

# Lewiston Stormwater Phase II Annual Report

Permit Year 2 (June 3, 2004 - June 2, 2005)

## 1. Public Education and Outreach

### BMP Name

#### **BMP#1-1 Install Educational Kiosk**

The Lewiston bike path runs along the Androscoggin River, and over trestle bridges. A new kiosk, with a locked Plexiglas covering, is planned for near the path to inform bikers of path improvements, usage rules, etc. Stormwater information will be updated on this kiosk twice annually, to minimize yellowing and keep information looking fresh. The information will include actions and the reasoning behind the actions, such as "no littering" (to minimize debris in stormwater and surface water), "stay on path" (to reduce erosion), and "catchbasins are for stormwater only" (to prevent illegal dumping such as paint and oil into catchbasins).

Year 1

Year 2

Year 3

Year 4

Year 5

### **Actions Completed During Permit Year 1**

Kiosk Design

#### Responsible Party

Department of Public Services

A kiosk design is being discussed for the bike path. Initial materials to be placed in the kiosk were reviewed by stakeholders at the 5/19/2004 meeting. Materials will be printed and the kiosk will be constructed early in Permit Year 2.

### **Actions Completed During Permit Year 2**

Kiosk Installation

#### Responsible Party

Department of Public Services

The kiosk for the bike path was installed in June 2005. An additional kiosk has been constructed and will be installed at No Name Pond. A representative from the No Name Pond homeowners association will be provided with a key to the kiosk in order to replace materials. Informational posters for the kiosks were reviewed at the April 27, 2005 stakeholder meeting, and received positive reviews. There is excess space in the kiosks, and additional educational materials may be produced in the future.

### BMP Name

#### **BMP#1-2 Support No Name Pond Association**

*Original BMP Text: In the No Name Pond Watershed Management Plan, the City Council approved workshops to be held in conjunction with the No Name Pond Collaborators Group, No Name Pond Watershed Management Association (NNPWMA), MDEP, NRCS, and City staff. Although the classes may be held more often, stormwater topics, such as vegetated buffers, and erosion control for camp road improvements, will be included in the class at least once per year.*

*This BMP has been modified from the original Plan to account for all activities the City completes in support of the No Name Pond Watershed Management Plan (not just workshops).*

Year 1

Year 2

Year 3

Year 4

Year 5

# 1. Public Education and Outreach

## ***Actions Completed During Permit Year 1***

No Name Pond Activities Permit Year 1	<u>Responsible Party</u> Department of Planning and Code Enforcement
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The following summarizes the activities completed by the City of Lewiston in support of the No Name Pond Watershed Plan:

Assistance with Quarterly Newsletter: The No Name Pond Watershed Management Association publishes a newsletter on a quarterly basis to promote preservation of No Name Pond. The City of Lewiston provides postage for the quarterly mailings.

Contract for Annual Report of Volunteer Monitoring: The City of Lewiston pays the contract for Mr. Scott Williams to summarize data collected and prepare the annual monitoring report for No Name Pond.

Septic Survey of No Name Pond Properties: The City of Lewiston has hired Summit Environmental to complete a survey of septic systems for properties that are in the No Name Pond Watershed. The survey will identify failed septic systems, or properties that have no septic systems and will provide information on how the properties can repair or replace their septic systems. The survey will be completed in Permit Year 2.

The City may provide matching funds for a 319 grant that is being pursued by No Name Pond to address erosion issues.

AVSWCD completed a demonstration of the frontrunner grader equipment on a No Name Pond road in June.

## ***Actions Completed During Permit Year 2***

No Name Pond Activities Permit Year 2	<u>Responsible Party</u> Department of Planning and Code Enforcement
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The following summarizes the activities completed by the City of Lewiston in support of the No Name Pond Watershed Plan:

Assistance with Quarterly Newsletter: The City of Lewiston provided postage for the quarterly mailings again in Permit Year 2. The City provided general stormwater brochures to the Association for distribution at their annual meeting (July 26, 2005 25 brochures), with their newsletter (130 newsletters), and at the public library, city hall, and some local businesses.

Contract for Annual Report of Volunteer Monitoring: The City of Lewiston paid the contract for Mr. Scott Williams to summarize data collected and prepare the annual monitoring report for No Name Pond in 2004. Monitoring will be conducted bi-annually and will include volunteer data collected in the off-year.

Septic Survey of No Name Pond Properties: The survey of private septic systems in the No Name Pond Watershed was completed in Permit Year 2 by Summit Environmental. Two gray-water discharges were identified and eliminated, and one badly failing septic system was identified. The City is working with homeowners to correct the failures. The City may pay to connect the failing private septic system to a nearby community septic system.

The City is also supporting a Section 319 CWA grant that the Association received by providing in-kind services during grant execution. Eric Cousens, Lewiston Code Enforcement Officer attended a survey of the No Name Pond area to evaluate erosion sites, and attends most meetings for the grant. The City also provides permitting assistance for any permits required as part of the project.

The City is providing a workshop speaker to introduce small conservation practices to the association. Planning Activities for this workshop have occurred during Permit Year 2.

# 1. Public Education and Outreach

## BMP Name

### **BMP#1-3 Distribute Educational Information**

Educational information might include: The Watershed Management Plan, brochures on phosphorus control, vegetative buffers, septic maintenance, alternative lawn, gardening, and car washing techniques and products, such as the use of phosphate free products, wash vehicles on the lawn, etc, information regarding shoreland zoning, the Natural Resource Protection Act, and other relevant state and/or Federal regulations. Distribution may be by the City website, the NNPWMA website, newsletter, posters, classes and/or regular watershed status reports to Lewiston's Planning Board and the NNPWMA. By the end of Permit Year 2, distribution of educational information will be expanded to residents of the No Name Brook, which travels from No Name Pond to the Sabattus River, and is listed as an impaired waterbody by the state.

Year 1

Year 2

Year 3

Year 4

Year 5

### **Actions Completed During Permit Year 1**

Permit Year 1 Activities

#### Responsible Party

Department of Public Services  
Department of Development  
Division of Planning

The following activities have been completed during Permit Year 1 for this BMP:

Development of a General Public Education Brochure: A general brochure designed to raise awareness of stormwater issues was prepared for distribution via the following avenues: the City website, the kiosk at Railroad Park (see BMP 1-1), the Public Services/Public Works Department, and City Hall. The brochure was reviewed by the Lewiston Stakeholder Group at the May 19, 2004 Stakeholder Meeting and comments were addressed. The brochure will be translated into French, Spanish, and Somali for distribution during Permit Year 2.

Contribution to Mass Media Campaign: The MDEP focus groups held in the summer of 2003 identified, "most individuals lack basic knowledge about where stormwater goes and so stormwater is not a concern for them. They must first be aware of the issue. This suggests that a comprehensive mass communications effort is necessary before grass roots efforts are likely to have much of an impact." Based on this finding, the MDEP coordinated an effort to

### **Actions Completed During Permit Year 2**

Permit Year 2 Activities

#### Responsible Party

Department of Public Services  
Department of Development  
Division of Planning

The following activities have been completed during Permit Year 2 for this BMP:

The general awareness brochure created in Permit Year 1 was finalized, and was modified to become a regional brochure for distribution in Lewiston and Auburn. The brochure was shared with the Portland area Interlocal Stormwater Working Group for consideration as a media piece to disseminate. A modified regional stormwater awareness brochure was developed for distribution. The brochure was also shared with the New Hampshire Seacoast Coalition for possible use. No information was available regarding how many of these brochures the groups printed or distributed. The general awareness brochure was translated into Spanish, French, and Somali. Brochures were be printed and distributed in June 2005. Brochures will be placed in the Public Services/Public Works Department, City Hall, Androscoggin Valley Soil and Water Conservation District, and Androscoggin Valley Council of Governments.

