



PERMIT YEAR 3 ANNUAL REPORT
2013-2018 MUNICIPAL SEPARATE STORM SEWER SYSTEM
PERMIT

FOR

TOWN OF CUMBERLAND, MAINE

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SECTION 1 INTRODUCTION

Overview of Regulatory Program

The Town of Cumberland is subject to the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (heretofore referenced as the "General Permit") which was issued by the Maine Department of Environmental Protection (DEP) on July 1, 2013. The General Permit authorizes the direct discharge of stormwater from or associated with a regulated small municipal separate storm sewer system ("MS4") to another MS4 or to waters of the State other than groundwater.

This document constitutes the annual report for Permit Year 3 of the five-year permit cycle from 2013 to 2018 as required by Part IV Section J Reporting and Record Keeping of the MS4 General Permit.

The following table provides a listing of the annual report requirements provided in the General Permit, and the Town of Cumberland status:

Annual Report Requirement	Cumberland Status
a. The status of compliance with permit conditions based on the Stormwater Program Management Plan, an assessment of the appropriateness of identified best management practices (BMPs), progress toward achieving identified measurable goals for each of the MCMs, and progress toward achieving the goal of reducing the discharge of pollutants to the Maximum Extent Practicable.	<p>The Town is in compliance with the Permit Conditions based on the Stormwater Program Management Plan (revised 4/3/2014) approved by the Maine DEP on 4/4/2014.</p> <p>Section 2 of this annual report contains the details of the Town's progress on the measurable goals for each of the MCMs. The Town is reducing the discharge of pollutants to the Maximum Extent Practicable.</p> <p>The BMPs identified in the Town's Plan are still appropriate except as noted in Section 2 of this annual report.</p>
b. Results of information collected and analyzed, including monitoring data, if any, during the reporting period.	<p>No wet weather monitoring data was collected by the Town during Permit Year 3.</p> <p>Any monitoring data collected as a result of illicit discharge investigations is described in Minimum Control Measure 3.</p>
c. A summary of the stormwater activities the town intends to undertake pursuant to its Plan during the next reporting cycle.	<p>Section 2 of this annual report includes the BMPs and measurable goals identified in the Stormwater Program Management Plan that will be implemented in subsequent years.</p>
d. A change in any identified BMPs or	<p>Changes to the BMPs or measurable goals are</p>

measurable goals that apply to the Plan.	identified in Section 2, where the progress is reported.
e. A summary describing the activities, progress, and accomplishments for each of the MCMs (including such items as the status of education and outreach efforts, public involvement activities, stormwater mapping efforts, dry weather inspections, detected illicit discharges, detected illicit connections, illicit discharges that were eliminated, construction site inspections, number and nature of enforcement actions, post construction BMP status and inspections, and the status of the town's good housekeeping/pollution prevention program).	Section 2 of this annual report contains the details of the Town's progress on the measurable goals for each of the BMPs.

SECTION 2 PROGRESS ON MINIMUM CONTROL MEASURES

MCM 1 Public Education and Outreach

The Town is fulfilling the requirements for Public Education and Outreach through participation in the ISWG and the permittee's provision of funding to the ISWG for Public Education and Outreach services.

MCM Goals

1. To raise awareness that polluted stormwater runoff is the most significant source of water quality problems for Maine's waters;
2. To motivate people to use BMPs which reduce polluted stormwater runoff; and
3. To reduce polluted stormwater runoff as a result of increased awareness and utilization of BMPs.

Responsible party (for all MCM 1) - Public Services Director (with implementation assistance by ISWG education coordinator)

BMP 1.1: Continue Awareness Outreach Efforts.

Measurable Goal 1.1.1 – In Permit Year 1, the ISWG will implement awareness activities outlined in the revised Statewide Awareness Plan. Activities include:

- Maintain a link to www.thinkblumaine.org on municipal website;
- Participate in a statewide media campaign to include 12 months of television advertisements and 12 months of online advertisements that direct to www.thinkblumaine.org; and
- Promote their approved public event (see BMP 2.2 Host Public Events).

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	Documentation of the statewide media campaign is described in BMP 1.2 Update and Implement Public Statewide Awareness Plan. Documentation of promotion of the public event is described in BMP 2.2 Host Public Event. A link to the thinkblumaine.org website is posted on the public services web page.	None
2	Same as Permit Year 1 The link to the thinkblumaine.org website is posted here: http://cumberlandmaine.com/government/departments/public-services/cumberland-stormwater-pagenbspwhat-is-	None

Permit Year	Description of Progress	Changes
	stormwater-pollution-did-you-know-that-stormwater-pollution-is-one-of-the-leading-causes-of-water-quality-problems-in-the-state-of-mainestormwater/	
3	Same as Permit Year 2.	None
4		
5		

BMP 1.2: Update and Implement Public Stormwater Awareness Plan.

- Measurable Goal 1.2.1 – By December 2, 2013 submit a Stormwater Awareness Plan to raise awareness of stormwater issues such as the path stormwater runoff takes, sources of stormwater pollution and the impact that polluted stormwater runoff has in the community(s). The plan will identify:
- the target audience;
 - the outreach tool(s) to be used;
 - the message;
 - the distribution system;
 - the time line and implementation schedule;
 - the person(s) responsible for implementation;
 - an impact evaluation protocol;
 - a plan modification protocol (this must include DEP approval of significant plan modifications); and
 - the goals (e.g., the targeted level of change sought as a result of the education and outreach effort; specific measurable goals for plan implementation).

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The ISWG education coordinator prepared a plan on behalf of all of the MS4 communities in the state. The ISWG education coordinator received an extension from 12/2/2013 to 12/16/2013 for submittal of the Draft Public Stormwater Awareness Plan. The ISWG education coordinator provided the draft plan to the Maine DEP on 12/16/2013. The Maine DEP provided comments to the ISWG education coordinator on 12/20/2013. The ISWG education coordinator revised the document and resubmitted it to the Maine DEP on 1/10/2014. The Maine DEP approved the plan on 1/15/2014.	Dates were reported incorrectly during Permit Year 1 and were corrected for Permit Year 2 Annual Report.
2	No work required or completed this Permit Year.	None
3	No work required or completed this Permit Year.	None
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Measurable Goal 1.2.2 – Unless DEP responds in writing or verbally otherwise, then as of February 1, 2014 the Stormwater Awareness Plan is considered approved and implementation of the Stormwater Awareness Plan will begin within one week of approval.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	<p><i>Television advertising</i></p> <p>The ISWG education coordinator coordinated a television and online media campaign through Time Warner Cable on behalf of ISWG. The ducky and devil ducky ads ran two weeks per month from March through June 2014. The ads were shown on cable television stations most likely to reach the target audience (e.g. HGTV, The Weather Channel, ESPN, Fox News, DIY).</p> <p>The following television campaign data were provided by Time Warner Cable:</p> <p>Ducky 1 – 824 runs Devil Duck – 1240 runs Total – 2064 runs Estimated reach: 35.9% Estimated Frequency: 3.8</p> <p><i>Online advertising</i></p> <p>The ISWG education coordinator developed online ads with a clean water message that directed to www.ThinkBlueMaine.org. Time Warner Cable placed the ads on websites most likely to reach the target audience (e.g. local and national news websites, outdoor-themed sites). The online ad campaign ran continuously from March through June 2014.</p> <p>The following online campaign data were provided by Time Warner Cable: 701,137 impressions were run Click through rate = 0.04% (on par with national average).</p> <p>Based on analytical software installed on the Think Blue Maine website, hits during the online media campaign increased 72% over the previous four month period. Between March and June 2014, hits to www.ThinkBlueMaine.org equaled 1,365. Hits between November 2013 and February 2014 equaled 794.</p>	None
2	<i>Television advertising</i>	None

Permit Year	Description of Progress	Changes
	<p>CCSWCD coordinated a statewide television and online media campaign through Time Warner Cable. The original ducky and devil ducky ads ran two weeks per month from August through October 2014 in PY2. The ads were shown on cable television stations most likely to reach the target audience (e.g. HGTV, The Weather Channel, ESPN, Fox News, DIY).</p> <p>The following television campaign data were provided by Time Warner Cable:</p> <p>Total – 762 runs Estimated reach: 23.65% Estimated Frequency: 2.4</p> <p><i>Online advertising</i> CCSWCD developed online ads with a clean water message that directed to www.ThinkBlueMaine.org. Time Warner Cable placed the ads on websites most likely to reach the target audience (e.g. local and national news websites, outdoor-themed sites). The online ad campaign ran continuously from August through October 2014.</p> <p>The following online campaign data were provided by Time Warner Cable: 383,872 impressions were run Click through rate = 0.05% (national average is 0.04%).</p> <p>Based on analytical software installed on the Think Blue Maine website, hits during the online media campaign increased 68% over the same three month period in 2013. Between August and October 2014, there were 1,127 visits to www.ThinkBlueMaine.org. Between August and October 2013, there were 672 visits, which is almost a twofold increase in Permit Year 2.</p>	
3	<p><i>Television advertising</i> CCSWCD coordinated a statewide television and online media campaign through Time Warner Cable. The original ducky and devil ducky ads ran two weeks per month from March through June 2016 in PY3. The ads were shown on cable television stations most likely to reach the target audience (i.e., homeowners, aged 35-55, in Maine's 30 MS4 communities), including: AMC, Animal Planet, CNN, Discovery, ESPN, Food Network, Freeform (formally ABC Family), FX, Fox News, HGTV, NESN, National Geographic, Nickelodeon, Outdoor Network, The Weather Channel.</p>	None

Permit Year	Description of Progress	Changes
	<p>The following television campaign data were provided by Time Warner Cable:</p> <p>Total – 525 runs Estimated reach: 52% Estimated Frequency: 4.3</p> <p><i>Online advertising</i> CCSWCD developed online ads with a clean water message that directed users to the Think Blue Maine website. Time Warner Cable placed the ads on websites most likely to reach the target audience (e.g. local and national news websites, outdoor-themed sites). The online ad campaign ran continuously from March through June 2016. The average number of impressions⁴ for two-day periods throughout the online ad campaign was approximately 4,500. Time Warner Cable also placed a full-screen advertisement and link to www.ThinkBlueMaine.org on their webmail login screen for a specified two-day period in March. During this time period, ad impressions spiked to nearly 32,000.</p> <p>The following online campaign data were provided by Time Warner Cable:</p> <p>628,789 impressions were run Click through rate = 0.22% (national average is 0.04%).</p> <p>Based on analytical software installed on the Think Blue Maine website, hits during the online media campaign were more than five times higher than hits during the same three-month time period in 2015 when the online ad campaign was inactive. Between March and June 2016, there were 3,347 visits to the Think Blue Maine website. Between March and June 2015, there were 614 visits.</p>	
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BMP 1.3: Develop and Implement Municipal Permit Stormwater Awareness Plan.

