). Our Notice of Intent (NOI) to comply with the 2022 MS4 permit, accompanied by our SMP, will be filed with the Maine Department of Environmental Protection (MDEP) on or before March 31st, 2021 and will also be posted on the City's website.

Because the University MS4 regulated area interconnects with Old Town's regulated area, we wanted to make you aware of our compliance efforts and SMP submission, as well as the continued implementation of our Illicit Discharge Detection and Elimination (IDDE) Plan that has been updated for the new permit.

Included in the IDDE Plan is an easy way for Old Town residents and staff to contact me, the Stormwater Coordinator, in the event of an illicit discharge. Should an illicit discharge occur on your campus that has the potential to discharge to Old Town's MS4, we request that you contact me immediately upon discovery of the discharge. Should an illicit discharge occur in the City of Old Town that has the potential to affect the University's MS4, I will contact you immediately. Please forward this request to any of your staff that might be in a position to coordinate illicit discharge response efforts.

Thank you for your cooperation in this effort to minimize the potential for illicit discharges into our MS4. Feel free to contact me with any questions.

Respectfully, John Rouleau

Public Works Director and Stormwater Coordinator Phone: (207) 827-3974 Email: jrouleau@old-town.org

> 265 Main Street • Old Town, ME 04468 tel 207-827-3974 • fax 207-837-3986



March 15, 2021

Kerem Gungor, Stormwater Engineer MaineDOT Environmental Office 16 State House Station Augusta, ME 04333

Re: Interconnected MS4 Notification and Coordination

Dear Kerem,

The City of Old Town is regulated under the Maine Municipal Separate Storm Sewer System (MS4) General Permit for the discharge of stormwater from its urbanized area. Under this permit, the City is required to coordinate with interconnected and nested MS4 permittees. With the recent reissuance of the new 5-year MS4 General Permit, which takes effect July 1st, 2022, Old Town has developed and will implement a new Stormwater Management Plan (SMP). Our Notice of Intent (NOI) to comply with the 2022 MS4 permit, accompanied by our SMP, will be filed with the Maine Department of Environmental Protection (MDEP) on or before March 31st, 2021 and will also be posted on the City's website.

Because the MDOT MS4 regulated area interconnects with Old Town's regulated area, we wanted to make you aware of our compliance efforts and SMP submission, as well as the continued implementation of our Illicit Discharge Detection and Elimination (IDDE) Plan that has been updated for the new permit.

Included in the IDDE Plan is an easy way for Old Town residents and staff to contact me, the Stormwater Coordinator, in the event of an illicit discharge. Should an illicit discharge occur in your regulated area that has the potential to discharge to Old Town's MS4, we request that you contact me immediately upon discovery of the discharge. Should an illicit discharge occur in the City of Old Town that has the potential to affect MDOT's MS4, I will contact you immediately. Please forward this request to any of your staff that might be in a position to coordinate illicit discharge response efforts.

Thank you for your cooperation in this effort to minimize the potential for illicit discharges into our MS4. Feel free to contact me with any questions.

Respectfully, John Rouleau

Public Works Director and Stormwater Coordinator Phone: (207) 827-3974 Email: jrouleau@old-town.org

> 265 Main Street • Old Town, ME 04468 tel 207-827-3974 • fax 207-837-3986



March 15, 2021

Rob Yerxa, Public Works Director Town of Orono 59 Main Street Orono, ME 04473

Re: Interconnected MS4 Notification and Coordination

Dear Rob,

The City of Old Town is regulated under the Maine Municipal Separate Storm Sewer System (MS4) General Permit for the discharge of stormwater from its urbanized area. Under this permit, the City is required to coordinate with interconnected and nested MS4 permittees. With the recent reissuance of the new 5-year MS4 General Permit, which takes effect July 1st, 2022, Old Town has developed and will implement a new Stormwater Management Plan (SMP). Our Notice of Intent (NOI) to comply with the 2022 MS4 permit, accompanied by our SMP, will be filed with the Maine Department of Environmental Protection (MDEP) on or before March 31st, 2021 and will also be posted on the City's website.

Because the Town of Orono MS4 regulated area interconnects with Old Town's regulated area, we wanted to make you aware of our compliance efforts and SMP submission, as well as the continued implementation of our Illicit Discharge Detection and Elimination (IDDE) Plan that has been updated for the new permit.

Included in the IDDE Plan is an easy way for Old Town residents and staff to contact me, the Stormwater Coordinator, in the event of an illicit discharge. Should an illicit discharge occur in your municipality that has the potential to discharge to Old Town's MS4, we request that you contact me immediately upon discovery of the discharge. Should an illicit discharge occur in the City of Old Town that has the potential to affect the Town of Orono's MS4, I will contact you immediately. Please forward this request to any of your municipal staff that might be in a position to coordinate illicit discharge response efforts.

Thank you for your cooperation in this effort to minimize the potential for illicit discharges into our MS4. Feel free to contact me with any questions.

Respectfully ou John Rouleau

Public Works Director and Stormwater Coordinator Phone: (207) 827-3974 Email: jrouleau@old-town.org

> 265 Main Street • Old Town, ME 04468 tel 207-827-3974 • fax 207-837-3986









D Illicit Discharge Detection and Elimination Standard Operating Procedures

The following pages contain the Standard Operating Procedures (SOPs) followed by the City of Old Town for:

- Detecting illicit discharges via Outfall Inspections (Appendix D.1);
- Tracing illicit discharge sources (Appendix D.2); and
- Removing illicit discharge sources (Appendix D.3).



SEE D.1 Outfall Inspection SOP

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Standard Operation Procedure					
SOP-1 IDDE: Outfall Screening					
Purpose of the SOP:	This SOP provides a basic checklist for managers and field crews conducting illicit discharge inspections of storm drainage system outfalls				

Reference: Brown et al., *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments,* Center for Watershed Protection, Ellicott City, 2004.

Planning Considerations:

- Employees should have reviewed and understand the information presented in Chapter 11 of the reference manual
- Inspections are to occur during dry weather (less than ¼" precipitation in previous 72 hours)
- Conduct inspections with at least two staff per crew if possible
- Conduct inspections during low groundwater and leaf off conditions if possible

Field Methods:

- Ensure outfall is accessible contact Public Works if overgrown
- □ Inspect outfall only if safe to do so
- □ Visually inspect general area for possible sources
- Estimate flow
- Use electronic Outfall Inspection Form to document observations
- □ If dry weather flow is present, attempt to identify the source of the flow for future comparison
- □ If dry weather flow is present, conduct field screening (multi-meter parameters and ammonia/chlorine test strips), followed by the collection of samples for lab parameters (*E. coli* and Surfactant testing)
- If an illicit discharge is suspected follow procedures outlined in SOP-2 IDDE: Tracing Illicit Discharges
- Do not enter private property without permission

Equipment List:

- 1. Mobile data collection device
- 2. Cell phone
- 3. Flashlight (spare batteries)
- 4. Disposable gloves
- 5. Folding wood ruler
- 6. Multi-parameter probe
- 7. Ammonia test strips
- 8. Chlorine test strips
- 9. Sample bottles
- 10. Timer
- 11. Hand sanitizer
- 12. Safety vests
- 13. First aid kit
- 14. Cooler
- 15. Permanent marker



SEE D.2 Illicit Discharge Tracing SOP

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Standard Operation Procedure				
SOP-2 IDDE: Tracing Illicit Discharges				
Purpose of the SOP:	To provide a quick reference list of items to keep in mind during investigation activities to efficiently and systematically identify the source of an illicit discharge			

Reference: Brown et al., *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments,* Center for Watershed Protection, Ellicott City, 2004.

Planning Considerations:

- Employees should have reviewed and understand the information presented in Chapter 13 of the reference manual
- Review / consider information collected when illicit discharge was initially identified (Outfall Inspection Form)
- Consider storm drainage basin and land uses
- Conduct investigation with at least two staff per crew
- Manholes may only be entered by properly trained and equipped personnel with authorization by an confined space entry supervisor
- Never put yourself in danger

Field Methods:

- Revisit outfall to verify reported discharge is still present
- Conduct field screening and collect applicable samples, as necessary, depending on previous findings and as per SOP-1 and the QAPP located in Appendix E
- Survey the general area / surrounding properties to identify potential sources of the illicit discharge as a first step
- Investigate illicit discharges using visual inspections of upstream points as a second step
- Utilize O&M resources as required (traffic control, video truck, additional staff)
- Document investigation results for future reference
- Do not enter private property without permission (See the Non-Stormwater Discharge Ordinance for access and inspection permissions)
- If source cannot be found, add the location to a future inspection program

Equipment List:

- 1. Mobile data collection device
- 2. Cell phone
- 3. Flashlight (spare batteries)
- 4. Disposable gloves
- 5. Hand sanitizer
- 6. Safety vests
- 7. Manhole hook
- 8. Safety cones
- 9. Sledgehammer
- 10. Equipment for outfall sampling and monitoring



SEE D.3 Illicit Discharge Source Removal SOP

Standard Operation Pro		
SOP-3 IDDE: Illicit Disc		
Purpose of the SOP:	This SOP provides basic information for managers a enforcement staff to assist with illicit discharge sour utilizing escalating compliance actions	

Reference: Brown et al., Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments, Center for Watershed Protection, Ellicott City, 2004.