The City of Lewiston participated in the Mass Media Campaign during Permit Year 2 by approving a contribution of \$3,400 through the Androscoggin Transportation Resource Center (ATRC). The

# 1. Public Education and Outreach

“Ducky” commercials will run in July in the Bangor area and in September in the Central and Southern Maine area. In conjunction with this effort, each community contributed \$82.15 to provide match to a Maine Outdoor Heritage Fund Grant to upgrade the ThinkBlueMaine.org website with better content. The commercials identify the website as a place to visit for additional information on how individuals can prevent stormwater pollution.

## BMP Name

### **BMP#1-4 Pooper-Scooper Ordinance**

Lewiston currently has a pooper-scooper ordinance, requiring pet owners to properly dispose of pet waste. This BMP was modified to remove the Plan's original component of conducting a review of the effectiveness of the ordinance in the first Permit Year. In place of this activity, a fact sheet will be generated describing the ordinance and the negative impacts pet waste has on water bodies. This fact sheet will be distributed to individuals when they purchase their dog licenses. This work will be completed during Permit Year 2.

Year 1

Year 2

Year 3

Year 4

Year 5

#### **Actions Completed During Permit Year 1**

Modified BMP

#### Responsible Party

Department of Public Services  
Police Department

This BMP was modified to remove the component of conducting a review of the effectiveness of the ordinance. In place of this activity, a fact sheet will be generated describing the ordinance and the negative impacts pet waste has on water bodies. This fact sheet will be distributed to individuals when they purchase their dog licenses. The work will be completed during Permit, Year 2.

#### **Actions Completed During Permit Year 2**

Modified BMP

#### Responsible Party

Department of Public Services  
Police Department

A tri-fold fact sheet describing the ordinance and the negative impacts pet waste has on water bodies was generated during Permit Year 2. This fact sheet was sent to all resident dog owners along with their notice to reapply for dog licenses. The brochure was shared with the Cities of Auburn, Maine and Somersworth, New Hampshire who distributed it with their dog license renewal notices.

## BMP Name

### **BMP#1-5 Education to Businesses**

The Department of Public Services will contact industrial, commercial, institutional, and governmental establishments in the City twice annually regarding stormwater management. In the fall, contact will likely consist of a brochure or fact sheet requesting that the establishment cover any salt or sand piles, use appropriate amounts of salt and sand (i.e. no over-use), and keep trash receptacles well maintained, including closing the dumpster lid to keep stormwater out. In the spring, contact will likely consist of a brochure or fact sheet requesting that establishments consider sweeping large parking lots, maintain trash receptacles, inspect private catch basins for excess debris or poor conditions, and prevent illegal dumping by employees. Both spring and fall communications will be available in French, Spanish, and Somali in conjunction with the City's Limited English Proficiency Plan (LEP), and will include links to State and EPA

# 1. Public Education and Outreach

web pages for an explanation of "why" these practices benefit surface water quality. The City will also consider conducting a review/survey of random businesses to determine the effectiveness of the brochures.

Year 1      Year 2      Year 3      Year 4      Year 5

## **Actions Completed During Permit Year 1**

Permit Year 1 Brochure  
The City of Lewiston stakeholders discussed preparation of an initial brochure targeting carpet cleaners to inform them of proper procedures to use in discharging trucks (not into the stormdrain system).

Responsible Party

Department of Public Services

The City will prepare the brochure and distribute it early in Permit Year 2.

## **Actions Completed During Permit Year 2**

Permit Year 2 Brochure

Responsible Party

Department of Public Services

Funds dedicated to development and distribution of the carpet cleaners' brochure planned for Permit Year 2 were set aside to be used in cooperation with the City of Auburn. On March 30 and April 28, 2005; students from the Androscoggin Valley Educational Collaborative (AVEC) conducted a survey of local businesses to evaluate their impact on stormwater quality. The students visited and evaluated 42 high priority businesses (commercial, industrial, and retail) belonging to the Androscoggin Valley Chamber of Commerce. Practices reviewed by the students included vehicle operations; outdoor material storage, use, and handling; waste management; impervious and pervious surfaces; and stormwater infrastructure. Information collected from these surveys is being evaluated and will be used to generate public education materials during Permit Year 3 for selected businesses from both Cities.

### BMP Name

### **BMP#1-6 Add Stormwater Information to City Website**

Information and links to websites giving additional educational information about stormwater quality will also be added to the website, including steps intended to reduce stormwater pollution from existing and new development. Information will be available in French, Spanish, and Somali in conjunction with the City's Limited English Proficiency Plan (LEP).

This BMP is being modified to include the development of a webpage dedicated to stormwater protection in addition to posting materials and links.

Year 1      Year 2      Year 3      Year 4      Year 5

## **Actions Completed During Permit Year 1**

Permit Year 1 Additions to Website  
The City of Lewiston will be developing a Stormwater Awareness web page for their website, and will add public education material to the website as it is generated. Materials that are currently planned for the website include: An introduction to Stormwater, the General Public Education Brochure, and the Five Year Stormwater Management Plan.

Responsible Party

Department of Public Services

Management Information Services

# 1. Public Education and Outreach

## ***Actions Completed During Permit Year 2***

Permit Year 2 Additions to Website Responsible Party  
Department of Public Services  
Management Information Services

The website is currently being revised to work in conjunction with the ThinkBlueMaine.org website, which was paid for by all 28 Maine communities regulated by Phase II. The website is planned to be fully operational during Permit Year 3.

### BMP Name

### ***BMP#1-7 Additional Items Completed***

*This BMP tracks items that were not originally part of the Lewiston Stormwater Management Plan, but were completed.*

Year 1                      Year 2                      Year 3                      Year 4                      Year 5

## ***Actions Completed During Permit Year 1***

Permit Year 1 Activities Responsible Party  
Department of Public Services

The following additional activities were not part of the Lewiston Plan, but were completed during Permit Year 1.

10/1/2003 Leaf Collection: The City of Lewiston collects leaves for composting in October and November each year. Curbside collection is offered. This activity is publicized on the City Website, and through the Public Works Quarterly Calendar.

3/1/2004 Article in Lewiston DPW/DPS Newsletter: The Department of Public Services published the "In Our Back Yard" Article from the MDEP as a follow up to the MDEP survey on stormwater. The article was titled, "The Real Truth About Storm Drains". The monthly newsletter is distributed to all DPW/DPS employees, and to the City Council.

4/1/2004 MDEP Surveys: MDEP developed a survey to assess the general awareness of stormwater as a potential water quality issue. MDEP requested that all 28 regulated MS4 communities distribute the survey to municipal employees and return the completed surveys to MDEP for tabulation. The City of Lewiston distributed 360 surveys to municipal employees at City Hall, and in the following departments: public works, public services, fire, and police. 150 surveys were completed and returned to MDEP for tabulation.