Measurable Goal 1.3.1 – By January 6, 2014 submit a Permit Awareness Plan to raise awareness of stormwater issues including MS4 permit requirements from municipal employees, elected officials and volunteers within municipal government. The plan will identify:

- a) the target audience;
- b) the outreach tool(s) to be used;
- c) the message;

- d) the distribution system;
- e) the time line and implementation schedule;
- f) the person(s) responsible for implementation;
- g) an impact evaluation protocol;
- h) a plan modification protocol (this must include DEP approval of significant plan modifications); and
- i) the goals (e.g., the targeted level of change sought as a result of the education and outreach effort; specific measurable goals for plan implementation).

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The ISWG education coordinator submitted a draft Municipal/Permit Awareness Plan on behalf of the ISWG communities on 2/7/2014. The ISWG education coordinator received comments from the Maine DEP on 3/14/2014. The ISWG education coordinator revised the document and resubmitted it to the Maine DEP on 3/28/2014. The Plan was approved by the Maine DEP on 4/28/2014.	None
2	No work required or completed this Permit Year.	None
3	No work required or completed this Permit Year.	None
4		
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Measurable Goal 1.3.2 – Unless DEP responds in writing or verbally otherwise, then as of March 1, 2014 the Permit Awareness Plan is considered approved and implementation of the Permit Awareness Plan will begin within one week of approval. A more detailed schedule for raising awareness of the permit will be included as part of the Permit Awareness Plan.

Reporting: Review of the Permit Awareness Plan will be included in every Annual Report. The review will include process and impact indicators as outlined in the Permit Awareness Plan. In permit year five an analysis of the process and impact indicators of the Permit Awareness Plan will be provided.

Responsible Party – Public Services Director (with implementation assistance by ISWG Education Coordinator)

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The Plan's PY1 activities and the progress completed for each activity is described below: <i>Develop standard PowerPoint presentation that is easily tailored to target municipalities.</i> – The ISWG education	The survey of awareness is being developed and will be carried

Permit Year	Description of Progress	Changes
	<p>coordinator prepared a draft template for presentations to the audiences described in the fact sheets, for the topics provided in the fact sheet.</p> <p><i>Develop fact sheets about permit requirements and compliance for elected officials and municipal managers/directors; provide to ISWG reps for inclusion in information packets for newly elected officials.</i> – Fact sheets were developed and provided to the Maine DEP for comment on 7/14/2014. The Maine DEP provided comments on 7/16/2014.</p> <p><i>Develop talking points for use when meeting with newly elected officials; provide to ISWG reps for use when meeting with newly elected officials.</i> - Talking points for newly elected municipal officials will be finalized upon completion of the municipal fact sheets.</p> <p><i>Provide regional good housekeeping/pollution prevention training for municipal staff.</i> Training was provided at the APWA Highway Congress 6/5/2014. Two (2) Cumberland public works employees attended.</p> <p><i>Provide display or demonstration at APWA's Highway Congress.</i> CCSWCD provided an educational display about proper vehicle washing at APWA's annual Highway Congress, held on June 6, 2014.</p> <p><i>Develop and carry out annual survey of ISWG municipal representatives (or other relevant municipal staff) to gauge level of awareness.</i> The ISWG education coordinator is in the process of developing a survey for ISWG representatives to determine their municipal councils' awareness of their stormwater program. The survey will be finalized and administered to ISWG representatives in PY2.</p> <p>Cumberland's municipal outreach is scheduled for Permit Year 4.</p>	out in Permit Year 2.
2	<p>ISWG prepared a Fact Sheet summarizing the MS4 General Permit and Town Board and staff responsibilities. The Fact Sheet was shared with the Town Council on June 15, 2015.</p> <p>ISWG also prepared a poster entitled "Clean Water is Everyone's Job". The poster will be distributed in PY 3.</p> <p>The Public Services Administrative Assistant provided an overview of the Town's Stormwater Program and reviewed</p>	None

Permit Year	Description of Progress	Changes
	<p>the Fact Sheet with the Council at the meeting.</p> <p>CCSWCD coordinated with each of the 14 ISWG representatives to finalize a survey to determine their municipal councils' awareness of their stormwater program. PY2 results will be compared to future years' data.</p>	
3	<p><i>Permit Awareness materials:</i> CCSWCD modified the "Clean Water is Everyone's Job" poster that was developed in PY2 to create a tri-fold brochure for distribution at annual trainings and events (e.g. Highway Congress). Similar to the poster, the brochure outlines important good housekeeping and pollution prevention practices, including proper vehicle washing, chemical storage, and spill response.</p> <p><i>Council Presentation:</i> A presentation on the MS4 program was given to Town Council on 6/21/2016</p> <p><i>Partner Organization Presentation:</i> ISWG/CCSWCD partnered with BASWG, MaineDOT, and the Long Creek Watershed Management District to provide a winter maintenance roundtable (9/10/2015) for municipal public works staff. The day-long event provided an introduction to the new Maine Winter Maintenance BMP Manual, training on winter maintenance operations outlined in the manual, winter maintenance case studies, and a roundtable discussion. Two people attended from the Town of Cumberland.</p> <p><i>Maine Stormwater Conference:</i> The Public Services Administrative Assistant attended the conference.</p> <p><i>Survey:</i> The CCSWCD administered a survey to ISWG representatives to assess municipal awareness in their Town. Generally, the responses show for the ISWG group: the Town/City Council as a whole knows that the municipality has an MS4 permit, that the majority of the Councilors or Selectmen are aware of the Permit, and that Code Enforcement, Planning, Engineering (if applicable), Public Safety, Parks and Recreation and Public Services has a role in MS4 compliance, and the Town/Councilors/Selectmen are aware there are consequences associated with non-compliance. These results are improved over last year's results.</p>	
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BMP 1.4: Continue Targeted BMP Adoption efforts from previous MS4 permit cycle.

Measurable Goal 1.4.1 – In Permit Year 1, the ISWG will continue BMP adoption activities carried out in Permit Year 5 of the BMP Adoption Plan. Activities include:

- Providing a minimum of six adult education classes throughout the ISWG region per year;
- Work with a minimum of 21 retail locations to provide healthy lawn care education to consumers;
- Maintain the YardScaping website hosted on CCSWCD's website; and
- Provide information to targeted neighborhoods via direct mail, neighborhood canvassing, socials or other means.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The items listed under this BMP and Measurable Goal are effectively the same as those listed under BMP 1.5 Measurable Goal 1.5.2 and therefore progress is reported under Measurable Goal 1.5.2.	None
2	Same as Permit Year 1	None
3	Same as Permit Years 1 and 2	None
4		
5		

BMP 1.5: Update and Implement BMP Adoption Plan

Measurable Goal 1.5.1 – By November 1, 2013 submit a plan to encourage targeted audience to adopt or practice specific BMPs that will reduce stormwater pollution. The Plan will include:

- a) the BMP;
- b) the target audience;
- c) the outreach tool(s) to be used;
- d) the message;
- e) the distribution system;
- f) the time line;
- g) the person(s) responsible for implementation;
- h) an impact evaluation protocol;
- i) a plan modification protocol; and
- j) the targeted level of change as a result of the outreach effort (specific measurable goals for plan implementation).

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The ISWG education coordinator revised the Targeted Best Management Practices Adoption Plan developed under the 2008 permit. The Plan was submitted to Maine DEP on October 31, 2013. The revised Plan was submitted on December 20, 2013 and notice of plan approval was received on January 15, 2014.	None
2	No work required or completed this Permit Year.	None
3	No work required or completed this Permit Year.	None
4		
5		

Measurable Goal 1.5.2 – Unless DEP responds in writing or verbally otherwise, then as of January 15, 2014 the BMP Adoption Plan is considered approved and implementation of the Plan will begin.

Reporting – A review of BMP Adoption Plan will be included in every Annual Report. The review will include process and impact indicators as outlined in the BMP Adoption Plan. In Permit Year 5 an in-depth assessment of both the implementation and the impact of the BMP Adoption Plan will be provided.

A refined schedule for BMP adoption was included in the BMP Adoption Plan.

The following is a summary of the activities completed for this Measurable Goal for Permit Year 3. There were no changes to the Measurable Goal.