Planning Considerations:

- Employees should have reviewed and understand the information presented in Chapter 14 of the reference manual
- Employees should understand the Town's Non-Stormwater Discharge Ordinance

Field Methods:

- □ Upon identification of an illicit discharge to the MS4 the Stormwater Coordinator will be notified
- Upon identification of an illicit discharge to the MS4 the owner of the property, where the illicit connection is located will be notified and informed of their obligation to immediately stop the illicit discharge and begin corrective measures
- □ Town employees will provide technical assistance for eliminating the discharge and ensuring appropriate discharge of waste materials
- □ Follow-up inspections will be performed by municipal staff or consultants to verify that the illicit discharge is eliminated, and any corrective measures are installed in accordance with Town design standards
- Escalating enforcement and legal actions in accordance with Town Code will be utilized if the discharge is not eliminated



SEE E Quality Assurance Project Plan (QAPP) for MS4 Dry Weather Outfall Monitoring

Quality Assurance Project Plan for MS4 Dry Weather Outfall Monitoring

1 Overview

The purpose of this Quality Assurance Project Plan (hereafter referred to as the QAPP) is to describe the actions that the MS4 permittee will undertake in order to comply with requirements of the Maine Pollutant Discharge Elimination System (MEPDES) Municipal Separate Storm Sewer System (MS4) General Permit. Data generated by this plan will be included, as required by the General Permit, in the MS4 Annual Report to the Maine DEP.

1.1 Acknowledgement

This QAPP is based on a Stormwater Monitoring QAPP developed by Integrated Environmental Engineering, Inc. for municipalities in Maine. Permission to use content from Integrated Environmental's QAPP was granted by Kristie L. Rabasca, P.E.

2 Background and Scope

In Maine, there are 30 municipalities (permittees) regulated by the 2022 Maine General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4 General Permit). As part of the MS4 General Permit requirements, the municipalities must conduct dry weather inspections on 100% of their outfalls during the 5-year term of the MS4 General Permit.

2.1 <u>Requirements for Outfall Monitoring</u>

Under most conditions, if an outfall is observed to have dry weather flow, monitoring must be conducted to assess whether there is an *illicit discharge* associated with the flow. An illicit discharge is any discharge to a regulated MS4 system that is not composed entirely of stormwater other than:

- discharges authorized pursuant to another permit issued pursuant to 38 M.R.S. §413;
- uncontaminated groundwater;
- water from a natural resource (such as a wetland); or
- other Allowable Non-Stormwater Discharges identified in Part IV(C)(3)(h) of the MS4 General Permit.

Exempt conditions for dry weather outfall sampling and monitoring are described in Part IV(C)(3)(e)(vi) of the 2022 MS4 General Permit.

Monitoring must be conducted whether or not the outfall's dry weather flow exhibits evidence of an illicit discharge. Where dry weather flow is present at an outfall, the permittee must sample the

MS4 Outfall Monitoring QAPP 3/15/2021 Revision 1 Page **2**

discharge and analyze for the following parameters:

- E. coli, enterococci, total fecal coliform <u>or</u> human bacteroides;
- Optical enhancers <u>or</u> surfactants;
- Ammonia;
- Total residual chlorine;
- Temperature; and
- Conductivity.

Data from sampling and analysis can be used to determine if there is an illicit discharge present in the flow and can help to identify potential sources of the illicit discharge.

2.2 **QAPP Purpose**

The purpose of this Quality Assurance Project Plan (QAPP) is to provide sampling personnel information that will assist them in collecting samples and analyzing them using field equipment/test kit(s) and/or laboratories in a manner that ensures sufficient accuracy and precision for identifying or ruling out the presence of illicit discharges in dry weather outfalls. This QAPP provides information on various field equipment/test kit(s) and analytical methods available to permittees that can be used to comply with the MS4 permit requirements for dry weather outfall monitoring.

This QAPP has been developed to accompany a municipality's Illicit Discharge Detection and Elimination (IDDE) Plan, which is required by the MS4 General Permit. The QAPP itself does not contain all the IDDE requirements associated with the MS4 permit, so the municipality's IDDE Plan should be consulted to determine the specific monitoring requirements and schedules. In addition, if an inspection finds evidence of an illicit discharge, the municipality must investigate to identify the source and work with responsible parties to remove the source. The IDDE Plan describes the processes and procedures specific to a municipality for such follow-up investigations.

3 Sampling Procedures

3.1 <u>Sample Collection</u>

Samples are required to be collected at outfalls that exhibit dry weather flow (defined as flow after there has been no precipitation greater than ¹/₄ inch for 72 hours, and there is no melt water from snow or ice). Because dry weather flow can be intermittent and/or highly variable in short periods of time, personnel should be prepared to collect samples during any outfall inspection.

Samples are collected only from a flowing source, and where the pipe outlet has at least 1 or 2 inches of free-flowing drop before any standing water or pool below it (as in Fig. 1, below). Outfalls may not offer a clean catch of discharge (as in Fig. 2, below), and when this is the case, an alternative sampling

option should be considered, such as sampling upstream structures or using sand bags around the outfall to prevent contamination from backflow. Stagnant water should not be sampled unless the municipality deems it necessary.



Fig. 1. This outfall provides a good opportunity for a clean catch of its discharge.



Fig. 2. This outfall is partially submerged and a clean catch of its discharge is not possible.

3.2 <u>Sampling equipment</u>

If dry weather flow is present, the outfall is safely accessible, and a clean catch can be made, then monitoring should be conducted. **Table 1** provides a list of equipment that should be gathered and available for outfall monitoring. All samplers should be trained on the proper use and basic maintenance of field equipment prior to employing field methods. This includes training on calibration of analytical equipment used in the field, handling and disposal of field test kit components, and methods to minimize cross-contamination between samples.

After sampling events, any reusable sample collection containers are cleaned with soap and tap water. Cleaning is completed in a location where wash water can be discharged to a licensed wastewater treatment plant, sanitary sewer, or septic system.

Table 1. Field Equipment for Monitoring

1 Gallon of Distilled or de-ionized water for rinsing, and squirt bottle

1 Roll Paper towels

3-5 clean plastic 250 ml beakers for water sample collection in plastic bag marked "Clean" or disposable whirl-pak bags.

Garbage bags

1 long sampling pole and/or sampling pump and tubing

Equipment to remove and access catch basin covers if needed (hook/magnet, hammer, crowbar, etc.)

Field equipment/test kits (see Table 2) and bottles for any laboratory samples or off-site field test kits.

- Ensure field test kits have not expired
- Typically keep bottles available for 5-10 samples

Non-latex gloves

Box of 1-gallon plastic bags

Cooler with ice

Camera or phone

Safety Vest

Scissors

Sunscreen and bug spray

Clip board

3-5 Field Data Sheets (See Addendum 1)

Mobile device with application for digital data collection (e.g. Fulcrum)

Chain of Custody (See Addendum 2)

Sharpies and water-proof pens

Packing tape and Duct tape

Sheet of blank labels for bottles

First aid kit

3.3 Sample documentation

For each outfall sampled, a device with a mobile inspection data collection application (e.g. Fulcrum app), or a paper form as a backup, is used to document the date, time, and location of sample(s) collected, weather conditions, any general observations related to the tests being performed, and results of any parameters analyzed using field equipment or test kits. Note that the data collection form has a place to document sample observations including odor, color, turbidity, presence of algae, etc. These observations will be documented in addition to the observations made during the normal outfall inspection (which should be conducted in accordance with the MS4's IDDE Plan or SOP).

Sample bottles that will be taken away from the sampling site for analysis will be labelled with the date, time, and sample location as well as the name of the sampler. Example labels are provided in **Addendum 1** along with an example field data collection form.

When using a third-party laboratory for any off-site analysis, sample bottles should be obtained before the sampling event. Coordination with the laboratory is also recommended to ensure that sample hold times and preservation requirements are being met. If samples are being collected on a Friday, the laboratory may need prior notice to meet short hold times. Analytical methods, hold times, and other pertinent information is described in Section 4 of this QAPP.

4 Analysis methods

The MS4 General Permit does not require samples to be analyzed using Clean Water Act (CWA) Methods published in 40 Code of Federal Regulations Chapter 136. The use of field equipment/ test kit(s) and laboratories are both allowed. The MS4 General Permit does not require samples to be analyzed by a laboratory that is certified by the Maine DEP. However, this QAPP specifies that when a commercial laboratory is used for a CWA method, it will be certified by the Maine DEP for the CWA method specified.

A list of commercial certified laboratories is available on the Maine DEP website at: https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml.

Note also that many Wastewater Treatment Plants conduct bacteria analysis for operational purposes. If there is a Wastewater Treatment Plant in the area, it can also be used for the bacteria screening. This QAPP does not specify CWA methods or Maine DEP certification for use of field equipment/test kit(s) or *E. coli* testing.