4/1/2004 Spring Cleanup: Spring Cleanup occurred during the month of April during Permit Year 1. The City offers curb side removal of bulk waste items such as wood, brush, furniture, carpet, and appliances. 527.88 tons of waste material was collected and properly disposed of under this program in 2004. Since this program began, the City has noticed a decrease in illegal dumping of these items. This activity is publicized through the City Website and the Public Works Quarterly Calendar.

4/24/2004 Community Clean Up and Celebration: A "Community Clean Up and Celebration", sponsored by Project Neighborhood, was held on Saturday, April 24, 2004.

Cleaning supplies were distributed to volunteer participants, who after being assigned to a team leader, cleaned up a green space and/or sidewalk. Free t-shirts were given to the first 50 volunteers.

6/1/2004 Source to the Sea Sponsorship: The City of Lewiston is cooperating with the City of Auburn to sponsor a speaker for the Lewiston/Auburn stop on the Source to the Sea Trek. The trek is organized by the Androscoggin River Watershed Council each year. Planning and

# 1. Public Education and Outreach

coordination activities for this event took place during Permit Year 1. The trek will occur during Permit Year 2.

5/2/2004 Lake Auburn Protection: The City of Lewiston holds a seat on the Board of Directors for the Lake Auburn Watershed Protection Commission and as such participates in protection of the Lake Auburn Watershed from stormwater pollution. The City has participated in the following activities in this respect: land purchase for riparian zone preservation, implementation of erosion control measures around the lake, development and implementation of a Forestry Management Plan for the Conservation Lands around the lake, and development and implementation of a Watershed Management Plan for the Lake. In addition, a brochure was sent to all 9,000 Lewiston customers describing the watershed and protection of the water body.

AVEC Program: The City of Lewiston Education Department participates in the Auburn Land Lab/Androscoggin Valley Educational Collaborative (AVEC). Gifted high school students attend and participate in a special curriculum monthly at the Auburn Land Lab. This year the students focused on stormwater as a learning area. 32 students from Auburn, Lewiston and Sabattus participate in the program. The students completed surveys of Auburn residents to assess their awareness of stormwater issues, and compared the results to the Maine Department of Environmental Protection survey completed by the 28 MS4 regulated communities. The students have conducted GPS surveying and water quality sampling and analysis to broaden their understanding of stormwater issues. The students also participated in a Stormwater Fair (April 30, 2004) by preparing educational materials for younger students (to be presented to the students in the morning of the fair), and preparing educational displays of their activities throughout the past school year.

## ***Actions Completed During Permit Year 2***

Permit Year 2 Activities	<u>Responsible Party</u> Department of Public Services
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7/20/2004 Source to the Sea Sponsorship: The City of Lewiston cooperated with the City of Auburn to sponsor a speaker for the Lewiston/Auburn stop on the Source to the Sea Trek. The trek is organized by the Androscoggin River Watershed Council each year. The two cities hired Aquarion Engineering Services to give a presentation on Stormwater Pollution Prevention. The presentation took place on the July 20, 2004 at Festival Plaza (the Lewiston Auburn stop on the Trek). Approximately 10 paddlers were present for the presentation.

10/1/2004 Leaf Collection: The City of Lewiston curbside leaf collection program was offered to citizens again during Permit Year 2 and was publicized on the City Website, and through the Public Works Quarterly Calendar.

11/1/2004 Through its Stormwater consultant, the City provided the Androscoggin River Watershed Council with an article on Stormwater Pollution Prevention titled, "Why we should all Think Blue". The article was published in the Fall 2004 Flowing Waters Newsletter.

2005 Spring Cleanup: Spring Cleanup occurred from April 11, 2005 through May 6, 2005 during Permit Year 2. The City offers curb side removal of bulk waste items such as wood, brush, furniture, carpet, and appliances. 512.7 tons of waste material was collected and properly disposed of under this program in 2004. Since this program began, the City has noticed a decrease in illegal dumping of these items. This activity is publicized through the City Website and the Public Works Quarterly Calendar.

5/7/2005 Community Clean Up and Celebration: A "Community Clean Up and Celebration", sponsored by Project Neighborhood, was held on Saturday, May 7, 2005. Cleaning supplies were distributed to volunteer participants, who after being assigned to a team leader, cleaned up a green space and/or sidewalk. Free t-shirts were given to the first 50 volunteers. The Cities of Lewiston and Auburn assisted by removing and disposing of all trash collected by volunteers.

5/2/2005 Lake Auburn Protection: The City of Lewiston continued to participate in the Board of Directors for the Lake Auburn Watershed Protection Commission.

# 1. Public Education and Outreach

6/1/2005: Storm Drain Stenciling – Ten AVEC students stenciled storm drains with the message “Keep It Clean – Drains To River”. The stencil incorporated the image of the rubber ducky, which was featured in the TV service announcement concerning stormwater quality. Fifty one storm drains were stenciled along River Street, Oxford Street, Lincoln Street, and at Lewiston High School. More stenciling will be planned later in Year 3. The event was featured in the Lewiston Sun Journal, the local daily paper.

6/1/2005 Great Falls TV aired the “Ducky” video 5-10 times per week for approximately one month during the Spring 2005 until they had a personnel shortage. It is planned that the “Ducky” video will resume airing in June and continue to run two to three times a week for the duration of the summer. The “After the Storm” and AVEC videos may also be aired one a week over the summer of Permit Year 3.

## 2. Public Participation/Involvement

### BMP Name

#### **BMP#2-1 Comply with State Public**

#### **Notification Guidelines**

The City is already meeting the minimum requirements for this control measure by complying with the state public notification guidelines. The City will continue to comply with these guidelines.

Year 1

Year 2

Year 3

Year 4

Year 5

#### **Actions Completed During Permit Year 1**

None invoked Permit Year 1

#### Responsible Party

City Clerk, Various Departments

No Public Notice Requirements were invoked during Permit Year 1 Activities.

#### **Actions Completed During Permit Year 2**

None invoked Permit Year 2

#### Responsible Party

City Clerk, Various Departments

No Public Notice Requirements were invoked during Permit Year 2 Activities.

### BMP Name

#### **BMP#2-2 Household Hazardous**

#### **Waste Collection Day**

The City will hold a hazardous waste collection day once a year for residents to drop off hazardous waste for proper disposal. The Household Hazardous Waste Day is a joint effort between Lewiston and Auburn. The City will monitor the number of people who participate, before and after promotional materials, to determine what the beneficial methods are for the collection program to be successful.

Year 1

Year 2

Year 3

Year 4

Year 5

#### **Actions Completed During Permit Year 1**

HHHW Day Permit Year 1

#### Responsible Party

Department of Public Services

Household hazardous waste was collected from the public on Saturday, September 27, 2003. The program is sponsored jointly by the Androscoggin Valley Council of Governments, the City of Lewiston, and the City of Auburn. The following methods were used to publicize the event:

8,000 brochures were distributed by AVCOG advertising the event. An announcement was printed in the July-September 2003 Public Works Quarterly Calendar, which is distributed to the public.