Point of Sale

Retain 21 Point of Sale locations in the ISWG communities	complete	The ISWG YardScaping Point of Sale Program continued to be maintained at more than the 21 locations required. Twenty-two stores participated in PY3, with one store declining to participate in PY3. The distribution of the stores in PY3 is as follows:
		Biddeford: 1
		Cape Elizabeth: 0
		Cumberland: 1
		Falmouth: 2
		Freeport: 1
		Gorham: 2
		Old Orchard Beach: 0
		Portland: 3
		Saco: 1
		Scarborough: 1
		South Portland: 3

		Westbrook: 2
		Windham: 3
		Yarmouth: 2
Maintain Point of Sale program in Home Depot stores within ISWG communities	complete	The ISWG YardScaping Point of Sale program continued to be maintained in the four Home Depot stores located in ISWG municipalities (Biddeford, Portland, South Portland, and Windham). Program components include a staff training, distribution of educational materials to the general public, and an educational event for customers at each store.
Adult Education		
Offer a minimum of seven adult education events per year on YardScaping practices	complete	<p>Once again, the number of YardScaping educational events offered in the ISWG municipalities far exceeded the minimum on the Plan. In PY3, 12 YardScaping events were provided as follows:</p> <p>Portland: 9/12/15, Greenfest, 63 participants</p> <p>Scarborough: 9/17/2015, adult education class, 12 participants</p> <p>Yarmouth: 9/22/2015, adult education class, 2 participants</p> <p>Biddeford: 10/19/2015, adult education class, 10 participants</p> <p>Scarborough: 3/29/2016, adult education class, 7 participants</p> <p>Portland: 4/4/2016, Home Depot staff training, 4 participants</p> <p>Biddeford: 4/7/2016, Home Depot staff training, 1 participant</p> <p>South Portland: 5/2/2016, Home Depot staff training, 14 participants</p> <p>Windham: 5/7/2016, Home Depot community education event/staff training, 14 participants</p> <p>Portland: 5/14/2016, Home Depot community education event/staff training, 16 participants</p> <p>Yarmouth: 5/14/16, Yarmouth Public Works Open House, 32 participants</p> <p>Biddeford: 5/14/2016, Home</p>

		Depot community education event/staff training, 27 participants
Promote adult education classes	complete	Information on YardScaping classes was published in local adult education brochures, via direct mail, using social media, and through host locations.
Track behavior change	complete	CCSWCD staff documented class evaluations and contacted past adult education class participants to determine which YardScaping practices were implemented. Please see summary of behavior change reported by participants of PY2 classes, as well as those practices participants of PY3 classes intend to implement below.

Adult Education Behavior Change Tracking

During the fall of 2015, phone calls were made to participants of YardScaping adult education classes held in the fall of 2014 and spring of 2015 in order to determine class participants' level of implementation of the YardScaping practices. Follow up phone calls are made six months to one year after the class to allow participants a growing season to implement the recommended practices. Our follow-up provided an anticipated rate of compliance for the YardScaping practices that class participants intended to implement.

Permit Year 2 Post-Class Evaluations			
Lawn Care Practice	Plan to implement	Implemented Practice	% behavior change
Set Mower to a height of 3"	4	3	75.0%
Leave grass clippings	4	3	75.0%
Sharpen mower blades	3	2	66.7%
Aerate	5	1	20.0%
Topdress	5	2	40.0%
Overseed	3	2	66.7%
Use low maintenance seed	4	2	50.0%
Get a soil test	3	1	33.3%
Use nitrogen-only fertilizer	5	3	60.0%
Use compost tea	6	3	50.0%

Below are the results of the Permit Year 3 post-class evaluations completed by the YardScaping class participants.

Permit Year 3 Post-Class Evaluations			
Lawn Care Practice	Plan to implement	Currently do not implement	% planning to implement
Set Mower to a height of 3"	10	10	100.00%
Leave grass clippings	11	11	100.00%

Sharpen mower blades	11	12	91.67%
Aerate	22	26	84.62%
Topdress	20	26	76.92%
Overseed	22	24	91.67%
Use low maintenance seed	23	23	100.00%
Get a soil test	25	27	92.59%
Use nitrogen-only fertilizer	22	26	84.62%
Use compost tea	19	25	76.00%

CCSWCD staff will contact the class participants from the Permit Year 3 classes in Permit Year 4 to determine which behaviors have been adopted.

**Targeted Information
Distribution**

Distribute lawn care information in one targeted neighborhood per ISWG community	complete	YardScaping information was distributed throughout priority neighborhoods in each ISWG community. The following number of households received information:
		Biddeford: 113
		Cape Elizabeth: 79
		Cumberland: 115
		Falmouth: 116
		Freeport: 87
		Gorham: 125
		Old Orchard Beach: 109
		Portland: 353
		Saco: 255
		Scarborough: 115
		South Portland: 117
		Westbrook: 103
		Windham: 311
		Yarmouth: 89

**Websites & Free
Media**

Maintain and monitor CCSWCD YardScaping website	complete	CCSWCD has launched its newly redesigned website. The YardScaping section is now up-to-date with YardScaping partner stores and updated fact sheets. The YardScaping calendar of events is still in development. Community events and classes are advertised through CCSWCD's Facebook page.
Newspaper coverage of YardScaping activities and healthy lawn care	complete	<i>Portland Press Herald: Letter to the Editor: Casco Bay steward offers kudos to chemical-free lawn care professionals (July 2, 2015)</i>
		<i>Portland Press Herald: What to plant when you no longer want a lawn (July 5, 2015)</i>
		<i>The Sentry: Lawn Care can help reverse global warming (September 11, 2015)</i>

		<i>Portland Press Herald: Letter to the Editor: Portland should ban lawn products containing pesticides (October 6, 2015)</i>
		<i>Portland Press Herald: Portland citizens' group proposes broad pesticide ban (October 7, 2015)</i>
		<i>The Sunrise Guide Blog: A Healthy Fall Lawn Makes for a Happy Spring (October 9, 2015)</i>
		<i>The Sentry: Couple raises alarm over pollutants on Willard (October 16, 2015)</i>
		<i>Portland Press Herald: Pesticide ordinance would have Portland flourishing responsibly (February 1, 2016)</i>
		<i>Portland Press Herald: The grass is not always greener. On our lawns, that is (March 27, 2016)</i>
		<i>Portland Press Herald: South Portland gives initial approval to pesticide ban (April 5, 2016)</i>
		<i>Portland Press Herald: Letter to the Editor: Pesticide-free green lawns? Learn how from the experts (April 14, 2016)</i>
		<i>Portland Press Herald: The incredible shrinking lawn: It's a movement that should grow (May 1, 2016)</i>

Additional Activities not Identified in the Plan

Purchased ad space	complete	ISWG/CCSWCD placed a 1/6-page color ad promoting the YardScaping program in the Fall 2015 / Winter 2016 edition of <i>Green and Healthy Maine Homes</i> magazine. An article about fall lawn care was also submitted, but it was not published in the magazine. (The article was made available on the Sunrise Guide website: http://thesunriseguide.com/a-healthy-fall-lawn-makes-for-a-happy-spring/ .)
Materials development	complete	CCSWCD developed a new educational brochure to accompany displays at point of sale retailers. This new handout provides an overview of the YardScaping program and a schedule for carrying out recommended practices. The brochure is also available online at www.cumberlandswcd.org (click on the YardScaping ducky logo to access the YardScaping page).

BMP 1.6: Develop and implement Targeted Outreach in Priority Watershed Plan.

Measurable Goal 1.6.1 – By July 1, 2014 submit a draft plan on how to meet either permit requirement H.1.a.iv.1 or H.1.a.iv.2. The plan will identify:

- a) the specific stormwater activity or pollutant to be addressed;
- b) the target audience;
- c) the outreach tool(s) to be used;
- d) the message and the BMPs to be encouraged;
- e) the time line and implementation schedule;
- f) the person(s) responsible for implementation;
- g) the goal of the outreach effort; and
- h) the impact evaluation protocol.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The ISWG education coordinator worked with the York County MS4s to develop a regional MS4 Enhanced Outreach Plan. The draft plan was submitted to Maine DEP on June 25, 2014.	None
2	Comments on the draft plan were received from Maine DEP on 8/11/2014. The comments were addressed, and a revised plan was submitted to DEP on 9/23/2014. Additional comments were received from DEP on 10/29/2014. The plan was revised and resubmitted on 12/18/2014. The plan was approved by DEP on 12/30/2014.	None
3	<p>ISWG and the York County MS4s submitted the status report to DEP on January 29, 2016. The report summarized the tasks completed to date and provided proposed revisions to the Plan, which included:</p> <ol style="list-style-type: none">1. Revising the message used to reach legislators to address issues raised in the opposition's 2015 testimony.2. Updating the coal tar fact sheet based on the opposition's testimony.3. Conducting proactive outreach to members of the Environment and Natural Resources Committee (e.g. inviting them to attend MEWEA's legislative breakfast on March 3, 2016 and other events as applicable).4. Meet with Representative Daughtry to plan for the next session. <p>ISWG and the York County MS4s received written notification of approval of the Plan revisions on April 8, 2016.</p>	

Permit Year	Description of Progress	Changes
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Measurable Goal 1.6.2 – by November 1, 2014 submit a final plan. Unless DEP responds in writing or verbally otherwise, then as of January 5, 2015 the Targeted Outreach in Priority Watershed Plan is considered approved and implementation will begin.