Table 2 provides information related to sampling parameters, analysis methods, and sample preservation and hold times that may be used during dry weather outfall monitoring. Analysis methods specified in **Table 2** include CWA methods, field equipment, and test kits, where applicable. **Table 2** also provides information on when a particular analysis method might be preferable if there are

multiple options for a given parameter. Prior to sampling, the sampler and Stormwater Coordinator will determine what analysis method (CWA Method, field equipment, or test kit) will be used.

Test kit components that have expired will not be used and test kits will be replaced if/when they reach the end of their useful lives.

Dissolved oxygen, pH and conductivity meters are calibrated each day prior to use. The calibrations are documented electronically in a spreadsheet. Probes that have useful life limits are replaced following the manufacturers recommended schedule.

User manual(s) and safety data sheets (SDS) for field equipment and/or test kit(s) that will be utilized for dry weather monitoring are maintained electronically or in paper form, easily accessible to the field personnel who will be conducting the monitoring.

Bacteria - select one or more	CWA Method, Field	Preservation	Holding time	Bottle needed	Notes on Use
based on discharge	Equipment, or Test Kit				
environment					
Bacteria - E. coli	SM 9223 B (IDEXX	Ice	To lab within 6	120 ml or 250 ml	Use for discharges to freshwater (with ammonia
	Colilert Quanti-Tray)		hours	plastic sterile bottle	and either optical enhancers or surfactants)
	EPA 1603 (membrane		Analyze within	with lid from lab	
	filtration, MF)		2 hours of		
	Or SM 9221 B (Most		receipt		
	probable number, MPN)				
Bacteria - enterococcus	SM 9230 B, C or D,	Ice	To lab within 6	120 ml or 250 ml	Use for discharges to salt water (with ammonia
	(MPN including IDEXX		hours	plastic sterile bottle	and either optical enhancers or surfactants)
	Enterolert, or MF)		Analyze within	with lid from lab	
	EPA 1600 (MF)		2 hours of		
			receipt		
Bacteria – Fecal Coliform	SM 9222 D (MF	Ice	To lab within 6	120 ml or 250 ml	Use for discharges to salt or freshwater (with
	CFU/100ml)		hours	plastic sterile bottle	ammonia and either optical enhancers or
	Or SM 9221 C, E		Analyze within	with lid from lab	surfactants)
	(Multitube MPN/100ml)		2 hours of		
			receipt		
Bacteria – Human	Labs: EMSL (NJ),	Ice	To lab within 24	1000 ml plastic	Use for discharges to salt or freshwater (with
Bacteroides	Microbial Insights (TN) or		hours	bottle with sodium	ammonia and either optical enhancers or
	Source Molecular (FL)		Analyze within	thiosulfate from lab	surfactants).
			48 hours	(with insulated	
				shipping box)	Not a CWA method, so Maine Laboratory
					certification not required.

Ammonia (select one	CWA Method, Field	Preservation	Holding time	Bottle needed	Notes on Use
method)	Equipment, or Test Kit				
Ammonia	Ammonia Test Strips	None	Immediate (w/in 15 minutes) in Field	Field jar or beaker	
Ammonia	Laboratory Method EPA	Sulfuric Acid	5	250 ml plastic	
	350.1/350.2	(pH <2) + Ice		bottle from lab	
Ammonia	Hach DR300 Pocket Colorimeter Ammonia Nitrogen or LaMotte 3680- 01 DC1200 Colorimeter test kit	None	Immediate (w/in 15 minutes) in Field		Reagent contains Mercury, Generates a Toxic Hazardous Waste (D009) instructional video (10 minutes): https://www.youtube.com/watch?v=hFiEEE AmWFo_
Total Residual Chlorine (select one method)	CWA Method, Field Equipment, or Test Kit	Preservation	Holding time	Bottle needed	Notes on Use
Chlorine	Field kit – Hach Colorimeter II low range	None	Immediate (w/in 15 minutes) in Field		Instructional video available at: https://www.youtube.com/watch?v=WTTUD0 Hq1Vw_
Chlorine	Industrial test Systems Ultra- Low Total Chlorine Test Strips and other mid range chlorine test strips	None	Immediate (w/in 15 minutes) in Field	5	As of 6/2020, USEPA had not used Ultra low chlorine test strips (0.2 to 0.5 mg/L). Informal review shows these should be used simultaneously with a mid range (0.5 to 10 mg/l) test strips to double check range.
Temperature and	CWA Method, Field	Preservation	Holding time	Bottle needed	Notes on Use
Conductivity (use both)	Equipment, or Test Kit				
Temperature	Temperature/ Conductivity probe	None	Immediate (w/in 15 minutes) in Field		Use to distinguish between groundwater and surface water.
Conductivity	Temperature/ Conductivity probe	None	Immediate (w/in 15 minutes) in Field	, v	Use to distinguish between salt water and fresh water.

Optical Enhancers or Surfactants (select one)	CWA Method, Field Equipment, or Test Kit	Preservation	Holding time	Bottle needed	Notes on Use
Surfactants	SM5540C	Ice	To lab within 24 hours Analyze within 48 hours	500 ml plastic bottle from lab	Works on most soaps (laundry detergent, personal care products, dish soap)
Surfactants	CheMetrics K-9400 field test kit	None	Immediate (w/in 15 minutes) in Field	-	Works on most soaps (laundry detergent, personal care products, dish soap). Contains alcohol and chloroform. Generates a Flammable (D001) and Toxic (D022) Hazardous Waste. Do not use test kit in the field unless licensed to transport hazardous wastes. Instructional Video available at: https://www.youtube.com/watch?v=6vwiZgWqa0
Optical brighteners	VWR handheld UV lamp: UV-A: 360-365 nm, model number 89131-488	None	Analyze within 7 days	pad wetted with	Works only on water with high to moderate laundry detergent. Provides only presence/absence.
Optical brighteners	Maine Healthy Beaches Fluorometer (\$15,000 unit)	None	Keep in a dark container, provide to MHB in 1-2 days, analyze within 7 days	Whirl bag or 100 ml plastic bottle.	Provides semi-quantitative numeric fluorescence of sample. Need to provide sample to MHB in bottle or whirl bag (in a box or cooler). One week hold time. Provide advanced notice to coordinate delivery to office. Organic matter or tannins, or color will interfere.

Other Optional Parameters	CWA Method, Field Equipment, or Test Kit	Preservation	Holding time	Bottle needed	Notes on Use
Dissolved Oxygen	Hach DO Test kit Model OX-2P DO Probe		Immediate (w/in 15 minutes) in Field	Field jar or beaker	Waters of the state have Dissolved Oxygen standards. This test can show whether outfall contributions are affecting Dissolved Oxygen content of receiving waters.
рН	EPA method 4500-H+B pH Probe		Immediate (w/in 15 minutes) in Field	Field jar or beaker	Waters of the state have pH standards. This measurement can show whether outfall contributions are affecting the pH of receiving waters.
Total Phosphorus	EPA 365.3	Sulfuric Acid (pH <2) + Ice (4°C)	-	250 ml glass bottle from lab.	Provides data regarding nutrient contributions to receiving waters which can originate from paved surfaces, fertilizers, and eroding soils.
Personal Care Products	EPA 1694			1000 ml amber jar	EPA Lab Chelmsford can run if capacity. Contact Todd Borci. Otherwise need to use a commercial laboratory. EPA recommends analyzing only for following subset: Caffeine, 1,7-DMX (metabolite of caffeine), Acetominophen, Carbamazepine (anti- depressant), Primidone (anti-epilepsy drug), Atenolol (high Blood pressure med), Cotinine (metabolite of nicotine), urobilin (by product of hemoglobin breakdowns), Azithromycin (antibiotic)

Other Optional Parameters	CWA Method, Field Equipment, or Test Kit	Preservation	Holding time	Bottle needed	Notes on Use
Total Suspended Solids	EPA 160.2 or SM2549D	Ice	7 days	1000 ml plastic bottle from lab	
Biochemical Oxygen Demand	EPA 405.1 or SM5210B	Ice	To lab within 24 hours, analyze within 48 hours	300 mL BOD bottle	Provides general water quality information.
Total Petroleum Hydrocarbons DRO and GRO	SW 8015C	Ice	7 days to extraction 40 days after extraction	jar and	DRO is Diesel Range Organics (C10 to C28) GRO is Gasoline Range Organics (C5 to C10)
Nitrate + Nitrite	SM 4500 or EPA 300	Sulfuric Acid (pH <2) + Ice (4°C)	5	125 ml plastic	Provides data regarding nutrient contributions to receiving waters which can originate from paved surfaces, fertilizers, eroding soils or wastewaters.
Total Kjeldahl Nitrogen	SM 4500 or EPA 300	Sulfuric Acid (pH <2) + Ice (4°C)			Provides data regarding nutrient contributions to receiving waters which can originate from paved surfaces, fertilizers, eroding soils or wastewaters.