93 Lewiston Residents brought in 895 gallons of hazardous materials during this program.

## 2. Public Participation/Involvement

### **Actions Completed During Permit Year 2**

HHHW Day Permit Year 2 Responsible Party  
Department of Public Services

Household hazardous waste was collected from the public on Saturday, September 25, 2004. The event was held at the Lewiston Public Works facility and pre-registration was required. 125 Lewiston residents brought in 1,400 gallons of hazardous materials and universal wastes this year. This was a 25% increase in participation from Permit Year 1. The program was advertised by press release to local newspapers, radio and new stations. A permanent facility for accepting hazardous waste is being built at the Lewiston Waste Facility and Landfill, and will be owned by AVCOG and operated by Environmental Projects Inc. Construction of the facility began in Permit Year 2. Operation will begin in Permit Year 3. The facility will be open one day per week during spring, summer, and fall. The residents of the City of Lewiston will be able to use this facility to dispose of their hazardous waste based on a voucher system. An official stormwater component will be added to the advertisement of the new facility on the [www.avcog.org](http://www.avcog.org) website in Permit Year 3.

#### BMP Name

#### **BMP#2-3 Volunteer Monitoring Program at No Name Pond**

*The No Name Watershed Management Plan (adopted July 2001) includes a strategy of establishing a citizen-based water-quality monitoring program, with consistent quality control and program evaluation. Such a program will be very useful in helping residents gain an understanding of their impacts on the water quality, as well as giving them a personal stake in the water body - two of the goals of Control Measure 2 - Public Participation.*

Year 1                      Year 2                      Year 3                      Year 4                      Year 5

### **Actions Completed During Permit Year 1**

Permit Year 1 Support Responsible Party  
Department of Planning and Code Enforcement

The volunteer monitoring program for No Name Pond is conducted in accordance with the No Name Pond Watershed Management Plan. The City of Lewiston assists with this program through paying for the annual monitoring report as described in BMP 1-2.

### **Actions Completed During Permit Year 2**

Permit Year 2 Support Responsible Party  
Department of Planning and Code Enforcement

The City of Lewiston continued to assist with this program through paying for the annual monitoring report as described in BMP 1-2.

#### BMP Name

#### **BMP#2-4 Publicize Stormwater Hotline**

*Currently, residents with stormwater complaints may call City Hall or the Department of Public Works. For this BMP, a hotline will be publicized and maintained for residents of both separated and combined sewer system neighborhoods to register comments and complaints with the City. As combined sewer systems*

## 2. Public Participation/Involvement

are separated (underway across the City) or updated, residents will be able to use the familiar hotline to contact the City. Publicity for the hotline and hotline recorded message will be in several languages to encourage minority populations to register comments and complaints. All public complaints and City responses will be logged into the ASIST database.

Year 1

Year 2

Year 3

Year 4

Year 5

### **Actions Completed During Permit Year 1**

Hotline Planning

Responsible Party

Department of Public Services  
Department of Public Works

The City of Lewiston will use the Public Works dispatch number as a hotline. This number will be used as the hotline for citizen complaints for illicit discharges also. The phone number has been added to a general public education brochure (see BMP 1-3) and will be added to other publicity as appropriate on public education and outreach materials as appropriate.

Complaints received by this number will be logged into the work order system already used by the Public Works Department to address other citizen complaints and issues.

### **Actions Completed During Permit Year 2**

Hotline Planning

Responsible Party

Department of Public Services  
Department of Public Works

The public works customer service number was advertised as a location to report stormwater issues on the brochures described in BMP 1-3, and will be added to the website described in BMP 1-6. Customer service began tracking stormwater related issues in March 2005 by specifying the type of issue as, "Pollution-Water". As of June 2, 2005 four (4) issues had been reported for this category. All were minor spills and had been resolved by June 2, 2005.

### BMP Name

### **BMP#2-5 Accept Public Comment of Stormwater Plan**

The state encourages Lewiston to accept public comment on the stormwater management plan. During the first permit year, a presentation on the Stormwater Program Management Plan will be made at a public meeting of the City Council. The public will have the opportunity to comment at that time, or to submit written comments. Any necessary modifications/additions will be addressed at that time. In addition, a public presentation will be made of the Plan in the final year of the permit term, so that the public can comment on programs that should be continued or discontinued for the next permit term. At the presentation, the City will encourage the public to form volunteer groups that will maintain local streams or hold volunteer cleanup days.

Year 1

Year 2

Year 3

Year 4

Year 5

### **Actions Completed During Permit Year 1**

Preparation for Public Meeting

Responsible Party

Department of Public Services  
Department of Public Works

The City Council Meeting will be held early during Permit Year 2. Planning for this meeting occurred during Permit Year 1. It should be noted that the City's Stormwater Management Plan will be posted on the website for public information.

## 2. Public Participation/Involvement

### ***Actions Completed During Permit Year 2***

Scheduling of Public Meeting	<u>Responsible Party</u> Department of Public Services Department of Public Works
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The date of this meeting was delayed due to the number of other items that were planned for Council Workshops during Permit Year 2 (Attempts to get on the agenda began in August 2004). The City's Stormwater Management Plan has been added to the website that is currently being developed and should be completed early in Permit Year 3. Presentation of the Stormwater Management Plan has been scheduled for June 21, 2005.

### 3. Illicit Discharge Detection and Elimination

BMP Name

**BMP#3-1 Develop and Present Draft Storm Sewer Ordinance**

The City will review existing ordinances and determine the needs for additional authority. If required, a storm sewer ordinance prohibiting illicit connections will be drafted. The City Council must approve the draft storm sewer ordinance for it to take effect. As such, the draft ordinance will be presented to the City Council in the spring of 2005, and each spring thereafter until it is approved.

Year 1      Year 2      Year 3      Year 4      Year 5

#### **Actions Completed During Permit Year 1**

	<u>Responsible Party</u>
Permit Year 1 Activities	Department of Public Services

The Lewiston Legal Counsel, Mr. Martin Eisenstein of Brann & Isaacson reviewed and commented on the Sample Ordinance prepared by Jim Katsiaticas of Maine Municipal Association (MMA). Comments included

1. A recommendation to include an illicit connection definition, and a prohibition of illicit connections, and
2. Addition of a section titled, "ultimate liability of discharger" which states that the ordinance sets minimum standards, but that compliance does not guarantee that no pollution will occur, and that the municipality assumes no liability, and
3. Adding a requirement for a discharger to monitor (currently the ordinance says the enforcement authority may monitor a discharge).

In Lewiston, prohibition of illicit discharges will be developed through a policy referenced by Article II Sewers & Drains in Chapter 74 of the Lewiston Code of Ordinances. The MMA Sample Ordinance will be the basis for the Lewiston Policy.

#### **Actions Completed During Permit Year 2**

	<u>Responsible Party</u>
Permit Year 2 Activities	Department of Public Services

The City of Lewiston will not use a policy approach to prohibiting illicit discharges, they will use the Sample MMA Ordinance, and incorporate it into Chapter 74, Sewer and Drains as a new Section 74-69. The ordinance is in final draft form and will be presented to the Planning Board and City Council in Permit Year 3 prior to adoption.

### 3. Illicit Discharge Detection and Elimination

BMP Name

**BMP#3-2 Prioritize Watersheds, Waterbodies, and Streams**

The City will review its watersheds, waterbodies, and streams to determine "sensitive areas". Sensitive areas will include the Androscoggin River, Jepson Brook, No Name Pond Brook and Stetson Brook, which are located on the 303(d) list of impaired waters for Lewiston. These will also include swimming beaches, recreational sites, wellhead protection areas, or surface waters of public concern. Outfalls in higher priority watersheds, waterbodies, and streams will be screened first (BMP #3-3). Similar to BMPs 1-2, 1-3, and 2-3, appropriate BMP(s) will be added to improve the water quality of the state listed impaired waterbodies by the end of Permit Year 3.