Reporting: review of Targeted Outreach in Priority Watershed Plan will be included in Annual Reports starting in Permit Year 2. The review will include process and impact indicators as outlined in the Targeted Outreach in Priority Watershed Plan. In Permit Year 5 an analysis of the process and impact indicators of the Targeted Outreach in Priority Watershed Plan will be provided.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	No work required to be completed this Permit Year. The Maine DEP comments will be addressed and finalized by November 1, 2014.	None
2	<p>LR22 – act to Promote Asphalt and Latex Pavement Sealing Products was drafted by Representative Matthea Daughtry in January 2015. The Legislative revisers office adjusted the bill and issued it in draft on 3/11/2015. Rep. Daughtry met with the revisers office on 3/17 and adjusted the language. The bill, LD 1208 was drafted and issued on 4/7/2015, with a hearing scheduled for the Environment and Natural Resources Committee on 4/23/2015.</p> <p>Representatives from ISWG and the York County MS4s held several conference calls (1/6/2015, 4/16/2015 and 4/27/2015) and meetings (12/11/2014) to review and adjust the language, conduct research on the issue and how other states and municipalities have addressed bans on coal tar-based sealants.</p> <p>ISWG drafted a fact sheet, which was reviewed by ISWG and the York County MS4s. The fact sheet was reviewed only by Ms. Daughtry and revised based on all comments received. The fact sheet was provided to the Environment and Natural Resources Committee members via email and as part of their informational packet for consideration. Phone calls were also made to representatives on the committee to discuss the bill and fact sheet. A small number of committee members were reached directly, and messages were left for those that were not reached. No phone calls were returned before the Committee met to consider the bill.</p> <p>ISWG and the York County MS4s reached out to the Long Creek Watershed Management District, the Falmouth Conservation Commission, Environmental Health Strategy Center, MEWEA, and the US</p>	None

Permit Year	Description of Progress	Changes
	<p>Geologic Survey (who has done much of the research on coal-tar based sealants). In addition, ISWG and York County MS4s reached out their MMA Legislative committee members to encourage them to vote to support the bill (the MMA Legislative committee is the entity that decides what bills MMA will support).</p> <p>The hearing for the bill was conducted on 4/23/2015. The Falmouth Conservation Commission, Environmental Health Strategy Center, MEWEA, and MMA all testified for the bill. The Long Creek Watershed Management District testified neither for nor against the bill. The Pavement Coatings Technology Council and Maine DEP testified against the bill.</p> <p>A work session was held on 4/20/2015, and the US Geologic Survey attended this work session. At the end of the session, a majority of the Environment and Natural Resources Committee voted "ought not to pass". On May 26, 2015, the House and Senate accepted the majority committee's recommendation to not pass the bill.</p> <p>Ms. Daughtry has stated she will revise and re-issue the bill in 2016. ISWG and the York County MS4s are obtaining a full copy of all testimony, and anticipate making some revisions to our proposed plan for enhanced public education to provide better public education to the legislators for this issue.</p>	
3	<p>The status on items completed to fulfil the Plan is as follows:</p> <p><i>Revise Outreach message:</i> Testimony from the 2015 LD1208 hearing was reviewed. The talking points developed in 2015 were updated to address issues raised in the opposition testimony. Information relating to availability of preferred asphalt-based products and municipal support of the coal tar ban was added.</p> <p><i>Update coal tar fact sheet:</i> Testimony from the 2015 LD1208 hearing was reviewed. The talking points developed in 2015 were updated to address issues raised in the opposition testimony. Information relating to availability of preferred asphalt-based products and municipal support of the coal tar ban was added.</p> <p><i>Conduct outreach to Environment and Natural Resources Committee:</i> Representatives from ISWG/CCSWCD and the York County MS4s invited legislators to attend MEWEA's Legislative breakfast on March 3, 2016. Staff attended the breakfast and provided the coal tar fact sheet to interested parties. In addition, staff spoke directly with legislators about the impact coal tar-based sealers have on water resources.</p> <p><i>Meet with Rep. Daughtry:</i> Representatives from ISWG/CCSWCD and the York County MS4s reached out to Rep. Daughtry to discuss plans to reintroduce the bill in the 2016/2017 legislative session. Rep. Daughtry confirmed that she is planning to reintroduce the bill and requested the</p>	

Permit Year	Description of Progress	Changes
	<p>assistance of ISWG and the York County MS4s to provide educational materials and outreach to the legislators. A meeting to discuss roles and responsibilities is planned for the fall of 2016.</p> <p><i>Additional Activities not identified in Plan:</i> ISWG/CCSWCD met with Mickey Kuhns, DEP Water Bureau Director, and other representatives from DEP to discuss various MS4-related topics. ISWG/CCSWCD sought Mr. Kuhns' input regarding how to successfully achieve a ban on coal tar-based sealers. Mr. Kuhns suggested that successful efforts on the local level would help influence the legislature. He also suggested obtaining more local water quality data that indicates coal tar products and PAHs are impacting Maine's water resources.</p>	
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BMP 1.7: School Outreach

Measurable Goal 1.7.1 – In Permit Year 1, continue to offer the “It’s all connected” school curriculum to elementary and/or middle schools.

Measurable Goal 1.7.2 – In Permit Years 2 - 5, as funding permits, continue to offer the “It’s all connected” school curriculum to elementary and/or middle schools.

Reporting – Annual reports will include the total number of students reached, which schools were involved and the lesson topics that were covered.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	<p>PWD and CCSWCD offered the “Its all connected” program to the Cumberland School District. The following is a summary of the programming provided to Cumberland students:</p> <p>Cumberland Total students: 336 (CCSWCD: 46, PWD: 290) Total contact hours: 1,294 (CCSWCD: 119, PWD: 1,135) Lesson topics: Nonpoint source pollution, watersheds, water quality/testing, water cycle and distribution, water systems/movement, watershed delineation, local watersheds, nested watershed concept, topography, Stormwater, brook trout anatomy, life cycle, habitat and adaptations, native and invasive aquatic species, impervious/pervious surface, best management practices, trout releases at Collyer Brook, macroinvertebrate sampling, streamside assessment. Schools: Greely Middle School, Greely High School</p>	

Permit Year	Description of Progress	Changes
	Educator: PWD, CCSWCD	
2	Cumberland Total students: 404 (CCSWCD: 235, PWD: 169) Total contact hours: 1,555 (CCSWCD: 235, PWD: 1,320) Lesson topics: Marine debris and ocean currents; watersheds, nonpoint source pollution, and water quality parameters; in-class water quality testing; groundwater resources and pollution prevention ¹ ; global water distribution, conservation, and the water cycle; branching patterns, water systems/movement, watersheds; runoff, stormwater, nonpoint source pollutants, solutions; habitat requirements and life cycle of Maine's brook trout; impervious/pervious surfaces, nonpoint source pollutants, shorefront landscape design, vegetated buffers; water quality monitoring, macroinvertebrates, mock bioassessment; erosion, best management practices, landscape evaluation and redesign; trout releases at Collyer Brook: water quality testing, macroinvertebrate sampling, streamside assessment hike Schools: Greely High School, Greely Middle School Educator: CCSWCD, PWD	
3	Total students: 167 (CCSWCD & PWD: 100, PWD: 67) Total contact hours: 1,320 (CCSWCD & PWD 200, PWD: 1,120) Lesson topics: TroutKids: brook trout habitat requirements and life cycle, water quality monitoring, trout releases at local water body, water quality testing, macroinvertebrate sampling, streamside assessment hike; HydroLogics program: water movement, nonpoint source pollution, water quality, best management practices, and stewardship Schools: Greely Middle School	
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¹ Additional funding for groundwater lessons provided by Yarmouth Water District

MCM 2 Public Involvement and Participation

The Town is fulfilling the requirements for Public Involvement and Participation through participation in the ISWG and the Town's provision of funding to the ISWG for Public Involvement and Participation services, or through directly fulfilling the requirements.

MCM Goals:

1. Involve the public in both the planning and implementation process of improving water quality and reducing quantity via the stormwater program.

BMP 2.1: Public Notice Requirement

Measurable Goal 2.1.1 – ISWG and/or its members will follow state and local Public Notice requirements for both ISWG and individual Stormwater Management Plans. Copies of the plans will be made available on the Town's web site.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The Town provided public notice of its NOI and SWPM Plan on the Town website.	None
2	No work required or completed this Permit Year.	None
3	The Town posts its SWPMP on its website (Public Services Stormwater Information Page).	None
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Measurable Goal 2.1.2 – ISWG and/or its members will follow state and local Public Notice requirements when involving stakeholders in the implementation of the Small MS4 General Permit.

Report – The annual report will describe compliance with public notice requirements including documentation of meetings and attendance, where applicable.

Responsible party - Public Services Director (with implementation assistance by ISWG Education Coordinator)

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The ISWG meetings are open to the public. A listing of meetings and attendance is provided in Appendix A.	None
2	The ISWG meetings are open to the public. Cumberland staff attended 2 meetings, and the Cumberland stormwater consultant attended 5 meetings.	Per DEP request, appendices

Permit Year	Description of Progress	Changes
		have been removed from the Annual Report.
3	<p>The ISWG meetings are open to the public. Cumberland staff attended 5 meetings, and the Cumberland stormwater consultant attended 3 meetings.</p> <p>The Town posts its annual reports on its website (Public Services Stormwater Information Page).</p>	None
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BMP 2.2: Host Public Events

Measurable Goal 2.2.1 – ISWG and/or permittee will annually host/conduct or participate in at least one public event such as storm drain stenciling, stream clean-up, household hazardous waste collection day, volunteer monitoring, neighborhood educational events, conservation commission outreach program, Urban Impaired Stream outreach program, or adopt a storm drain or local stream program). The target audience will be adult residents living in the urbanized area of the Town. The message will be tailored to best reach the target audience given the characteristics of the event. The ISWG and/or permittee will consult with DEP to ensure the event will satisfy requirements.

Reporting - The annual report will include description of the event including estimated attendance/participation and an impact evaluation to assess effectiveness of the methods used to plan and host the event.