5 Quality Control

5.1 <u>Reporting Limits</u>

The following are the reporting limits required by the MS4 General Permit:

Ammonia: 0.5 mg/L Surfactants: 0.25 mg/L Total Residual Chlorine: 0.05 mg/L E. coli bacteria 4 cfu/100 ml Enterococcus 10 cfu/100 ml

To ensure that data collected meet the required reporting limits, the MS4 permittee will use either a Maine Certified Laboratory or one of the field equipment/test kit methods listed above in **Table 2** to assess dry weather flow.

Maine Certified Laboratories have standard reporting limits for the parameters that conform to the MS4 General Permit required reporting limits.

Each of the test kits listed above in **Table 2** has a use range that is appropriate for the work being conducted, and which meets the MS4 required reporting limits.

5.2 Equipment or Rinsate Blanks

For most instances, dedicated equipment and containers are used to collect samples, so that equipment and rinsate blanks are not required to be collected and analyzed. However, if equipment or collection containers are being used multiple times in the field for different sample locations, they should be rinsed with distilled water in between samples, and the rinsate disposed of away from the collection site. The USEPA Volunteer Monitor's Guide to Quality Assurance Project Plans has additional information on how to complete these tasks.

6 Field Data Sheets and Chain of Custody

As described in Section 3.3, a mobile inspection application will be used to digitally document sample collection. The application will document the type of field equipment or test kit(s) used and results of any field analysis. A list of parameters documented are provided in **Addendum 1** to this QAPP.

Whenever samples will be sent to a laboratory or transported for off-site analysis, a Chain of Custody will be used to document sample collection dates, times, analytical methods requested, and custody of the sample from the time it was collected, until the time it was analyzed. Example Chains of Custody are provided in **Addendum 2** to this QAPP.

7 Data Reports

Information and monitoring data collected on the mobile inspection application shall constitute data reports for analyses using field equipment or test kits.

Whenever samples are sent to a laboratory for analysis, data reports are provided by the laboratory showing the sample location, date and time of collection, results of the analysis, date and time of analysis, the reporting limit, the person who conducted the analysis, and the analytical method used.

8 Data Review and Follow up

Once all results have been received, they will be reviewed by the Stormwater Coordinator. Data shall also be stored electronically or in paper format for at least 3 years following the expiration date of the MS4 General Permit, as required by the MS4 General Permit.

If the person collecting the sample is the Stormwater Coordinator, they may opt to have another municipal staff person review the data, or a Stormwater Coordinator from another municipality if they deem it necessary to assist in the overall investigation. Data should be reviewed within 2 weeks of receipt and additional investigations should be implemented to identify the source of any potential illicit discharge if any of the thresholds in **Table 3** are exceeded.

Parameter	Threshold Level for Additional Investigation	Notes/Discussion
E. coli	236 cfu/100 ml – discharges into freshwater rivers or streams	All classifications of flowing fresh surface water in Maine (AA, A, B and C) have a standard that no more than 10% of the samples may exceed this concentration in any 90 day interval. A fresh surface water is at risk of impairment if it is receiving significant discharges from human sources above this concentration.
E. coli	194 cfu/100 ml – discharges into freshwater ponds	Great Ponds and lakes less than 10 acres have a standard that no more than 10% of the samples may exceed this concentration in any 90 day interval. A water of this type is at risk of impairment if it is receiving significant discharges from human sources above this concentration.
Enterococci	54 CFU/100 ml – discharges into saline/estuarine Class SA or SB	These waters have a standard that no more than 10% of the samples may exceed this concentration in any 90 day interval. A water is at risk of impairment if it is receiving significant discharges from human sources above this concentration. (Note Maine Healthy Beaches threshold is 104 MPN/100 ml)
Enterococci	94 CFU/100 ml – discharges into saline/estuarine Class SC	These waters have a standard that no more than 10% of the samples may exceed this concentration in any 90 day interval. A water is at risk of impairment if it is receiving significant discharges from human sources above this concentration. (Note Maine Healthy Beaches threshold is 104 MPN/100 ml)

Table 3. Thresholds for Additional Investigation

Parameter	Threshold Level for Additional Investigation	Notes/Discussion
Fecal Coliform	61 cfu/100 ml (2 times 31 cfu/100 ml for MF) to 100 cfu/100ml	The low end of this threshold is two times the 90 th percentile standards that DMR applies for approved (open) shellfish harvesting areas and is very conservative (90% of the samples collected from the area must be above these concentrations for the harvesting area to remain open and completely unrestricted for shellfish harvesting.)
Human Bacteroides	Any concentration may be indicative of human sewage.	Any concentration of human source of sewage should be investigated.
Ammonia	\geq 0.50 mg/L	This is the effective reporting limit of the Ammonia test strips and was taken from USEPA Draft 2012 Bacteria Source Tracking Protocol.
Chlorine	\geq 0.05 mg/L	Limit of test kit and was taken from USEPA Draft 2012 Bacteria Source Tracking Protocol.
Surfactants	\geq 0.25 mg/L	Taken from USEPA Draft 2012 Bacteria Source Tracking Protocol.
Optical Brighteners	$\geq 100 \text{ ug/L}$) ($\geq 0.10 \text{ mg/L}$)	This is used by Maine Healthy Beaches as an actionable threshold. If using a handheld fluorometer, conduct further investigation if presence of optical brighteners is detected.

MS4s should use the thresholds listed above to make determinations whether an outfall requires additional investigation for illicit discharges. Outfalls that exceed at least one of the above thresholds should be investigated further using techniques described in the MS4s IDDE Plan.

As described in Section 2 of this QAPP, if the above thresholds are not exceeded, the MS4 may make the determination that the flow is from uncontaminated groundwater, water from a natural resource, or an allowable non-stormwater discharge.

9 List of Addenda

- 1. Example Data Collection Form and labels
- 2. Example Chains of Custody

10 References

Integrated Environmental Engineering. February 2021, *ISWG and SMSWG Stormwater Monitoring Program QAPP*, Revision 1.

U.S. EPA. September 1996, *The Volunteer Monitor's Guide to Quality Assurance Project Plans*, Document Number: 841-B-96-003.

Addendum 1

Example Field Data Collection and labels



STILLWATER ENVIRONMENTAL ENGINEERING, INC • PO Box 426, ORONO, ME 04473

MS4 Outfall Inspection Form

Outfall ID:	Date:	Location (I	.at./Long.):
Inspector:	Time:		
Time/ Quantity of Last	Precipitation (must be	< .25" in preceding	72hrs):
Current Air Temperatu	re/Weather Conditions	:	
Able to Inspect?			
⊖ Yes	\bigcirc No (Unable to locat	te) 🔷 No (Una	able to access, fencing, etc.)
🔿 No (Safety)	🔿 No (Other –	Describe)	
Outfall Type:			
	○ PVC ○ Iron		⊖ HDPE ○ Ditch
◯ Other (Desc	ribe)		
Outfall Diameter (If ap	plicable):	Receiving Water:	Flowing (Yes/No):
Flow Quantity:			
○ Trickle ○ N/A	O Minor Flow	Quarter Pipe	○ ≥ Half Pipe
Sampling Conducted:			
⊖ Yes	○ No (Describe why n	ot) 🔿 N/A – N	o Flow



Documented Field P	arameters	5:			
Barometric	Pressure	mm/Hg	Wate	er Temperature	e°C
рН		Chlorine	mg/L	Ammonia_	mg/L
Conductivity	/	µS/cm	Dissolved Ox	ygen	_mg/L
Analytic Samples Co	llected:				
🔿 E. Coli	⊖Sur	factants	🔿 Other (De	escribe)	
Illicit Discharge Indi	cators Pres	sent:			
🔿 Foam	ODis	colored Discharg	ge (Describe)	⊖ Excess A	Algae/Vegetation
◯ Trash/Flo	atables	◯ Sanitary Se	wer Solids	🔿 Unusua	l Odor (Describe)
◯ Oil Sheer	/Staining	⊖ None	🔿 Other (De	escribe)	
General Condition o	of Outfall:				
⊖Good	🔵 Fair		or		
Identified Defects:					
⊖ Erosion	⊖ Exc	ess Sediment Ac	cumulation	◯ Excess \	/egetation
⊖ Trash/De	bris Accun	nulation	⊖ Other (De	escribe)	○ None
Maintenance Follov	v-Up:				
◯ Yes (Deso	ribe)		⊖ N	0	



Maintenance Follow-Up Priority:

\cap	High
\cup	ingn

◯ Medium

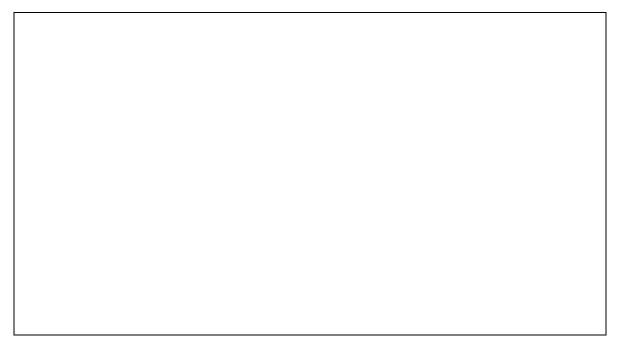
⊖ N/A

Photo Collected:

⊖ Yes

🔿 No (Describe)

Comments:



This set of labels was designed to be used with Avery 5366 labels, but you can use any labels.