Year 1                      Year 2                      Year 3                      Year 4                      Year 5

**Actions Completed During Permit Year 1**

No Work Required Permit Year 1                      Responsible Party  
Department of Public Services

No work is required to be completed during Permit Year 1.

**Actions Completed During Permit Year 2**

Watershed Priorities Complete                      Responsible Party  
Department of Public Services

Aquarion Engineering Services completed an evaluation of eight drainage areas in the City of Lewiston. The evaluation was completed using a protocol described by the Center for Watershed Protection, as a basis.

Ten criteria were evaluated for each of the eight areas to assess which drainage area has the highest potential for illicit discharges. Each drainage area received a final score between 1 (low priority) and 3 (high priority). The resulting priority list is shown below (scores for each area evaluated are shown in parentheses):

1. Jepson Brook Drainage Area (2.9)
2. Gully Brook Drainage Area (2.7)
3. Hart/Dill/Goff Brooks Drainage Area (2.7)
4. No Name Brook Drainage Area (2.0)
5. Stetson Brook Drainage Area (1.6)
6. Intermittent Brook A Drainage Area (1.5)
7. Intermittent Brook B Drainage Area (1.0)
8. Moody/Salmon Brooks Drainage Area (1.0)

This evaluation will be updated periodically as new data becomes available. The information will be used to develop a schedule of inspections for the system and to identify BMPs that could improve water quality in the drainage areas.

### 3. Illicit Discharge Detection and Elimination

BMP Name

**BMP#3-3 Outfall Dry Weather Screening Program**

Dry weather screening of outfalls is a relatively easy and efficient way to search for illicit discharges. The screening identifies suspect outfalls based on suspicious odors, colors, or constituents in discharge. The suspect outfalls are then prioritized for further investigation so the source of the discharge can be found. In addition, dry weather screening helps to identify and map the outfalls, also a requirement of the permit. Lewiston will screen each stormwater outfall greater than 18" during the permit term. As smaller outfalls are located, they too will be screened, but the program will not focus on the smaller outfalls. The City will use GIS equipment to get accurate information for the GPS mapping. Note that further dry weather screening (i.e. a second round) is recommended for future permit terms, as one visit to each outfall may not catch all illicit connections, and because conditions at the outfalls may change.

Year 1      Year 2      Year 3      Year 4      Year 5

**Actions Completed During Permit Year 1**

	<u>Responsible Party</u>
Permit Year 1 Dry Weather Screening	Department of Public Services

Although no dry weather screening of outfalls for illicit discharges was required to be completed during Permit Year 1, the City of Lewiston did complete some inspections during a dry weather (no precipitation for 3 days) mapping event in the Canal Area (see BMP 3-5). The condition and observations of flow were noted during the mapping event. No evidence of illicit discharges was obtained during this mapping event. Future mapping events will include notations of any evidence of illicit discharges.

**Actions Completed During Permit Year 2**

	<u>Responsible Party</u>
Permit Year 2 Dry Weather Screening	Department of Public Services

In November 2004, Aquarion Engineering conducted mapping and Dry Weather Inspection of 30% of Lewiston's estimated 370 stormwater outfalls along the Canal and the Androscoggin River. Four high-priority outfalls were identified during the inspection with light to steady discharge, foaming and/or growth. These outfalls are each being investigated. Nine other outfalls were identified as medium to low priority. These had low to no discharge and/or required maintenance. Additionally, eleven outfalls were identified that require modification to meet best management practices, such as replacing and stabilizing soils around the outlets that have eroded. The next priorities for inspection and mapping will be upper Androscoggin River, Gully Brook, and Jepson Brook.

BMP Name

**BMP#3-4 Detection and Elimination of Illicit Discharges**

Lewiston has developed a system for detection and elimination of illicit discharges. City employees look for and notify supervisors of any illicit connections or illegal dumping found, and also use the closed circuit television "trailer" and other regularly scheduled inspections to look for illicit connection in the system. Once an illicit connection is found, the property owner is contacted for removal. Illegal dumping sites are cleaned up with the assistance of the fire department (if hazardous).

Year 1      Year 2      Year 3      Year 4      Year 5

### 3. Illicit Discharge Detection and Elimination

#### ***Actions Completed During Permit Year 1***

Permit Year 1 IDDE Responsible Party  
Department of Public Services

During the City's CSO program, illicit discharges are identified and corrected before separation of sanitary and storm sewers occurs. The City purchased smoke testing apparatus and smoke tested 31,000 lineal feet of sewer prior to separation this year.

In addition, during the CSO program, the City performs televising of selected lines to identify connections in selected problem areas prior to construction. During Permit Year 1, approximately 1,500 linear feet of sewer were televised prior to separation.

These activities ensure that laterals are correctly connected to either the storm drain or the sanitary sewer during construction, thus minimizing the potential for illicit connections in the storm drain system.

Specific illicit discharges identified during Permit Year 1 are summarized as follows:

Water Street Outfall: Two connections into a CSO overflow were identified on Lincoln Street to be bathroom connections. These laterals were reconnected to the main interceptor line.

EZ Rental: The facility spilled oil in the parking lot. The oil was transported into a catchbasin. The MDEP was on site for the clean up. The owner has been instructed to place a trap in the catchbasin, regularly clean the catchbasin, and develop a Spill Prevention Control and Countermeasure Plan.

A complaint was logged by a citizen relating to a 3x7 box culvert on Gully Brook that is missing a head wall. This issue is being addressed.

#### ***Actions Completed During Permit Year 2***

Permit Year 2 IDDE Responsible Party  
Department of Public Services

The City did not conduct CSO work involving smoke testing during Permit Year 2. CSO work involving smoke testing is scheduled for Permit Year 3.

Specific illicit discharges identified during Permit Year 2 are summarized as follows:

Central Maine Medical Center helicopter pad:

The City of Lewiston received a notice from LAWPCA that CMMC was discharging de-icing fluids from their helicopter pad into the storm drain system. The SIC code for non-scheduled air transportation services, including air ambulance services, is 4522, which is regulated by the Multi Sector General Permit for Industrial Activities. As a requirement of the MSGP program, CMMC is required to notify the city they are discharging to the storm drain system. The City of Lewiston will notify the MDEP of the situation

### 3. Illicit Discharge Detection and Elimination

BMP Name

**BMP#3-5 Map Outfalls and Receiving Waters**

The City of Lewiston is constructing a Geographic Information System (GIS) electronic map of the storm sewer system. System attributes include all known outfalls, pipe size and material, flow direction, manholes, and catch basins. Receiving waters are shown. This map will be updated to include known outfalls and newly GPS located outfalls. It will also be updated to incorporate changes determined during future illicit connection, dry weather field screening, and combined sewer separation projects

Year 1                      Year 2                      Year 3                      Year 4                      Year 5

**Actions Completed During Permit Year 1**

Permit Year 1 Mapping Responsible Party  
Department of Public Services

The City of Lewiston began GIS mapping of its infrastructure and systems in 1996. The mapping is available to the public on its internet site through Internet/Intranet Mapping Services, an interactive program that allows internet users access to the mapped information. The City has completed mapping of most of its storm drain system in Permit Year 1. Most catch basin locations were located from an aerial survey. The storm drain lines were imported to the GIS system from existing paper maps. The Canal Area was mapped in the Fall of 2003 using traditional survey equipment (Leica TCR 305 total station) and was imported into the GIS map for the City. This mapping event located approximately 80 outfalls in the Canal Area. The City of Lewiston estimates they have a total of 370 outfalls.