Responsible Party - Public Services Director (with implementation assistance by ISWG Education Coordinator)

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	<p>Urban Runoff & Green Neighbor Family Fest</p> <p>The third annual <i>Urban Runoff</i> 5K race and walk and the <i>Green Neighbor Family Fest</i> were held on April 26, 2014. The goal of these events was to raise awareness of polluted runoff and support ISWG's school education program. With approval from Maine DEP, the race and festival served as the Public Involvement and Participation event for all ISWG communities.</p> <p>By all accounts, the event was a huge success. Approximately 600 runners and walkers registered for the race, and many local</p>	None

Permit Year	Description of Progress	Changes
	<p>businesses supported the race through sponsorships, in-kind donations, and employee participation as race participants and volunteers. Local media outlets advertised the events, including the donation of radio advertisement and an on-air interview during the month of April by 98.9 WCLZ and news coverage by News Chanel 8 WMTW. Social media, paid online advertising, posters, and direct mail and email were also used to promote the race and cause. Stormwater awareness messages were included on the event website, social media, eblasts, and other marketing tools that were sent to all registered participants, sponsors, and partners.</p> <p>Anecdotes as well as a post-race survey completed by race participants demonstrate the success of the race’s planning and implementation. Many participants particularly enjoyed the course, which changed this year to end in front of Deering High School. Many survey respondents indicated the cause of the race, clean water education, was a major reason why they chose to participate.</p> <p>The <i>Green Neighbor Family Fest</i> was held after the race in Deering High School gymnasium due to weather. The event ran for three hours and was attended by approximately 700 people. Scheduled events included the awards ceremony and a live music. A total of 21 exhibits were set up by local nonprofit and governmental organizations, universities, and businesses to provide hands-on, educational activities for children. These activities included a marine touch tank, making “seed bombs” (seeds rolled in compost), water quality experiments, “poo bag” toss (about proper disposal of pet waste), and many more. Children also took part in face painting and water related prize giveaways.</p> <p>The festival was also a great success. Children were engaged, and parents provided feedback that the activities were not only fun, but also educational for both parents and children.</p> <p>Plans are underway to host the fourth annual <i>Urban Runoff</i> 5K and <i>Green Neighbor Family Fest</i> on Saturday, April 25, 2015.</p>	
2	<p>Urban Runoff & Green Neighbor Family Fest</p> <p>2015 marked the fourth year ISWG supported, coordinated, promoted, and participated in the Urban Runoff and Green Neighbor Family Fest, a day-long community event that promotes clean water and raises awareness of water pollution. In addition to raising awareness, funds raised from the Urban Runoff and Green Neighbor Family Fest support ISWG’s in-school youth education program. With approval from Maine DEP, the race and festival, held on April 25, 2015, served as the Public Involvement and</p>	None

Permit Year	Description of Progress	Changes
	<p>Participation event for all ISWG communities. Each community's participants are summarized in the table below.</p> <p>By all accounts, the event was a huge success. Approximately 700 runners and walkers registered for the race, and many local businesses supported the race through sponsorships, in-kind donations, and employee participation as race participants and volunteers. Local media outlets advertised the events, including the donation of radio advertisement during the months of March and April by 98.9 WCLZ. WMTW News Channel 8 promoted the events prior to April 25th, and they attended the race and festival to provide news coverage of the events. Social media, paid online advertising, posters, and direct mail and email were also used to promote the race and included a clean water message. Additional clean water messages were included on the event website, social media, eblasts, and other marketing tools that were sent to all registered participants, sponsors, and partners.</p> <p>Anecdotes as well as a post-race survey completed by race participants demonstrate the success of the race's planning and implementation. Many survey respondents indicated the race's cause: clean water and youth education, was a major reason why they chose to participate.</p> <p>The <i>Green Neighbor Family Fest</i> was held after the race at Deering High School. The event ran for three hours and was attended by approximately 700 people. Scheduled events included the awards ceremony and a live music. A total of 21 exhibits were set up by local nonprofit and governmental organizations, universities, and businesses to provide hands-on, educational activities for children. These activities included a marine touch tank, making "seed bombs" (seeds rolled in compost), water quality experiments, and many more. Children also took part in face painting and water related prize giveaways.</p> <p>Plans are underway to host the fifth annual <i>Urban Runoff</i> 5K and <i>Green Neighbor Family Fest</i> on Saturday, April 23, 2016.</p> <p><i>Promotion</i></p> <p>With the help of all ISWG representatives, CCSWCD promoted ISWG's public event, the Urban Runoff 5K and Green Neighbor Family Fest, via social media, paid online ads, and direct email communication to participants. In addition, 340 posters were distributed throughout the 14 ISWG communities by ISWG representatives; radio ads aired on 98.9 WCLZ during the months of March and April; and WMTW News Channel 8 attended the event and covered the events leading up to April 25, 2015.</p>	

Permit Year	Description of Progress	Changes
	<p>Cumberland placed 19 posters throughout Town advertising the event, and had 27 participants in the race.</p> <p>The Town also held a Household Hazardous Waste Day on October 11, 2014.</p>	
3	<p>2016 marked the fifth year ISWG supported, coordinated, promoted, and participated in the Urban Runoff and Green Neighbor Family Fest, a day-long community event that promotes clean water and raises awareness of water pollution. In addition to raising awareness, funds raised from the Urban Runoff and Green Neighbor Family Fest support ISWG's in-school youth education program. The race and festival, held on April 23, 2016, served as the Public Involvement and Participation event for all ISWG communities. Each community's participants are summarized in the table below.</p> <p>By all accounts, the event continues to be a huge success. Over 700 runners and walkers registered for the race, and many local businesses supported the race through sponsorships, in-kind donations, and employee participation as race participants and volunteers. Local media outlets advertised the events, including the donation of radio advertisement during the months of March and April by 98.9 WCLZ. Channel 8 WMTW developed and ran a 20-second ad promoting the events throughout the month of April, and they attended the race and festival to provide news coverage of the events, including 6 live interviews on the morning of April 23rd, 2016. Social media, paid online advertising, posters, and direct mail and email were also used to promote the race and included a clean water message. Additional clean water messages were included on the event website, social media, eblasts, and other marketing tools that were sent to all registered participants, sponsors, and partners.</p> <p>The Green Neighbor Family Fest was held after the race at Deering High School. The event ran for three hours and was attended by approximately 900 people. Scheduled events included the awards ceremony and live music. A total of 29 exhibits were set up by local nonprofit, governmental organizations, and businesses to provide hands-on, educational activities for children and families. These activities included a marine touch tank, making mini ecosystems, water quality experiments, and more. Children also took part in face painting, an obstacle course moon bounce, and water related prize giveaways.</p> <p>Plans are underway to host the sixth annual Urban Runoff 5K and Green Neighbor Family Fest on Saturday, April 22, 2017.</p>	None

Permit Year	Description of Progress	Changes
	<p><i>Promotion</i></p> <p>With the help of all ISWG representatives, CCSWCD promoted ISWG's public event, the Urban Runoff 5K and Green Neighbor Family Fest, via social media, paid online ads, and direct email communication to participants.</p> <p>Cumberland placed 19 posters throughout Town advertising the event, and had 29 participants in the race.</p>	
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MCM 3 Illicit Discharge Detection and Elimination

MCM Goals

1. Maintain an updated watershed based storm sewer system infrastructure map;
2. Continue to enforce the Town's stormwater discharge ordinance;
3. Continue to implement the Town's illicit discharge detection and elimination program including dry weather outfall inspections in the two highest priority sub-watersheds, which encompass the entire Urbanized Area;
4. Continue to implement the Town's strategy to detect any illicit discharges to the open ditch system within the sub-watershed of the East Branch of the Piscataqua River and expand this program in to the Casco Bay Frontal Drainages sub-watershed.
5. Develop a list of septic systems that are 20 years old or older and implement a drive-by evaluation and documentation program in the following sub-watersheds: East Branch of the Piscataqua River and Casco Bay Frontal Drainages, and
6. Work with the Portland Water District to identify if hydrant flushing practices in the MS4 constitute significant contributors of pollutants.

For specific permit requirements and suggestions, Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems Part IV.H.3 refer to the General Permit.

BMP 3.1: Maintain an updated Watershed Based Storm Sewer System Infrastructure Map

Measurable Goal 3.1.1 - The Town created a watershed-based map of the MS4 infrastructure during the prior two permit cycles (2003-2013). Annually by June 30 each year, the Town will update the paper copies of the maps to reflect new infrastructure and changes to the infrastructure. If funding allows, the GIS map system will also be updated.

Reporting - Annual update of mapping efforts undertaken in the Permit Year.

Responsible Party - Public Services Director

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The Town updated its electronic infrastructure map based on outfall and ditch inspections during Permit Year 1. The Town has 230 catch basins, 41 outfalls, 38 drain manholes, 47,680 lineal feet of pipes, and 60,750 lineal feet of ditches in the Urbanized Area. The Town has also mapped 53 additional catch basins and pipes associated with the school district, and 46 catch basins associated with State DOT Roads (Main Street, Tuttle Road).	None
2	An intern was hired to do a thorough cross check of the storm drain system. As a result, the Town now has the following infrastructure: 51 outfalls, 291 catch basins, 47 drain manholes, 399 culverts, 50,700 feet of storm drain pipe, and 86,000 feet of ditches.	None
3	During Permit Year 3, a public works employee physically crossed checked the outfalls in the MS4. In addition during the Maine DEP Audit on May 25, one outfall was identified to be private (not MS4), and several ditch outfalls were identified that were not previously in the system. As a result, in the MS4 area, the Town's active infrastructure is as follows: 56 piped outfalls, 26 ditch outfalls, 318 catch basins, 47 drain manholes, 382 culverts, 77,800 feet of storm drain pipe, and 86,200 feet of ditches.	
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BMP 3.2: Continue to Enforce the Stormwater Discharge Ordinance

Measurable Goal 3.2.1 - The Town of Cumberland adopted and implemented an ordinance prohibiting the discharge of anything other than stormwater into the Town's stormwater infrastructure within the Urbanized Area on February 28, 2009. The Ordinance is Article I Stormwater Discharge of Chapter 242 Stormwater Management of the Town's Zoning Ordinance. The Town will continue to implement this ordinance. As part of the Illicit Discharge Detection and Elimination Program, the Town maintains a listing of illicit discharges that have been identified and how they are addressed. The Town will update the spreadsheet by June 30 each year to include information on whether the Stormwater Discharge Ordinance was used as an enforcement tool for the illicit discharges.

Reporting: Documentation of illicit discharge incidents and municipal enforcement actions as a result of the adopted ordinance will be included in annual reports to DEP each year of the permit.