Sampler:		Date:
Time:	Field ID:	
Sampler:		Date:
Time:		Date:
Sampler: Time:		Date:
Sampler:		Date:
Sampler:		
Sampler:		Date:
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Time:		Date:
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		<u></u>
Sampler:		
Time:	Field ID:	

Addendum 2

Example Chains of Custody

Laboratory Sample Chain of Custody

Client:		Contact: Phone #:						Email											
Add	ress:		City:		State:				Zip Code:										
Pur	chase Order #:		Proj. Name/No	.:				Quote #:											
Bill	(if different than above):			Addres	s:														
San	npler (Print/Sign):					Copies To:													
	LAB USE ONLY	Work Order #	#:			Analysis and Container Type Preservatives													
Rer	narks:					Filt. Y / N	Filt. Y / N	Filt. Y / N	Filt. Y / N	Filt.	Filt.	Filt. Y / N	Filt. Y / N	Filt. Y / N	Filt. Y / N				
	oping Info: ill No:	FEDEX	UPS	CLIEN	Т	.,	.,	.,						. ,	. ,				
	np C	Temp Blank	Intact	Not Inta	act														
*	Sample Description	Date/Time	Matrix	No	o. of														
		Collected	water/soil /other	Cont	ainers														
				1		1													
				1		1													
				1		1													
CO	MMENTS:		<u>I</u>	1		1	1	1	<u>. </u>	<u>I</u>	<u>I</u>	1	1	<u>. </u>	1				
Reli	nquished By:	Date/Time	Received By:		Relinqu	uished B	y:		Date/T	ime		Received By:							
Reli	nquished By:	Date/Time	Received By: Relinqu			uished By:			Date/T	ime		Received By:							



EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX:(856) 786-0262

Company :				EMSL-Bill to: Same Different If Bill to is Different please note in Comments**									
Street:			Th	ird Partv Billing	g requires written authorization from third party								
City:	s	tate/Province:		ostal Code:		untry:							
Report To (Name):			Fax #										
Telephone #:			E-ma	E-mail Address:									
Project Name/ Number	r:												
Please Provide Result	s: 🗌 Fax 🗌 E-mai	I PO#	ŧ	State Sam	ples Taken:								
	Turr	naround Time (TAT) Options*	- Please Che	ck								
3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 W													
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements.													
Fun	gi		Bacteria		I	nsects							
ERMI Panel (M180)	Dust Only	🗌 Human Ba	ncteroides (M19	9)	🗌 Bed Bug (<i>Ci</i> l	mex lectularius) (M146)							
🗌 EPA 36 Panel (M23	3) Air, Swab	Total Bact	teroides (M095)		☐ Tick - Anapla Anaplasmosis (as <i>ma pha</i> gocytophilum M261)							
Water Damage 20 F	Panel (M181)	🗌 <i>E. coli</i> 015	57:H7 (M140)		☐ Tick - <i>Babesia microti</i> Babesiosis (M260)								
🗌 Wood Rot Fungi 10	Panel (M232)	🗌 <i>E. coli</i> (M2	200)		Tick - Borrelia burgdorferi Lyme disease (M196)								
Aspergillus 15 Pan	el (M186)	Total Ente	erococcus (M09	6)	Other								
Aspergillus 6 Pane	I (M188)	Helicobac	ter pylori (M207	7)	🗌 Acanthamoeba spp. (M147)								
Penicillium 13 Pane	əl (M189)	🗌 Legionella	a pneumophila	(M103)	Cryptosporidium spp. (M237)								
Customized Fungi	Panel (M100)	🗌 Legionella	4 species-EPA	(M162)	🔲 <i>Giardia</i> spp. (M149)								
🗌 Penicillium Mycoto	xin 9 Panel (M190)	🗌 Legionella	Broad Screen	(M163)	Enterovirus RT-PCR (M142)								
Birds, Anima	l Droppings	🗌 MRSA (M2	203)		☐ Food Authentication (F130)								
🗌 Chlamydophila psi	ttaci (M234)	Mycobacte	erium avium (M	144)	GMO Analysis (F131)								
Cryptococcus neof	formans (M143)	Mycobacte	erium tubercule	osis (M159)	DNA Barcode Analysis (M195)								
🗌 Histoplasma capsu	latum (M208)	Pseudomo	onas aeruginos	a	DNA Sequencing Fungi/Bacteria Isolates (M192)								
Raccoon Roundwo	rm (M236)	🗌 Salmonella	<i>a</i> spp. (M141)		Special Request:								
🗌 Rodent (Mouse, Ra	t) Dropping (M271)	🗌 Shigella s	pp. (F122)										
Sample #	Sample Loo	cation	Sample Type	Test Code	Volume/Area	Date/Time Collected							
Client Sample # (s):	-				nples:								
Relinquished (Client):					Date:	Time:							
Received (Lab):					Date:	Time:							
Comments:													

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information



EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-0262

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
**Comments/Special	Instructions				
comments/Special					

Page _____ of ____ pages



Potential Illicit Discharge Response Procedures

In the case of a potential illicit discharge reported via the "hotline" or other means, follow the below procedures.

1. Process

- (a) Use the electronic complaint reporting form to collect the appropriate information from the caller. Then, transfer the information to the Stormwater Coordinator.
- (b) Promptly investigate all reported potential illicit discharges.
- (c) If an illicit discharge of unknown source is confirmed, follow the procedure in SOP-2 IDDE: Tracing Illicit Discharges (which can be found in **Appendix D.2** of this Plan).
- (d) If an illicit discharge known source is confirmed, follow the procedure in SOP-3 IDDE Illicit Discharge Source Removal (which can be found in **Appendix D.3** of this Plan.

2. Clean- up

(a) Clean or cause to be cleaned the catch basin, storm drain, outfall, or other storm sewer conveyance or initiate the appropriate spill response as needed.

3. Documentation

- (a) File all completed electronic forms (i.e. Call log, catch basins cleaning, storm drain cleaning) in the IDDE folder located in the City's electronic database.
- (b) Document any further action taken.

4. Review

• Review incidents reported by citizens or municipal employees on an annual basis to look for patterns of illicit discharges and to evaluate the call-in inspection program.



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Old Town Water District Standard Operating Procedure for Hydrant Flushing

The purpose of these Standard Operating Procedures for hydrant flushing within the Old Town Water District service areas is to minimize or eliminate the release of potential pollutants (chlorine, sediment, and soil erosion) from water and hydrant system flushing activities. The Old Town Water District will do this by the use of best management practices (BMP).

Compliance with Maine's MS4 requirements with the intent of meeting Maine's ambient water quality criteria will be based on the Environmental Protection Agency (EPA) approved method for measuring total residual chlorine (TRC). The detection level for compliance will be EPA's detection level of 50 ug/l (parts per billion) or 0.05 parts per million (PPM), provided that at the point of discharge there is a minimum of a 1:1 dilution factor.

The Old Town Water District performs its hydrant flushing activities once per year typically during late summer (August-October) and early fall. Hydrant flushing may occur in the spring if needed during the months of April and May.

Hydrant Flushing Discharges to the Penobscot and Stillwater Rivers with TRC in excess of 1.0 mg/l

Test the water coming from the hydrant for Total Residual Chlorine (TRC) prior to flushing.
 If the TRC in the water leaving the hydrant is less than 1.0 ppm, dechlorination is not required for a discharge to the Penobscot or Stillwater River. For discharges to other receiving waters see dechlorination procedure below.
 If the TRC in the water leaving the hydrant and entering the receiving water is greater than 1.0mg/l, then it will be dechlorinated to less than 1.0 mg/l.

4.) Use soil erosion controls as needed.

The following procedure shall be followed if dechlorination is needed based upon Maine's ambient water quality criteria:

a.) Attach dechlorination device to hydrant. (Hydrant mounted flush box, truck mounted flush box or similar device.)

- b.) Add dechlorination product to device (Sodium sulfite, ascorbic acid, calcium thiosulfate, etc.)
- c.) Start hydrant flush.
- d.) Test residual after dechlorination device.
- e.) Ensure residual is less than 0.05 ppm leaving the dechlorination device.

Erosion and Sedimentation Control During Flushing Activities

Discharge from hydrant flushing has the potential to erode, suspend and transport sediments to the storm water conveyance system. If the hydrant flushing water is not being directly discharged to a paved or other impervious surface the following steps may be used to prevent or lesson soil erosion:

- 1.) Direct flows to a sheet of plywood, rubber mat or tarp, and
- 2.) Use of hay bales or sand bags to reduce the velocity where necessary
- 3.) Closely monitor flow area for erosion and adjust erosion controls as needed.

For New Waterlines -

New waterlines are super chlorinated, flushed and dechlorinated by contractors.

Old Town Water District Standard Operating Procedure for Hydrant Flushing

Standard Hydrant Flushing Procedures

- 1.) Hydrant flushing water will be tested for Total Residual Chlorine (TRC) prior to flushing.
- 2.) If the water TRC is greater than .05 ppm entering the receiving water then dechlorinate to less than 0.05 ppm.3.) Use soil erosion controls as needed.