Subsequent mapping work to be completed includes confirmation of the catch basin, outfall and storm drain lines that were imported from the aerial photographs and paper maps. This work will be completed in conjunction with construction projects as they occur. In addition, future work includes development of a numbering system for outfalls and correlating the outfalls to a database for inspection information.

**Actions Completed During Permit Year 2**

Permit Year 2 Mapping Responsible Party  
Department of Public Services

In November 2004, Aquarion Engineering conducted GPS mapping (field checking) of 30% of Lewiston's estimated 370 stormwater outfalls. Mapping occurred along the Canal and the Androscoggin River. The next priorities for inspection will be upper Androscoggin River, Gully Brook, and Jepson Brook.

## 4. Construction Site Runoff Control

BMP Name

**BMP#4-1 Rely on MCGP for  
Construction Site Runoff Controls**

The City of Lewiston will rely on the MCGP for compliance with construction site runoff for disturbed sites greater than one acre. The City will update their building permit to include a method for notifying construction site developers and operators of the requirements for registration under the MCGP for the discharge of stormwater associated with construction activities disturbing more than one acre.

Year 1

Year 2

Year 3

Year 4

Year 5

### **Actions Completed During Permit Year 1**

Building Permit Modified

Responsible Party

Department of Planning and Code  
Enforcement

The City of Lewiston has modified their building permit application form to include a question to trigger awareness of the MCGP. The application asks if the applicant will disturb one acre or more of soil, and informs them they are subject to the MCGP if they do. The application states they should contact the MDEP to obtain a copy of the MCGP, and states they will need to prepare an Erosion and Sedimentation Control Plan, and submit a Notice of Intent to MDEP. The modified application will be used beginning early in Permit Year 2.

In addition, the City has modified their Design Development Standards Document to include the MCGP requirement. This document is used and distributed by all City employees to clarify the requirements for submitting development projects to the development review process.

### **Actions Completed During Permit Year 2**

Building Permit Modified

Responsible Party

Department of Planning and Code  
Enforcement

The City of Lewiston began using the modified Building Permit Application including information on the MCGP during Permit Year 2.

## 4. Construction Site Runoff Controls

### BMP Name

#### **BMP#4-2 Receipt and Consideration of Public Comment**

Site operators are required to notify abutters as part of the plan approval process. The public has the opportunity to comment on projects that go through Development Review. Residents may also voice concerns through a phone call to the Department of Public Works or City Hall. This procedure will be reviewed and updated, as necessary, to address construction sites disturbing more than one acre in conjunction with the stormwater and combined sewer hotline (BMP #2-4).

Year 1

Year 2

Year 3

Year 4

Year 5

#### **Actions Completed During Permit Year 1**

Permit Year 1 Planning Board Activities	<u>Responsible Party</u> Department of Planning and Code Enforcement
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During Permit Year 1, approximately 31 projects went through the Development Review Process. Some of the projects that go through Development Review are less than one acre. A portion of the Development Review Projects require submittal of a Sedimentation and Erosion Control Plan (but not all, approximately 20 projects were for major buildings and subdivisions, and required Sedimentation and Erosion Control Plans). All abutters were notified of these projects as required by the City, and were invited to comment on the activities presented to the Board.

Review of notification and comment procedures showed that no revisions to the procedures are necessary this permit year.

#### **Actions Completed During Permit Year 2**

Permit Year 2 Planning Board Activities	<u>Responsible Party</u> Department of Planning and Code Enforcement
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During Permit Year 2, approximately 47 projects went through the Development Review Process. Some of the projects that go through Development Review are less than one acre. A portion of the Development Review Projects require submittal of a Sedimentation and Erosion Control Plan (but not all, approximately 28 projects were for major buildings and subdivisions, and required Sedimentation and Erosion Control Plans). All abutters were notified of these projects as required by the City, and were invited to comment on the activities presented to the Board.

Review of notification and comment procedures showed that no revisions to the procedures are necessary this permit year. The City also adopted a local erosion and sediment control ordinance so they can conduct their own enforcement.

### BMP Name

#### **BMP#4-3 Construction Site Inspection**

Currently, the City conducts routine site inspections of construction sites prior to, during, and after construction. The Site operator is also required to conduct regular inspections to ensure erosion controls are functioning properly. Erosion and sediment controls, such as silt fences and hay bales, and construction material storage, such as sand piles and cement, will be added to the list of items City site inspectors investigate during a routine site inspection of construction sites disturbing more than one acre. To coordinate this work, the City will prepare a checklist of stormwater issues and potential water quality

## 4. Construction Site Runoff Controls

*impacts for developers and contractors, including proper installation, inspection and sequencing of erosion and sediment controls, and management of construction materials and construction wastes, including keeping out of surface water bodies, in accordance with the MCGP. In this way, developers and contractors would be aware of the things for which site inspectors will be looking.*

Year 1

Year 2

Year 3

Year 4

Year 5

### ***Actions Completed During Permit Year 1***

No Work Required Permit Year 1

Responsible Party

Department of Planning and Code Enforcement

No work is required to be completed for this BMP during Permit Year 1.

### ***Actions Completed During Permit Year 2***

Work Completed Permit Year 2

Responsible Party

Department of Planning and Code Enforcement

The City developed a checklist of stormwater issues and potential water quality impacts for developers and contractors, including proper installation, inspection and sequencing of erosion and sediment controls, and management of construction materials and construction wastes, including keeping out of surface water bodies, in accordance with the MCGP.

According to the Maine Department of Environmental Protection, six sites in Lewiston issued Notices of Intent for the MCGP. Lewiston's Code Enforcement Officer has seen all 6 of these NOIs, and has conducted 37 inspections on these sites. Most erosion/sediment control issues identified by the Code Enforcement Officer were corrected voluntarily by the contractor. Twelve (12) sites were referred to the MDEP for enforcement because the contractor would not voluntarily correct the sediment/erosion control issue.

## 5. Post Construction Runoff Control

### BMP Name

#### **BMP#5-1 Runoff Controls for Projects Disturbing More Than One Acre**

The Phase II regulations require stormwater runoff controls in new developments and re-development projects disturbing more than one acre of land. Lewiston recently adopted an expansion of review authority to cover stormwater controls. The City's current ordinances and authority will be reviewed to determine if they meet the intent of Phase II, including requirements for long-term operation and maintenance of installed BMPs. If necessary, the ordinance will be revised to ensure long-term operation and maintenance of BMPs. The ordinance will also reference an appropriate, Maine specific, BMP manual.

Year 1

Year 2

Year 3

Year 4

Year 5

#### **Actions Completed During Permit Year 1**

	<u>Responsible Party</u>
No Work Required Permit Year 1	Department of Public Services

Although no work was required to be completed for this BMP during Permit Year 1, the City of Lewiston completed the following:

The City provided Mr. David Ladd (MDEP) with copies of the relevant ordinances related to Post Construction Runoff Control (From Appendix A of the Zoning and Land Use Code, Article XIII Development Review and Standards, and Article XII Performance Standards).