Responsible Party: Public Services Director.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	Appendix B contains a copy of the IDDE Tracking Spreadsheet. No NOVs were issued during Permit Year 1.	None
2	No NOVs were issued during Permit Year 2. Three potential illicit discharges were under investigation in Permit Year 2. Two of the outfalls flow from shady low/wetland areas and exhibited green algal growth at the outfall. These outfalls were sampled for human bacteroides. Results showed no human bacteroides were present. No further investigation is planned for these outfalls. The third outfall is continuing to be monitored, but has not been sampled because no flow is present.	Per DEP request, appendices have been removed from the Annual Report.
3	No NOVs were issued during Permit Year 3.	None
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BMP 3.3: Continue Illicit Discharge Detection and Elimination Program

Measurable Goal 3.3.1 – During the past permit cycle, the Town developed an illicit discharge detection and elimination program which included a prioritized outfall inspection program that required annual dry weather inspections in two highest priority sub-watersheds (East Branch of the Piscataqua River and Casco Bay Frontal Drainages). The General Permit requires that the Town continue to implement the IDDE program and expand inspections into sub-watersheds that were not previously inspected, however these are the only two sub-watersheds in the Urbanized Area of Cumberland. Therefore, the Town will continue to implement the program and conduct inspections in these two sub-watersheds.

Reporting - Inspection results will be documented in a spreadsheet or other recordkeeping system and a summary will be reported in annual reports submitted to the DEP.

Responsible Party: Public Services Director

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	<p>The Town inspected 8 outfalls in the Urbanized Area (20%) and all MS4 and school catch basins during Permit Year 1. Three potential illicit discharges were identified during the outfall inspections, and no potential illicit discharges were identified during catch basin inspections.</p> <p>No public reports of illicit discharges were received, and no illicit discharges were identified by the public works employees during their regular work duties. (See</p>	

Permit Year	Description of Progress	Changes
	Measurable Goal 3.1.1 and Appendix B for details).	
2	<p>The Town re-inspected three outfalls, and inspected an additional 34 outfalls in the highest priority watershed (East Branch of the Piscataqua River). All catch basins were inspected in the MS4 area and at the schools. One illicit discharge is under investigation for an observation of foam. Some of the outfall inspections were conducted during wet weather, and will be re-inspected during dry weather.</p> <p>No public reports of illicit discharges were received and no new illicit discharges were identified by public works employees during their regular work duties.</p>	Per DEP request, appendices have been removed from the Annual Report.
3	<p>The Town inspected 50 of the 56 outfalls. The remaining 6 outfalls are scheduled to be inspected in PY4. All catch basins were inspected during cleaning.</p> <p>No new potential illicit discharges were identified during the outfall or catch basin inspections.</p> <p>No public reports of illicit discharges were received, and no illicit discharges were identified by the public works employees during their regular work duties. (See Measurable Goal 3.1.1 and Appendix B for details).</p>	None
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BMP 3.4: Continue Open Ditch Illicit Discharge Program

Measurable Goal 3.4.1 – During the past permit cycle, the Town developed a strategy for detecting illicit discharges in their open ditch system within their highest priority sub-watershed (East Branch of the Piscataqua River River). The Town will continue to implement the open ditch inspection program and will expand it into the Casco Bay Frontal Drainages sub-watershed.

Reporting - Annual reports to DEP each year of the permit will include a status report on the inspections completed. Note: reporting of illicit discharge detections and actions taken will be in conjunction with BMP 3.2, Continue to Enforce the Stormwater Discharge Ordinance.

Responsible Party: Public Services Director.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	Inspections were completed on 55% of the ditches in the Urbanized Area during Permit Year 1. No illicit discharges	None

Permit Year	Description of Progress	Changes
	were identified during ditch inspections.	
2	Because of the increase in ditches mapped this year, the total % of ditches inspected during Permit Year 1 was recalculated to be 44%. An additional 41% of the ditches in the urbanized area were inspected in Permit Year 2, resulting in a total of 85% of the ditches inspected during Permit Years 1 and 2. Some of the inspections completed during this permit year were wet weather inspections, but most of the ditches did not have flowing water and so observation of illicit discharge potential was possible. No potential illicit discharges were identified from ditch inspections. The Town continues to map private pipes protruding into ditches as pipe stubs where observed, but does not trespass on private property to fully map other infrastructure.	None
3	An additional 2% of ditches were inspected during Permit Year 3 bringing the total to 87% of all ditches inspected. The Town is still on target to complete all ditch inspections by the end of Permit Year 5 as described in their ditch SOP. The remaining ditches to be inspected are located in the Casco Bay Frontal Drainages Subwatershed which includes Spruce Lane, Stony Ridge Road, Long Meador Road, Sea Cove and Lantern Lane.	None
4		
5		

BMP 3.5: Document and Evaluate Aging Septic Systems

Measurable Goal 3.5.1 – By June 30, 2016, the Town will develop a list of aging (i.e., greater than 20 years old) septic systems that might discharge to the MS4 if they were to fail for the following sub-watersheds: East Branch of the Piscataqua River and Casco Bay Frontal Drainages.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	No work was required to be completed this Permit Year.	None
2	Although no work was required to be completed this year, the Town mapped the approximate locations of 563 septic systems (leach field boundaries and tank access locations) on their GIS. Many of these systems are outside the Urbanized Area, and may be less than 20 years old. The data will be reviewed to develop a list for drive-by inspections in Permit Year 4.	None
3	The Town completed the mapping of the leachfields and tank accesses. Based on the mapping, 158 parcels have	None

Permit Year	Description of Progress	Changes
	insufficient town data available to assess the age of the septic system and 251 parcels have septic systems that are older than 1997. These 409 system will need to be inspected using a drive by inspection in Permit Year 4.	
4		
5		

Measurable Goal 3.5.2 – By June 30, 2017, the Town will implement a drive-by evaluation and documentation program of the aging septic systems identified in Measurable Goal 3.5.1. The program will include a mechanism to address any discharges from failed septic systems.

Reporting – The Permit Year 3 Annual Report will include a status report on the number of septic systems identified. The Permit Year 4 Annual Report will include a description of the evaluation and documentation program. Note: reporting of illicit discharge detections and actions taken will be done in conjunction with BMP 3.2, Continue to Enforce the Stormwater Discharge Ordinance.

Responsible Party: Public Services Director

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	No work was required to be completed this Permit Year.	None
2	No work required or completed this Permit Year.	None
3	No work required or completed this Permit Year.	None
4		
5		

BMP 3.6: Work with Portland Water District to Assess if Hydrant and Water Line Practices Contribute Significant Pollutants to the MS4

Measurable Goal 3.6.1 - In Permit Year 1, coordinate with the water utility via mail or in person to evaluate whether or not water line or hydrant flushing from potable water sources is a significant contributor of pollutants to the MS4. Evaluation will include the following action:

- Provide the water utility with a location map showing the extent of the municipal urbanized area, and the highest priority watershed(s).
- Gather information from the water utility, specific to the Urbanized Area and priority watershed(s), including the number and location of hydrants, details on water line or hydrant flushing that outlines procedures, including how often flushing occurs, typical flow rates and duration, where the water is conveyed, what the target or actual chlorine concentrations are, and what best practices are employed to prevent erosion and address potential pollutants.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	<p>The Town's consultant met with the PWD and ISWG communities on 1/17/2014, where discussions occurred regarding the flow rates, target chlorine concentrations and best practices. The PWD agreed to conduct chlorine monitoring and to investigate BMPS to reduce chlorine discharges.</p> <p>The Town provided the PWD with shape files showing the highest priority watershed (Presumpscot River Watershed HUC 0106000103) on June 3, 2014.</p>	None
2	No work required or completed this Permit Year.	Measurable Goal was renumbered 3.6.1. It was incorrectly numbered in the Stormwater Program Management Plan.
3	No work required or completed this Permit Year.	None
4		
5		

Measurable Goal 3.6.2 - By the end of Permit Year 2, using available GIS information, the location of hydrants will be added as a layer to the storm sewer system infrastructure map to aid in the evaluation. The municipality will work with the water utility to prioritize the hydrants and water lines that have the potential to cause exceedances of the ambient water quality criterion for chlorine when discharged through the MS4.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	No work was required to be completed this Permit Year.	None
2	<p>The hydrants were added to the on-line GIS infrastructure.</p> <p>The Town's consultant conveyed to PWD that any discharges to the small stream will require dechlorination.</p>	Measurable Goal was renumbered 3.6.2. It was incorrectly numbered in the Stormwater Program Management Plan.

Permit Year	Description of Progress	Changes
3	The 264 Portland Water District hydrants and 14 private hydrants are still part of the Town's GIS map.	None
4		
5		

Measurable Goal 3.6.3 - Permit Years 2 – 5, the municipality will request an annual water quality progress report that documents what best management practices are being implemented for flushing activity at the prioritized hydrants as well as the water utility's testing results of the total residual chlorine for any such discharges.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	No work was required to be completed this Permit Year.	None
2	The Town's consultant met with the Portland Water District on 1/29/2015 to review the Portland Water District's water quality testing reports and to determine next steps. The Portland Water District will be testing dechlorination units in Permit Year 3.	Measurable Goal was renumbered 3.6.3. It was incorrectly numbered in the Stormwater Program Management Plan.
3	The Town requested a report from the Portland Water District on water testing results and best management practices in use during hydrant flushing. The Portland Water District reported they are dechlorinating all hydrants to meet the field standard specified by the DEP of 50 ug/l TRC, and they provided a summary memorandum describing their best management practices.	None
4		
5		

Measurable Goal 3.6.4: If it is determined by the end of Permit Year 3, that water line and hydrant flushing is a significant contributor of pollutants to the MS4, and the water utility has demonstrated that it will not voluntarily implement BMPs in order to reach ambient water quality criteria for chlorine, the municipality will, by the end of Permit Year 4, update their IDDE ordinance to allow enforcement of discharges that cause exceedances of water quality criteria.

Reporting: The annual report will include a status update on the evaluation of water line and hydrant flushing as a significant contributor of pollutants to the MS4 and an update on subsequent actions.