NOTE: Alternative methods of disposing of hydrant flushing water, if necessary: With the permission of the Old Town Pollution Control Facility Superintendent, flushing water can be discharged to the City sewer system by way of manholes, conveyed to an area with no discharge or hauled by tanker truck to the Old Town Water Pollution Control Facility for treatment.

Documentation for Each Hydrant Flushing Discharge to Surface Water

- 1.) Estimated or actual volume of water discharged
- 2.) Discharge duration.
- 3.) TRC at point of discharge
- 4.) Measures to control erosion and sedimentation
- 5.) Observations of any impacts resulting from discharge



SEE H Illicit Discharge Prioritization Criteria and Worksheet

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Table 2: Priority Area Screening Factors

Screening Factor	Retained or Eliminated	Rationale for Elimination
Receiving Water Status (Impaired areas, TMDLs with WLA, Poor dry weather receiving water quality)	Retained	
Density of Generating Sites	Retained	
Density of Stormwater Infrastructure	Retained	
Size of Subwatershed	Retained	
# Acres in Urbanized Area	Retained	
Average Development Age	Retained	
History of discharge complaints & knowledge of suspect discharges	Retained	
Density of Aging Septic Systems	Eliminated	Very few systems within urbanized area.
Sewer Conversion Status (CSO)	Retained	
Sewer Conversion (previously septic)	Eliminated	Urbanized area has historically been on City sewer system.



Table 2: Cont.

Screening Factor	Retained or Eliminated	Rationale for Elimination
Historic Industrial Operations	Retained	
Sewer Crossings/Common trench construction	Retained	
Type of Development	Retained	

																							Sc	ore
Drainage Area/ Subwatershed	Density of Gener Sites	ating	Density of Storm		Size of Subwater	rshed	# Acres in Urba Area	anized	Average Develop Age	oment	Receiving Water (drinking water beaches, shell impaired areas, with WLA	ter supply, History of discharge hellfish, complaints & knowledge as, TMDLS of suspect discharges					Historic Industrial Operations		gs/ ich า	Type of Developmen		Raw Score	Average IDP Score	
		Score		Score	Notes	Score	Notes	Score	Notes	Score	Notes	Score	Notes	Score	Notes	Score	Notes	Score	Notes	Score		Score		
Penobscot River	Mixture of low and high density development	2	Over 200 Catch Basins	3	838 Acres	3	280 Acres	3	1955	2	No to all	1	Ongoing IDDE Investigation	3	Unknown or not many issues	2	Paper Mill	3	Many sewer lines in close proximitiy to storm drains	3	Commercial, and mixture of high and low density residential	2	25	2.5
Stillwater River	Residential Area	2	54 Catch Basins	2	128 Acres	1	85 Acres	1	1911	3	No to all	1	Few known issues	1	Unknown or not many issues	2	No historic operations	1	Many sewer lines in close proximitiy to storm drains	3	Medium density residential	2	17	1.7
Unnamed Stream 1	Fields behind Umaine	1	0 Catch Basins	1	256 Acres	2	256 Acres	3	1919	3	No to all	1	Few known issues	1	Few known issues	1	No historic operations	1	No Crossings	1	Mostly undeveloped	1	15	1.5
Unnamed Stream 2	Low density residential	1	0 Catch Basins	1	128 Acres	1	128 Acres	2	1975	2	No to all	1	Few known issues	1	Few known issues	1	No historic operations	1	No Crossings	1	Low density residential	1	12	1.2
Unnamed Stream 3	Low density residential	1	2 Catch Basins	1	256 Acres	2	256 Acres	3	1926	3	No to all	1	Few known issues	1	Few known issues	1	No historic operations	1	Few Crossings	2	Low density residential	1	16	1.6
Unnamed Stream 4	High Density Residential	3	75 Catch Basins	2	192 Acres	1	192 Acres	2	1946	2	No to all	1	Few known issues	1	Unknown or not many issues	2	No historic operations	1	Many sewer lines in close proximitiy to storm drains	3	High density residential	3	19	1.9
Unnamed Stream 5	Residential and Commercial Area		Over 100 Catch Basins	3	512 Acres	3	256 Acres	3	1949	2	No to all	1	Past illicit discharge has been resolved	2	Unknown or not many issues	2	No historic operations	1	Many sewer lines in close proximitiy to storm drains	3	High density residential and commercial	3	24	2.4
Unnamed Stream 6	Mostly forested undeveloped areas	1	0 Catch Basins	1	256 Acres	2	85 Acres	1	1986	1	No to all	1	Few known issues	1	Few known issues	1	No historic operations	1	No Crossings	1	Mostly undeveloped	1	11	1.1
Unnamed Stream 7	Residential, Commercial and Farms		Over 100 Catch Basins	3	960 Acres	3	864 Acres	3	1955	2	No to all	1	Few known issues	1	Unknown or not many issues	2	No historic operations	1	Few Crossings	2	Medium density residential and commercial	2	20	2.0
Unnamed Stream 8	Residential Area	2	3 Catch Basins	1	64 Acres	1	64 Acres	1	1941	3	No to all	1	Few known issues	1	Few known issues	1	No historic operations	1	Few Crossings	2	Medium density residential	2	15	1.5
Unnamed Stream 9	Residential Area	2	7 Catch Basins	1	192 Acres	1	10 Acres	1	1904	3	No to all	1	Few known issues	1	Few known issues	1	No historic operations	1	Few Crossings	2	Medium density residential	2	15	1.5
											Category D	ofintion	·											
High (Score = 3)	High density, ur developmen		>100		Large (>500 Ac	res)	Large (>200 A	cres)	Old Developmen has not bee redeveloped (>75 old)	n	Has more than the following sta drinking water s beaches, shellfisl water quality, im areas, or TM	one of atuses: supply, h, poor npaired	Many known iss	sues	If converted fr combined sewers to 1990 or if loca an area is newla sewer (mixed sew septic system	s prior ted in ly on er and	Many industri operations or poll from past operat	lution	If a high numbe crossings are pre (100 or more), or sewer lines in cl proximity to storm lines.	esent many lose	Industrial sites, or density residen	-		
Medium (Score = 2)	Medium density development ~50-100 Medium (200-500 Acres) Medium (100-200 Acres)		0 Acres)	s) 35-75 years old		Has one of the following statuses: drinking water supply, beaches, shellfish, impaired areas poor water quality, or TMDLs		r Unknown or not many s, known issues		y Unknown or not many known issues		Few industrial operation or all previous operations closed		If a medium number of crossings are present (9 100), or there are not lot of sewer lines in clo proximity to storm dra lines.		nt (50- not a close Commercial sites or medium density residential								
Low (Score = 1)	Low density developmen		<50		Small (<200 Ac	res)	Small (<100 A	cres)	Newly develoj areas(<35 years		Not a drinking water supply, impaired area, no TMDLS, beaches, or shellfish		10 Few known issues		Few known issues		No historic industrial operations		If less than 50 crossings are present.		undeveloped of oper			



SEE I Non-Stormwater Discharge Ordinance

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Chapter 16 Article VIII Non-Storm Water Discharge Ordinance

Section 16-201. Purpose of this Article

A. Purpose. The purpose of this Non-Storm Water Discharge Ordinance (the "Ordinance") is to provide for the health, safety, and general welfare of the citizens of the Town/City of Old Town through the regulation of Non-Storm Water Discharges to the Municipality's Storm Drainage System as required by federal and State law. This Ordinance establishes methods for controlling the introduction of Pollutants into the Town/City's Storm Drainage System in order to comply with requirements of the federal Clean Water Act and State law.

Section 16-202. Objectives. The objectives of this Article are:

To prohibit unpermitted or unallowed Non-Storm Water Discharges to the Storm Drainage System; and

To set forth the legal authority and procedures to carry out all inspection, monitoring and enforcement activities necessary to ensure compliance with this Ordinance.