Mr. Ladd gave verbal approval that these modifications fulfill the requirements of the Post Construction Minimum Control Measure for this General Permit. The City is awaiting written approval from MDEP.

#### **Actions Completed During Permit Year 2**

	<u>Responsible Party</u>
Impact of Chapter 500 Revisions	Department of Public Services

The Chapter 500 Regulations went before the Maine Legislature in February 2005. Aquarion presented a table outlining the Chapter 500 Stormwater regulations at the April 27, 2005 stakeholder meeting, and described how it would impact the Stormwater Phase II Program. The Chapter 500 regulations may meet the Post Construction Runoff Control minimum measure for the Phase II communities. The communities will need to revise their ordinances to reflect the new state requirements. The Chapter 500 Regulations are anticipated to become Rules in the Fall 2005 (Permit Year 3).

## 5. Post Construction Runoff Control

### BMP Name

#### **BMP#5-2 BMP Manual for Use by Planners and Developers**

The City currently recommends that planners and developers use MDEP's standards, as described in the recently updated MDEP publication "Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices" (March 2003). This publication should be reviewed to ensure that it is specific as to construction and long-term maintenance of BMPs, for instance describing the proper way to install a silt fence, appropriate locations of detention ponds, etc. Site inspectors and plan reviewers should each receive a copy of the applicable sections of the selected BMP manual. Examples of other appropriate manuals include the US EPA's Menu of BMPs ([www.epa.gov/npdes/menuofbmps](http://www.epa.gov/npdes/menuofbmps)).

Year 1

Year 2

Year 3

Year 4

Year 5

#### **Actions Completed During Permit Year 1**

BMP Manual Selected

#### Responsible Party

Department of Planning and Code Enforcement

The "Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices" (March 2003) has been selected. The City Ordinance referencing this manual will need to be updated to refer to the "current version" of the Handbook, or the Ordinance will need to be updated to reflect revised versions as they are published.

In addition, the City has modified their Design Development Standards Document to include the requirement to use the BMP Handbook. The Design Development Standards are used by and distributed by all City employees to clarify the requirements for submitting development projects to the development review process.

#### **Actions Completed During Permit Years 2-5**

No work was required to be completed for this BMP during Permit Years 2-5.

## 6. Pollution Prevention/Good Housekeeping

### BMP Name

#### **BMP#6-1 Catchbasin Cleaning Program**

Lewiston's catchbasins are cleaned on a rotating schedule, with high priority catchbasins, near ponds or other environmental resources, cleaned annually. Catchbasins tending to fill up more frequently are also cleaned more regularly than others. The City will continue this program. In addition, the City plans to continue to keep good records of when catchbasins were cleaned and how full they were, to better schedule regular cleaning. Information on catchbasin cleaning will be logged into the Asist database.

Year 1

Year 2

Year 3

Year 4

Year 5

### **Actions Completed During Permit Year 1**

#### Responsible Party

Permit Year 1 CB Cleaning

Department of Public Works

The City tracks catch basin cleaning from April through November for the entire City (inside and outside the urbanized area). For the time period April 2003 to November 2003, 1718 Catch basins were cleaned. 319 cubic yards of material were removed from the catch basins during this cleaning.

The current listing of catch basin cleaning priorities is dated 1994. The listing will be updated using 2003 and 2004 data collected to ensure: (1) the listing contains all catch basins in the urbanized area, not just CSO catch basins, and (2) that the priorities are still appropriate (e.g., that catch basins with higher accumulations of sediment have higher priority than those with less sediment).

The City purchased a new catch basin vacuum truck to replace an older unreliable unit. This \$150,000 piece of equipment is expected to be delivered in July 2004.

### **Actions Completed During Permit Year 2**

#### Responsible Party

Permit Year 2 CB Cleaning

Department of Public Works

Between April 2004 and November 2004, the City of Lewiston cleaned 1923 catchbasins, removing 407.5 cubic yard of material. Catchbasin cleaning that began on April 5, 2005 will be reported for Permit Year 3.

During the May 2004 Lewiston Stakeholder meeting it was identified that the priorities for catch basin cleaning have not been evaluated since 1994, and should be re-evaluated. During Permit Year 2, the City reviewed catch basin cleaning logs completed by the City in 2004, and summarized the results. While the results were initially inconclusive, Aquarion did work with the City to modify data collection procedures so that 2005 data collected will be more reflective of quantities of material removed, and may be more informative. During Permit Year 3, the City will review and summarize the 2005 data collected and will compare the results to the 2004 data. The City will also compare the results to the areas where the City uses sand to assess whether there is a direct correlation between sand use and quantity of material collected.

## 6. Pollution Prevention/Good Housekeeping

### BMP Name

#### **BMP#6-2 Street Sweeping Program**

The City currently sweeps streets and publicly owned parking lots continually from spring to winter until freezing conditions prevent sweeping. In the spring, sweeping occurs as soon as possible after winter snowmelt, generally finishing sweeping of all streets by the end of July. Throughout the rest of the year, streets are swept on an as-needed basis, with some streets swept two or three times per week. The current program meets the Phase II requirements, and will continue.

Year 1      Year 2      Year 3      Year 4      Year 5

#### **Actions Completed During Permit Year 1**

Permit Year 1 Street Sweeping      Responsible Party  
Department of Public Works

All public roads and parking areas are swept once per year by the end of June. From July to October, the downtown areas are swept weekly at night. Approximately 3,650 cubic yards of material was removed from streets through street sweeping during Permit Year 1 (Based on data in the Lewiston CSO report for the summer of 2003).

New Street Sweeper:  
The City of Lewiston purchased a new, efficient street sweeper in April 2003.

#### **Actions Completed During Permit Year 2**

Permit Year 2 Street Sweeping      Responsible Party  
Department of Public Works

By October 2004 approximately 3,350 cubic yards of material was removed through street sweeping. The City continues to sweep all public roads and parking areas once per year by the end of June, and downtown areas weekly from July to October.

### BMP Name

#### **BMP#6-3 Disposal of CB Cleaning and Street Sweeping Residuals**

The residuals generated from street sweeping and catchbasin cleaning are currently transported to the City's landfill for processing, decanting, and proper disposal. The City will continue to follow these standard operating procedures (SOPs).

Year 1      Year 2      Year 3      Year 4      Year 5

#### **Actions Completed During Permit Year 1**

Permit Year 1 Activities      Responsible Party  
Department of Public Works

Catch basin cleaning residuals were managed in accordance with the City's SOPs.

## 6. Pollution Prevention/Good Housekeeping

### **Actions Completed During Permit Year 2**

Permit Year 2 Activities Responsible Party  
Department of Public Works

Catch basin cleaning residuals were managed in accordance with the City's SOPs (at the Lewiston Solid Waste Facility's secure landfill). This method for disposal is described in the Lewiston Solid Waste Facility's Operation Manual, which was revised and approved by MDEP in 2004.