Responsible Party: Public Services Director.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	No work was required to be completed this Permit Year.	None
2	No work was required to be completed this Permit Year.	Measurable Goal was renumbered 3.6.4. It was incorrectly numbered in the Stormwater Program Management Plan.
3	The Utility provided the Town with a memorandum documenting the BMPs employed during hydrant flushing. Although the utility has voluntarily begun to dechlorinate all hydrants during flushing, the Town updated their ordinance to reflect that the listed allowed non-stormwater discharges are allowed only if they do not cause or contribute to a violation of state water quality standards. The change was made on 3/28/2016.	None
4		
5		

BMP 3.7: Coordinate with DMR on issues related to Broad Cove

Measurable Goal 3.7.1 – The Town currently cooperates with the Department of Marine Resources to collect bacteria samples at two locations in Broad Cove. The Town of Cumberland will continue this activity and will share information with DMR related to illicit discharge inspections and potential bacteria sources in the sub watershed that drains to Broad Cove (Casco Bay Frontal Drainages). In addition, the Town will meet with DMR during Permit Year 1 to understand what activities DMR has planned for investigating sources of bacterial contamination.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The Town's consultant met with the DMR on 6/25/2014. DMR provided information on the shoreline surveys they complete in order to assist towns in opening shellfish areas. The Towns provided DMR with information relevant to the MS4 Program. DMR will make available their historic database of recent sampling.	None

Permit Year	Description of Progress	Changes
2	No shoreline surveys were planned for Cumberland in Permit Year 2. The Town continues to conduct volunteer monitoring at DMR locations.	None
3	The Town continues to conduct volunteer monitoring at DMR locations.	None
4		
5		

MCM 4 Construction Site Stormwater Runoff Control

MCM Goals

Continue to implement and enforce a program to reduce pollutants in any stormwater runoff to the regulated small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. For specific permit requirements and suggestions, refer to MDEP's General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems Part IV.H.4.

The Town will rely on the Maine Construction General Permit or Chapter 500, Stormwater Management.

BMP 4.1: Continue notification to construction site developers and operators

Measurable Goal 4.1.1 – Continue notifying developers and contractors through the modified building permit and through meetings with Code Enforcement and Planning staff, and by making notification materials available at Town Hall. The documents provide notification to applicants of the requirements for registration under the Maine Construction General Permit or Chapter 500 Stormwater Management for the Discharge of Stormwater Associated with Construction Activities.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	<p>The Town of Cumberland provides notification of Chapter 500 and MCGP requirements to each developer either in meetings for planning board or building permit sites. The Town provides notice of MGCP requirements verbally and on the building permit application form for building permit only sites.</p> <p>The Town continued to evaluate the effectiveness of the current notification system and it was determined that the current procedure provides adequate notification to developers and operators of sites within the Urban Area as well as the remaining areas of the Town.</p> <p>The Town also maintains a library of available information and handouts for contractors and developers as well.</p>	None
2	Same as Permit Year 1	None
3	Same as Permit Year 1	None
4		
5		

BMP 4.2: Continue documenting every construction activity that disturb one or more acres within the Urbanized Area.

Measurable Goal 4.2.1 – During the previous Permit Cycle, the Public Services Director developed a spreadsheet to document the construction activities that disturb more than one acre of land in the

Urbanized Area. By June 30 each year the spreadsheet will be updated to include the construction projects in the Urbanized Area that disturbed more than one acre of land.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The spreadsheet documenting the sites that required inspections is contained in Appendix C.	None
2	The spreadsheet continues to be maintained and is available upon request.	Per DEP request, appendices have been removed from the Annual Report.
3	The spreadsheet continues to be maintained and is available upon request.	None
4		
5		

BMP 4.3: Continue implementing the construction site inspection program.

Measurable Goal 4.3.1 – During the previous permit cycle, the Town developed a procedure for construction site inspections by either a municipal official or a contracted third party to meet the terms and conditions of the MS4 General Permit (i.e., to ensure projects are in compliance with the Maine Construction General Permit and Basic Standards of Chapter 500, Stormwater Management). The program includes three construction inspections for sediment and erosion control issues in those sites that are in the highest priority subwatershed (East Branch of the Piscataqua River), and two inspections in all other portions of the Urbanized Area. One of the inspections occurs at the end of construction to document that final stabilization of the site has been completed. The Town will continue to implement this program, using the standardized inspection form, and by June 30 each year will document this information in the Construction Inspection Tracking spreadsheet that is also used to document BMP 4.2.

Reporting – The Permit Year 1, 2, 3, 4 and 5 Annual reports will include a summary of information tracked in the spreadsheet.

Responsible Parties: Public Services Director (for third party inspections) and Code Enforcement Officer (for sites without third party inspectors)

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The Town completed construction site inspections on all sites that disturbed more than one acre of land that discharged to the Town's MS4. At least three inspections	None

Permit Year	Description of Progress	Changes
	were completed at the one site whose construction ended in Permit Year 1 (Maine Standards Building). The other sites (Friends School and Raven Farm Substation) are still under construction and inspections will continue.	
2	The Town reiterated to its third party inspectors the importance of ensuring that contractors follow their erosion and sediment control plans for sites in the Urbanized Area and requested they use a new form. The Town continued construction inspections at Friends School, and began inspections at the only other site under construction that triggers this requirement, Spears Hill Subdivision.	None
3	<p>There were two site under construction during Permit Year 3. Inspections conducted on these sites are summarized as follows:</p> <p>Spears Hill subdivision: four inspections were completed, Cumberland Memory Care: one inspection was completed (site began construction 6/28/2016)</p> <p>No significant issues with erosion or sedimentation were observed.</p>	Per DEP request, details on the number of sites under construction and the number of sites inspected are being provided herein.
4		
5		

Additional Items not included in Plan:

Construction Inspection Checklist: CCSWCD worked with an ISWG subcommittee and local consultants and developers to create a comprehensive construction inspection checklist to be used for construction projects of 1 acre or greater within municipal urbanized areas. The inspection checklist incorporates the erosion and sedimentation control requirements outlined in the Maine Construction General Permit and Chapter 500, which are referentially included in the MS4 permit.

Code Enforcement Training: CCSWCD developed a two-hour training session to educate municipal code enforcement officers (CEO) about proper erosion and sedimentation best management practices, municipal non-stormwater discharge ordinance, and other relevant MS4 permit requirements. The training was developed with assistance from Windham's CEO and piloted with Westbrook's Code Enforcement staff. The training will be offered to CEOs in the larger ISWG group in PY4.

MCM 5 Post-Construction Stormwater Management

MCM Goals:

(Within the Urbanized Area)

- Continue to implement a program to address 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 Town's MS4;
- Continue to implement an ordinance or similar measure to ensure adequate long-term operation and maintenance of post-construction BMPs;
- Ensure post-construction BMPs are functioning as intended; and
- Document and report annually to the MDEP all applicable post-construction related information.

For specific permit requirements and suggestions, refer Part IV.H.5 of the General Permit.

BMP 5.1: Continue to Enforce Ordinance or Similar Measure

Measurable Goal 5.1.1 – During the previous permit cycle, the Town passed a Post-Construction Stormwater Management Ordinance (effective September 14, 2009) which requires that any site that disturbs more than one acre certify to the Town annually by March 1 that a state certified inspector has inspected and maintained their stormwater BMPs. The ordinance is Article II of Chapter 242 Stormwater Management of the Zoning Ordinance. The Town will continue to enforce this ordinance.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The Town continues to enforce this ordinance. No NOVs were issued.	None
2	Though annual certifications were submitted to after the deadline specified in the ordinance, the Town did not issue NOVs because this was the first year that any certifications were required. The Town worked closely with the two site owners to ensure they understood the importance of the requirements.	None
3	The Town continues to enforce this ordinance. No NOVs were issued.	None
4		
5		

BMP 5.2: Track Post-Construction Sites to ensure proper reporting and compliance with the Ordinance

Measurable Goal 5.2.1 - The Town has developed a spreadsheet to track sites that trigger the Post-Construction Ordinance and to document the following elements which are required to be reported to the Maine DEP:

- The cumulative number of sites that have post construction BMPs discharging into the permittee's MS4;
- A summary of the number of sites that have post-construction BMPs discharging into the permittee's MS4 that were reported to the municipality;
- The number of sites with documented functioning post-construction BMPs; and
- The number of sites that required routine maintenance or remedial action to ensure that the post-construction BMP is functioning as intended.

The Town will complete the spreadsheet by June 30 each year.

The Town ordinance requires that owners and operators hire a "Qualified Third Party Inspector" to inspect the site, therefore the General Permit requirements related to Town inspections in watersheds of Urban Impaired Streams and Lakes Most at Risk do not apply.

Reporting - Documentation of all inspections will be entered into a spreadsheet for tracking and annual reporting to DEP.

Responsible Parties: Public Services Director

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	<p>The tracking sheet used to track sites triggering the construction inspection requirements of the permit is used to track Post-Construction Inspection sites (see Appendix C).</p> <p>One site (the Maine Standards Building) is due to provide a Post-Construction maintenance certification to the Town in the Fall of 2014.</p>	None
2	<p>Two sites were required to submit annual certifications, and did so in Permit Year 2. The following is a summary of the information required for this report:</p> <p>2 sites discharged to the Town's MS4 2 sites provided their maintenance certifications to the Town 1 site had fully functioning BMPs (Maine Standards) 1 site required routine maintenance which was corrected during the inspection (Ravens Farm Substation).</p> <p>Two additional sites will be required to provide annual certifications when construction is complete (Spear's Hill Subdivision, and Norton Financial Services).</p>	Per DEP request, appendices have been removed from the Annual Report.
3	Two sites were required to submit annual certifications, and did so in Permit Year 3 (note that upon secondary review, Norton Financial Services does not discharge to the MS4, so	None

Permit Year	Description of Progress	Changes
	<p>they are not required to have a maintenance agreement, and as of June 30, 2016 Spear's Hill Subdivision was still under construction). The following is a summary of the information required for this report:</p> <p>2 sites discharged to the Town's MS4 (Maine Standards and Raven's Farm Substation)</p> <p>2 sites provided their maintenance certifications to the Town</p> <p>2 sites had fully functioning BMPs (Maine Standards)</p> <p>2 sites required routine maintenance which was corrected during the inspection (Ravens Farm Substation).</p> <p>No additional sites were approved during PY3 that will require maintenance agreements.</p>	
4		
5		

BMP 5.3: Develop LID notification procedures for developers

Measurable Goal 5.3.1 - The Town will develop a procedure to notify developers they should consider low impact development techniques. Though no date is specified in the General Permit for this requirement, the Town will complete this during Permit Year 2.