Section 16-203. Definitions

For the purpose of this Ordinance, the following shall mean:

a. Clean Water Act. The federal Water Pollution Control Act (33 U.S.C. § 1251 et seq., also known as the "Clean Water Act"), and any subsequent amendments thereto.

b. Discharge. "Discharge" means any spilling leaking, pumping, pouring, emptying, dumping, disposing or other addition to Pollutants to "waters of the State." "Direct discharge" or "point source" means any discernible, confined and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation or vessel or other floating craft, from which Pollutants are or may be discharged.

c. Enforcement Authority. The person(s) or department authorized under Section 16-205 of this Ordinance to administer and enforce this Ordinance.

d. Exempt Person or Discharge. Means any Person who is subject to a Multi-Sector General Permit for Industrial Activities, a General Permit for Construction Activity, a General Permit for the Discharge of Stormwater from the Maine Department of Transportation and the Maine Turnpike Authority Municipal Separate Storm Sewer Systems, or a General Permit for the Discharge of Stormwater from State or Federally Owned Authority Municipal Separate Storm Sewer System Facilities; and any Non-Storm Water Discharge permitted under a NPDES permit, waiver, or waste discharge license or order issued to the discharger an administered under the authority of the U.S. Environmental Protection Agency ("EPA") or the Maine Department of Environmental Protection ("DEP").

e. Industrial Activity. Activity or activities subject to NPDES Industrial Permits as defined in 40 CFR, Section 122.26(b)(14).

f. Municipality. The City of Old Town.

g. Municipal Separate Storm Sewer System, or MS4. "Municipal Separate Storm Sewer System" or ("MS4") means conveyances for storm water, including, but not limited to, roads with drainage systems, municipal streets, catchy basins, curbs, gutters, ditches, human-made channels or storm drains (other than publicly owned treatment works and combined sewers) owned or operated by any municipality, sewer or sewage district, fire district, State agency or Federal agency or other public entity that discharges directly to surface waters of the State.

h. National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit. This means a permit issued by the EPA or by the DEP that authorizes the discharge of pollutants to waters of the United States, whether the permit is applicable on an individual, group or general area-wide basis.

i. Non-Storm Water Discharge. Means any Discharge to an MS4 that is not composed entirely of Storm Water.

j. Person. Means any individual, firm, corporation, municipality, quasimunicipal corporation, State agency or Federal agency or other legal entity, which creates, initiates, originates or maintains a Discharge of Storm Water or a Non-Storm Water Discharge.

k. Pollutant. Means dredged spoil, solid waste, junk, incinerator residue, sewage, refuse, effluent, garbage, sewage sludge, munitions, chemicals, biological or radiological materials, oil, petroleum products or by-products, heat, wrecked or discarded equipment, rock, sand, dirt and industrial, municipal, domestic, commercial or agricultural wastes of any kind.

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I. Premises. Means any building, lot, parcel of land, or portion of land, whether improved or unimproved, including adjacent sidewalks and parking strips, located within the Municipality from which Discharges into the Storm Drainage System are or may be created, initiated, originated or maintained.

m. Regulated Small MS4. "Regulated Small MS4" means any Small MS4 regulated by the State of Maine "General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems" dated June 3, 2003 ("General Permit"), including all those located partially or entirely within an Urbanized Area (UA) and those additional Small MS4s located outside a UA that as of the issuance of the General Permit have been designated by the DEP as Regulated Small MS4s.

n. Small Municipal Separate Storm Sewer System, or Small MS4, means any MS4 that is not already covered by the Phase I MS4 stormwater program including municipally owned or operated storm sewer systems, State of federally-owned systems, such as colleges, universities, prisons, Maine Department of Transportation and Maine Turnpike Authority road systems and facilities, and military bases and facilities.

o. Storm Drainage System. The Municipality's Regulated Small MS4

p. Storm Water. Any Storm Water runoff, snowmelt runoff, and surface runoff and drainage; "Stormwater" has the same meaning as "Storm Water."

q. Urbanized Area ("UA"). "Urbanized Area" or "UA" means the areas of the State of Maine so defined by the latest decennial (2000) census by the U.S. Bureau of the Census.

Section 16-204. Applicability.

This Ordinance shall apply to all Persons discharging Storm Water and/or Non-Storm Water Discharges from any Premises into the Storm Drainage System.

Section 16-205. Responsibility for Administration.

The Code Enforcement Officer of a designate of the City Manager is the Enforcement Authority who shall administer, implement, and enforce the provisions of this Ordinance. The Public Works Director and any other Department Manager will assist the Code Enforcement Officer with these responsibilities, but the ultimate authority shall rest with the Code Enforcement Officer or designate.

Section 16-206. Prohibition of Non-Storm Water Discharges.

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a. General Prohibition. Except as allowed or exempted herein, no Person shall create, initiate, originate or maintain a Non-Storm Water Discharge to the Storm Drainage System. Such Non-Storm Water Discharges are prohibited. notwithstanding the fact that the Municipality may have approved the connections, drains or conveyances by which a Person Discharges unallowed Non-Storm Water Discharges to the Storm Drainage System.

b. Allowed Non-Storm Water Discharges. The creation, initiation, origination or maintenance of the following Non-Storm Water Discharges to the Storm Drainage System is allowed:

- Landscape irrigation; diverted stream flows; rising ground water; uncontaminated ground water infiltration (as defined at 40CFR 35.2005(20)); uncontaminated pumped ground water; uncontaminated flows from foundation drains; air conditioning and compressor condensate; irrigation water; flows from uncontaminated springs; uncontaminated water from crawl space pumps; uncontaminated flows from footing drains; lawn watering runoff; flows from riparian habitats and wetlands; residual street wash water (where spills/leaks of toxic or hazardous materials have not occurred, unless all spilled material has been removed and detergents are not used); hydrant flushing and fire fighting activity runoff; water line flushing and discharges from potable water sources; and individual residential car washing;
- 2. Discharges specified in writing by the Enforcement Authority as being necessary to protect public health and safety; and
- 3. Dye testing, with verbal notification to the Enforcement Authority prior to the time of the test.

c. Exempt Person or Discharge. This Ordinance shall not apply to an Exempt Persons or Discharge, except that the Enforcement Authority may request from Exempt Persons and Persons with Exempt Discharges a copies of permits, notices of intent, licenses and orders from the EPA or DEP that authorize the Discharge(s).

Section 16-206. Suspension of Access to the Municipality's Small MS4.

The Enforcement Authority may, without prior notice, physically suspend Discharge access to the Storm Drainage System to a Person when such suspension is necessary to stop an actual or threatened Non-Storm Water Discharges to the Storm Drainage System which present or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or to the Storm Drainage System, or which may cause the Municipality to violate the terms of its environmental permits. Such suspension may include, but is not limited to,

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blocking pipes, constructing dams or taking other measures, on public ways or public property, to physically block the Discharge to prevent or minimize a Non-Storm Water Discharges to the Storm Drainage System. If the Person fails to comply with a suspension order issued in an emergency, the Enforcement Authority may take such steps as deemed necessary to prevent or minimize damage to the Storm Drainage System, or to minimize danger to persons, provided, however, that in taking such steps the Enforcement Authority may only enter upon the Premises that is the source of the actual or threatened Non-Storm Water Discharge to the Storm Drainage System with the consent of the Premises' owner, occupant or agent.

Section 16-207. Monitoring of Discharges.

In order to determine compliance with this Ordinance, the Enforcement Authority may enter upon and inspect Premises subject to this Ordinance at reasonable hours with the consent of the Premises' owner, occupant or agent: to inspect the Premises and connections thereon to the Storm Drainage System; and to conduct monitoring, sampling and testing of the Discharge to the Storm Drainage System.

Section 16-208. Enforcement.

It shall be unlawful for any Person to violate any provision of or to fail to comply with any of the requirements of this Ordinance. Whenever the Enforcement Authority believes that a Person has violated this Ordinance, the Enforcement Authority may enforce this Ordinance in accordance with 30-A M.R.S.A. § 4452.

- **a.** Notice of Violation. Whenever the Enforcement Authority believes that a person has violated this Ordinance, the Enforcement Authority may order compliance with this Ordinance by written notice of violation to that Person indicating the nature of the violation and ordering the action necessary to correct it, including, without limitation:
 - 1. The elimination of Non-Storm Water Discharges to the Storm Drainage System;
 - 2. The cessation of discharges, practices, or operations in violation of this Ordinance.
 - 3. At the Person's expense, the abatement or remediation (in accordance with best management practices in DEP rules and regulations) of Non-Storm Water Discharges to the Storm Drainage System and the restoration of any affected property; and/or
 - 4. The payment of fines, of the Municipality's remediation costs and of the Municipality's reasonable administrative costs and attorney's fees and costs.

b. Penalties/Fines/Injunctive Relief. Any Person who violates this Ordinance shall be subject to fines, penalties and orders for injunctive relief and shall be responsible for the Municipality's attorney's fees and costs, all in accordance with 30-A M.R.S.A. § 4452. Each day such violation continues shall constitute a separate violation. Moreover, any Person who violates this Ordinance also shall be responsible for any and all fines, penalties, damages and costs, including, but not limited to attorney's fees and costs, incurred by the Municipality for violation of federal and State environmental laws and regulations caused by or related to the Person's violation of this Ordinance; this responsibility shall be in addition to any penalties, fines or injunctive relief imposed under this Section.

c. Consent Agreement. The Enforcement Authority may, with the approval of the municipal officers, enter into a written consent agreement with the violator to address timely abatement of the violation(s) of this Ordinance for the purpose of eliminating violations of this Ordinance and of recovering fines, cost and fees without court action.

d. Appeal of Notice of Violation. Any person receiving a Notice of Violation or suspension notice may appeal the determination of the Enforcement Authority to the City of Old Town Zoning Board of Appeals in accordance with the Board of Appeals Ordinance Section 107 of the Zoning Ordinance. The notice of appeal must be received within 30 days from the date of the Notice of Violation. The Board of Appeals shall hold a de wovo hearing on the appeal within 30 days from the date of receipt of the notice of appeal. The Board of Appeals may affirm, reverse or modify the decision of the Enforcement Authority. A suspension under Section 6 of this Ordinance remains in place unless or until lifted by the Board of Appeals or by a reviewing court. A party aggrieved by the decision of the Board of Appeals may appeal that decision to the Maine Superior Court within 45 days of the date of the Board of Appeals decision pursuant to Rule 80B of the Maine Rules of Civil Procedure.

e. Enforcement Measures. If the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation, or, in the event of an appeal, within 45 days of the decision of the municipal Board of Appeals upholding the decision of the Enforcement Authority, then the Enforcement Authority may recommend to the municipal officers that the town attorney file an enforcement action in a Maine court of competent jurisdiction under Rule 80K of the Maine Rules of Civil Procedure.

f. Ultimate Responsibility of Discharger.

The standards set forth herein are minimum standards; therefore this Ordinance does not intend nor imply that compliance by any Person will ensure that there

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will be no contamination, pollution, nor unauthorized discharge of Pollutants into waters of the U.S. caused by said Person. This Ordinance shall not create liability on the part of the Municipality, or any agent or employee thereof for any damages that result from any Person's reliance on this Ordinance or any administrative decision lawfully made hereunder.

Section 16-209. Severability.

The provisions of this Ordinance are hereby declared to be severable. If any provision, clause, sentence, or paragraph of this Ordinance or the application thereof to any person, establishment, or circumstances shall be held invalid, such invalidity shall not affect the other provisions, clauses, sentences, or paragraphs or application of this Ordinance.

Section 16-210. Basis.

The City of Old Town enacts this Non-Storm Water Discharge Ordinance (the "Ordinance") pursuant to 30-A M.R.S.A. § 3001 (municipal home rule ordinance authority), 38 M.R.S.A. § 413 (the "Wastewater Discharge Law"), 33 U.S.C. § 1251 et seq. (the "Clean Water Act"), and 40 CFR part 122 (U.S. Environmental Protection Agency's regulations governing the National Pollutant Discharge Elimination System ("NPDES")). The Maine Department of Environmental Protection, through its promulgation of the "General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems" dated June 3, 2003, has listed the City of Old Town as having a Regulated Small Municipal Separate Storm Sewer System ("Small Ms4"); under this General Permit, listing as a Regulated Small Ms4 necessitates enactment of this Ordinance as part of the Municipality's Storm Water Management Program.

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SEE C Construction Site Inspection Form

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City of Old Town Construction Site Inspection Form							
Permit Number:	Site Contractor:						
Site Name:	Date/Time:		Inspected By:				
Address/Watershed:							
Last Rain Date/Quantity:			Area Disturbed:				
Reason for Inspection:	I 🗆 Routir	ne 🗆 Final	🗆 Rain Event	Complaint			
Project Description:							
		YES/NO/NA	COMMEI	NTS			
1. Is an Erosion and Sediment Cor available and being followed?	ntrol Plan						
2. Is a weekly inspection log availa date (if required)?							
3. Are all erosion control practices installed properly, maintained, and functioning?							
Areas at finished grade are properly							
Concentrated flow inlet/outlet protect							
Disturbed dormant areas stabilized							
Entrance/exits properly stabilized							
Slopes and stockpiles properly stabil							
Other							



	YES/NO/NA	COMMENTS					
4. Are all sedimentation control practices installed properly, maintained, and functioning?							
Construction entrance							
Dust control practices							
Sedimentation basins/traps/diversions							
Perimeter controls							
Check dams							
Other							
5. Are ESC measures, construction activities, and	d housekeepin	g adequately maintained?					
Sedimentation/erosion in ditches							
Tracked sediment or dust at exits							
Hazardous material storage and spill control practices adequate							
Waste management (concrete/paint washout, solid waste, sanitary waste, hazardous waste, etc.) adequate							
Other							





	YES/NO/NA	COMMENTS				
6. Violation, Corrective Actions, Recommendations						
Sediment/pollutants discharged from site						
Natural resource impacts						
Corrective action required						
Site compliant with all permits						
Notice of violation or stop work order issued						
Comments/Corrective Actions (complete corrective actions before the next rain event and within 7 days)						

Attach any photos taken at the time of inspection to this document.



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MS4 Catch Basin Inspection Form

Catch basin ID:		Date:		Location (Lat./Long.):		
Inspector:		Time	:			
Able To Inspect?						
⊖ Yes	◯No	(Unable to loca	ite) (○ No (Unable	to access, fencing, etc.)	
🔿 No (Safet	:y)	🔿 No (Other – Describ				
Condition						
⊖Good		⊖ Fair	(Poor		
Defects						
🔿 Loose Bri	cks	○ Cracked Grout) Frame Crack	ked O Erosion	
	t Cracked	⊖ Severe Str	uctural Crac	cks Oth	er (Describe)	
○ None						
Sump Depth (Feet):		Silt Depth (Feet):		≥50% of Sump Depth? (Yes/No):		
Flow Description:						
○ None	⊖ Tric	kle 🔿 M	oderate	⊖ Significa	nt O Intermittent	
\bigcirc Flooded	◯Oth	◯ Other (Describe)				
Water Condition						
◯ Clear	OMu	rky	⊖ Litter		○ Odor (Describe)	
○ Vegetatio	○ Vegetation (Describe)				◯ Oil Sheen	
○ Pet Wast	e	⊖ Foam	🔿 Sanita	ary Sewer Solid	łs	
🔿 Other (D	○ Other (Describe)					



Follow-Up:

⊖ Yes (Descr	ibe)			⊖ No
Follow-Up Priority:	O • • • •		0	
⊖ High	O Medium	OLow	○ N/A	
Photo Collected:				
⊖ Yes				

Comments:



An electronic version of the 2022 MS4 General Permit can be found at the below link. This permit is also available in the City's electronic data management system.

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

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NOTICE OF INTENT TO COMPLY WITH MAINE GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

PLEASE TYPE OR PRINT IN BLACK INK ONLY

PERMITTEE INFORMATION									
MS4 Enti	ty	City of Old Town				Permittee ID #	MER041020		
elected of	Name and title of chief elected official or principal executive officer William Mayo, City Manager								
Mailing A	ddress	265 Main Street							
Town/City	/	Old To	Old Town State Maine Zip Code 04468						
Daytime I	Phone	(207) 8	327-3965	Email	bmayo@olo	d-town.org			
PRIMAR	Y CONTACT PERS	ON FOR C	OVERALL STORMWATER	MANAG	EMENT PROG	RAM (if different ti	nan PEO/CEO)		
Name and	d Title	John R	Rouleau, Public Work	s Dire	ctor				
Mailing A	ddress	265 Ma	ain Street						
Town/City	/	Old To	wn	State	Maine	Zip Code	04468		
Daytime F	Phone	(207) 8	327-3974	Email	jrouleau@o	ld-town.org			
STORMWATER MANAGEMENT PLAN (SWMP)									
Urbanized	d Area (sq. mi.)	~10 Sq	uare Miles						
			ordinances, SOPs, forms.						
			ies to which the regulated sr						
			stormwater from the regulat						
			-wide bacteria T			nuonai sneets as n	-cessary).		
CERTIFIC									
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.									
Signature	of Permittee	Wil	lian J. Mayo			Date 3	25/21		
This NOI registration form must be filed with the Department at the following address: Stormwater Program Manager Maine Department of Environmental Protection Bureau of Water Quality 17 State House Station Augusta ME 04333-0017 <u>Rhonda.Poirier@maine.gov</u>									
OFFICE USE ONLY									
Date Recieved		Staff			Date Accepted		ate Not ccepted		

Legal Notices

NOTICE OF INTENT (NOI)

The Municipality of Old Town will file a Notice of Intent (NOI) to comply with the Maine General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems issued 10/15/2020 (MER041000 W009170-5Y-C-R) and an associated Stormwater Management Plan (SWMP) with the Maine Department of Environmental Protection. The NOI and SWMP will be filed on or about **March 31, 2021**. A copy may also be seen at the Old Town municipal offices and on the municipal website: <u>URL: http://www.old-town.org/</u>.

The DEP will review the submittal and assess if it is complete for processing within 60 days of submittal. Once it has been deemed complete for processing, it will be made available on the Maine DEP website for 30-day public comment: <u>https://www.maine.gov/dep/comment/index.html</u>. A request for public hearing or request that the Board of Environmental Protection assume jurisdiction over this application must be received by the DEP, in writing, no later than 20 days after the application is found acceptable for processing. Requests must indicate the interest of the person filing the request and specify the reasons why a hearing is warranted. Unless otherwise provided by law, a hearing is discretionary and may be held if the Commissioner or the Board finds significant public interest or there is conflicting technical information.

The NOI and SWMP are also available for viewing at the DEP Office in Augusta <u>by scheduled</u> <u>appointment</u> during normal business hours during the pandemic. Written public comments or requests for information may be made to the Division of Water Quality Management, Department of Environmental Protection, State House Station #17, Augusta, ME 04333- 0017; telephone (207) 592-6233 and must include the name of the municipality filing the NOI and the Permit number provided above.

March 25, 2021