Permit Year	Description of Progress	Changes
1	No work required or completed this permit year.	None
2	The Town provides applicants with an EPA brochure describing the water quality and community benefits of LID.	This BMP is required by the General Permit but was omitted from the SWPM Plan. The BMP and measurable goal were added and completed this permit year.
3	Same as Permit Year 2	None
4		
5		

MCM 6 Pollution Prevention/Good Housekeeping for Municipal Operations

This program has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

MCM Goals:

- Maintain an updated inventory of all municipal operations conducted in, on, or associated with facilities, buildings, golf courses, cemeteries, parks and open space owned or operated by regulated MS4s that have the potential to cause or contribute to stormwater or surface water pollution.
- Continue to implement written operation and maintenance procedures for the facilities in the inventory to ensure long term operation of structural and non-structural controls that reduce stormwater pollution to the maximum extent practicable.
- Train employees on ways to prevent and reduce stormwater pollution from municipal operations and facilities.
- Continue to implement a program to sweep all publicly accepted paved streets and publicly owned paved parking lots as well as cleaning catch basins and other stormwater structures.
- Continue to maintain the conveyances, structures and outfalls of the regulated MS4.
- Continue to implement the Stormwater Pollution Prevention Plan for the Department of Public Works site.

For specific permit requirements and suggestions, refer to Part IV.H.6 of the General Permit.

BMP 6.1: Operations at Municipally Owned Grounds and Facilities

Measurable Goal 6.1.1 – During the previous permit cycle, the Town developed an inventory of all municipal operations conducted in, on, or associated with facilities, buildings, golf courses, cemeteries, parks and open space that have the potential to cause or contribute to stormwater or surface water pollution.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The Town reviewed the inventory of facilities. No changes to the inventory were deemed necessary.	None
2	Same as Permit Year 1	None
3	The inventory was updated to include Broad Cove Reserve, which was purchased by the Town and has walking trails and a restroom.	None
4		
5		

Measurable Goal 6.1.2 – The Town relies on the Standard Operating Procedures contained in the Stormwater Program Management Plan. The Town will continue to implement these SOPs at the

inventoried facilities in Town. The SOPs are kept at the facilities by the people responsible for implementing them.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	No changes to the SOPs were deemed necessary.	None
2	The Val Halla and Twin Brooks SOPs were reviewed and updated.	None
3	The Val Halla SOP was updated to incorporate rinsing of golf carts at the main club house. The Broad Cove Reserve SOP was created. The Twins Brooks SOP was updated to reflect that spills should be reported to the Parks Superintendent (not the Golf Course Superintendent)	None
4		
5		

BMP 6.2: Training

Measurable Goal 6.2.1 – Formal stormwater pollution prevention employee training is offered annually to public works and maintenance personnel. The trainings cover such topics as spill prevention and response, good housekeeping, operation and maintenance procedures, and materials management practices.

Reporting - Annual reports to DEP each year of the permit will include a status report on the development of the training program and number of employees trained.

Responsible Party: Public Services Director.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	Three Public Works employees, two Parks employees and the Public Services Administrative Assistant were trained on 10/20/2014 in the following topics: <ul style="list-style-type: none"> - MS4 Program in general - IDDE procedures for outfall inspections and ditch inspections - Oil Spill Prevention Control and Countermeasure requirements (for DPW facility) - Stormwater Pollution Prevention Plan requirements (for DPW facility) - Operations and Maintenance Procedures for the municipal operations facilities 	None

Permit Year	Description of Progress	Changes
	Two public works employees also attended the 6/5/2014 Highway Congress PPGH training provided by CCSWCD. Two public works employees were field trained in illicit discharge inspections on June 17, 2014.	
2	<ol style="list-style-type: none"> 1) The Public Services Administrative Assistant attended the 5/14/2015 training on PPGH presented by ISWG. 2) All four public works employees, the administrative assistant and the IT Manager attended the Integrated Environmental training on ditch and outfall inspections on 8/7/2014. 3) Ten Public Works and Parks Recreation employees attended a general MS4 training, with a facility specific review of the SWPPP, SPCC plans and Stormwater O&M Plans on 1/23/2015. 4) The Code Enforcement Officer attended the Maine Coastal Erosion Control Workshop on April 8, 2015. 5) The Parks and Recreation supervisor was trained on 5/27/2015 on Stormwater O&M Procedures for Twin Brooks. 	This BMP was renumbered 6.2. It was incorrectly numbered in the Stormwater Program Management Plan.
3	13 Public Works and Parks and Recreation employees were trained in the DPW SWPPP, the O & M Plans For Val Halla, Twin Brooks, and illicit discharge inspections and tracking on 5/5/2016.	None
4		
5		

BMP 6.3: Continue Street Sweeping Program

Measurable Goal 6.3.1 - Each permit year the Town will continue to sweep all publicly accepted paved streets and publicly owned paved parking lots at least once a year as soon as possible after snowmelt.

Reporting - Annual reports to DEP each year of the permit will include a status report on street sweeping.

Responsible Party: Public Services Director.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The Town began street sweeping as soon as possible after snow melt this Permit Year. A total of 177.5 cubic yards of material was removed from the streets via street sweeping.	None
2	The Town began street sweeping as soon as possible after snow melt this Permit Year. All roads and municipal lots were swept at least once, and some were swept a second time – 203 cy of material was removed from the streets	This information was corrected as noted in our

Permit Year	Description of Progress	Changes
	during the sweepings.	response to the Maine DEP annual report comments.
3	The Town began street sweeping as soon as possible after snow melt this Permit Year. Most roads were swept twice – 162 cy of material was removed from the streets during the sweepings.	None
4		
5		

BMP 6.4: Cleaning of Stormwater Structures Including Catch Basins

Measurable Goal 6.4.1 - The Town will inspect at least 50% of its catch basins each year, and will clean them if the sumps have accumulated sediment that fills more than 50% of the sump. Those catch basins that frequently accumulate excess sediment will be cleaned more frequently than every two years.

Reporting - Annual reports to DEP each year of the permit will include a status report on cleaning of catch basins.

Responsible Party: Public Services Director.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	All catch basins were inspected for sediment content. Of the 230 town-owned catch basins in the urbanized area, the Town removed 8.25 cubic yards of material from 139 catch basins. The Town also removed 8 cubic yards of material from the school district catch basins and catch basins that were outside the urbanized area.	None
2	All of the 291 town-owned catch basins in the urbanized area were inspected. 189 of the Town basins were cleaned, and 16.5 cubic yards of material was removed. The Town also removed 5 cubic yards of material from the school district catch basins.	None
3	All of the town-owned catch basins in the urbanized area were inspected. 371 (354 in the MS4 area) of the Town basins were cleaned, and 20.5 cubic yards of material was removed. The Town also removed 2 cubic yards of material from the school district catch basins.	
4		
5		

BMP 6.5: Maintenance and Upgrading of Storm water Conveyances and Outfalls

Measurable Goal 6.5.1 – The Town will continue to maintain and upgrade the stormwater conveyance systems based on its long term Capital Improvement Program.

Reporting - Annual reports to DEP each year of the permit will include a status report on the maintenance and upgrading of stormwater conveyances and outfalls.

Responsible Party: Public Services Director.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	A summary of the drainage repairs completed in town during Permit Year 1 is provided in Appendix D.	None
2	Nine culverts were repaired or replaced and repair to approximately 25 ditch areas was conducted, including roadside washouts. Other general maintenance was conducted as needed based on public works identification, or based on complaints by citizens.	Per DEP request, appendices have been removed from the Annual Report.
3	Forty-six driveway culverts were replaced during permit year 3. Also, due to an extensive paving and drainage project, 3800 feet of underground drainage piping was replaced and 750 feet of ditching was repaired. Other general maintenance was conducted as needed based on public works identification, or based on complaints by citizens.	None
4		
5		

BMP 6.6: Stormwater Pollution Prevention Plans (SWPPP's)

Measurable Goal 6.6.1 – During Permit Year 1, the Town will update the SWPPP for the Public Works Facility to conform to the conditions and requirements of the Maine Multi-Sector General Permit for Stormwater Discharge Associated with Industrial Activity published April 26, 2011. During subsequent permit years, the Town will implement the SWPPP, including conducting quarterly visual monitoring and quarterly housekeeping inspections.

Reporting - Annual reports to DEP each year of the permit will include a status report on the development of the SWPPP's.

Responsible Party: Public Services Director.

The following is a summary of the activities completed for this Measurable Goal. Any changes to the Measurable Goal are identified in the last column of the table.

Permit Year	Description of Progress	Changes
1	The SWPPP for the Public Works Facility was completed in September 2013. An Oil SPCC Plan was also prepared for the facility in September 2013.	None
2	An oil SPCC Plan was prepared for the Val Halla Maintenance facility. No significant changes to the SWPPP were made, but the facility was regraded, and some crushed rock was installed at the DPW facility to prevent channelization of runoff along the edge of the pavement.	None
3	The DPW SWPPP was updated to reflect revised stormwater infrastructure based on the 5/24/2016 DEP audit.	None
4		
5		

SECTION 3 GENERAL REQUIREMENTS

Certification

The General Permit requires that this Plan be certified by either a principal executive officer or ranking elected official. This section provides the necessary certification.

"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 gathered and evaluated 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: _____

William Shane

Date: _____

Title: Town Manager