#### BMP Name

#### **BMP#6-4 Minimize Sand Usage and Maintain Cover over Salt Storage Area**

*Lewiston currently minimizes the use of salt and sand on winter streets by calibrating the sanders annually. The City will continue to follow this policy. In addition, the City maintains a covered salt shed for storage of road salt. The City will also monitor industry standards and practices to evaluate new technologies that may cost-effectively minimize salt and sand usage and associated environmental impact.*

Year 1      Year 2      Year 3      Year 4      Year 5

### **Actions Completed During Permit Year 1**

Permit Year 1 Activity Responsible Party  
Department of Public Works

Calibration of the salt/sand trucks is completed every fall. The salt/sand trucks are calibrated to control the amount of sand or salt spread on streets depending upon the weather conditions during each individual storm. The City applies sand or salt to streets as recommended by the Maine Department of Transportation and the Salt Institute. Depending upon the weather conditions and type of storm, this amount can vary from 100 to 800 pounds of salt or sand per lane mile of road.

The City of Lewiston uses an aggressive salt priority program, where straight salt is used on many of the City's streets instead of a sand/salt mix. This program greatly reduced the amount of sand placed upon City streets during the winter. By doing this, the City:

1. Saved resources by limiting the amount of sand needed. (Only 3,000 cubic yards of sand was used during the winter of 2003-2004 as opposed to 12,000 - 14,000 cubic yards in past years)
2. Significantly reduced the amount of sand on the streets needing to be swept up in the spring
3. Significantly reduced the amount of sand, which was transported to the City's storm drain system reducing the amount of material needing to be cleaned out of stormwater catch basins and structures.
4. Significantly reducing the amount of sand transported to surrounding streams, waterbodies, and the environment

## 6. Pollution Prevention/Good Housekeeping

### **Actions Completed During Permit Year 2**

Permit Year 2 Activity Responsible Party  
Department of Public Works

The City calibrated its salt/sand trucks in the Fall of 2004 as they did for 2003.

#### BMP Name

#### **BMP#6-5 Snow Disposal**

The City currently disposes of snow in a MDEP approved and licensed snow-dumping area on River Road (approved July 18, 2002 Permit number BEP LK/L20867 AN/L20867 BN). The area is enclosed by a dike and cleaned up each year after snow melts entirely.

Year 1      Year 2      Year 3      Year 4      Year 5

### **Actions Completed During Permit Year 1**

Permit Year 1 Activity Responsible Party  
Department of Public Works

The snow dump area consists of a detention pond with a controlled outlet device. The snow is dumped directly into the detention pond as it is removed from city streets. After the snow has melted, the detention pond is cleaned of litter and debris that had accumulated from the collected snow. This practice prevents the debris and sediments from discharging into the Androscoggin River. During Permit Year 1, the snow was completely melted in August 2003. The area was cleaned as soon as the snow melted.

### **Actions Completed During Permit Year 2**

Permit Year 2 Activity Responsible Party  
Department of Public Works

Lewiston managed snow and residuals as described under Permit Year 1 Actions. During Permit Year 2, the snow was completely melted in August 2004. The area was cleaned as soon as the snow was completely melted.

#### BMP Name

#### **BMP#6-6 Inspect Stormwater Structures**

The City will develop a program to inspect stormwater structures, such as catch basins, trash racks, pipes, box culverts and concrete and outfalls. The program will likely be incorporated into existing inspection programs.

Year 1      Year 2      Year 3      Year 4      Year 5

## 6. Pollution Prevention/Good Housekeeping

### **Actions Completed During Permit Year 1**

No Work Required Permit Year 1	<u>Responsible Party</u> City Of Lewiston Maine
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Although no work was required to be completed for this BMP during Permit Year 1, the City of Lewiston does have existing inspection and maintenance systems in place. These existing programs are discussed as follows:

Catch Basin Cleaning: As discussed in BMP 6-1, the City has an existing catch basin cleaning program that will be re-evaluated as part of this Stormwater Management Plan during Permit Year 2.

Maintenance schedule for major structures: Stormwater structures at Jepson Brook and Hart Brook are inspected and maintained on a regular basis. Condition of the structures is noted and any simple repairs or maintenance is completed at the time of inspection. Moderate and major repairs are reported back to the office and are completed when time and funding allows.

The City of Lewiston completes inspections of outfalls during brush cutting activities each spring and fall. Repairs and maintenance items are reported back to the office and are typically completed relatively quickly (within a week or two). These repairs are summarized in monthly reports either as outstanding items to be completed or as completed items.

During Permit Year 2, these programs will be reviewed in more detail to ensure inspections of stormwater structures are completed in accordance with the General Permit Requirements

### **Actions Completed During Permit Year 2**

Permit Year 2 Activity	<u>Responsible Party</u> Department of Public Works
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The Catchbasin Cleaning prioritization (BMP 6-1) and the Watershed Prioritization (BMP 3-2) were completed in Permit Year 2 and provide the basis for developing a maintenance schedule for the storm drain system structures. Because additional work is necessary to revise the catchbasin cleaning prioritization, this BMP will be further evaluated in Permit Year 3. In the interim, the City will continue conducting maintenance as described for Permit Year 1.

#### BMP Name

#### **BMP#6-7 Employee Education Program**

*The City currently provides training for employees. This program includes topics relevant to stormwater quality, such as looking for illicit connections, hazardous material handling and storage, equipment maintenance and repair, etc., for public works employees. Materials developed within the City and materials from the State are used during training. Occasionally outside groups will come in to do the training, such as MEDOT or MTA. The City should look for opportunities to collaborate with neighboring communities, such as Auburn or Sabattus, to reduce training costs. In addition, the City employee newsletter will be used to further educate public employees about stormwater issues.*

Year 1

Year 2

Year 3

Year 4

Year 5

## 6. Pollution Prevention/Good Housekeeping

### ***Actions Completed During Permit Year 1***

Permit Year 1 Activity Responsible Party  
Department of Public Works

The City of Lewiston hired the same consultant employed by the City of Auburn and Town of Sabattus to train employees about stormwater issues. The training program will be developed in Permit Year 2, and the training will occur in Permit Year 3.

Additional training that occurred during Permit Year 1 is documented in the Employee Training portion of the Asist Database.

### ***Actions Completed During Permit Year 2***

Permit Year 2 Activity Responsible Party  
Department of Public Works

The City of Lewiston contributed \$1,500 towards development of a manual titled, "Guidelines and Standard Operating Procedures for Stormwater Phase II Communities". The manual is a joint effort between the Portland-area Interlocal Stormwater Working group and six other municipalities (Lewiston, Auburn, Berwick, South Berwick, Eliot, and Kittery). The manual contains basic information on the IDDE and Pollution Prevention/Good Housekeeping minimum control measures for municipalities. The manual provides the basis for training in IDDE and Pollution Prevention/Good Housekeeping. The project began in October 2004. The manual is expected to be finalized in Permit Year 3 and the associated training sessions will be offered in Permit Year 3. The City of Lewiston also assisted by reviewing draft copies of the manual.

In addition, the City trained 43 employees on April 12 and 39 employees on April 13, 2005 in hazard communications and personal protective equipment use. This training reinforces good housekeeping practices for public works crews and parks and recreation personnel.

David Hediger and Eric Cousens attended the February 3, 2005 MDEP training on Sedimentation/Erosion control for Contractor Certification.

## 6. Pollution Prevention/Good Housekeeping

### BMP Name

#### **BMP#6-8 Hazardous Material Storage and Disposal Program**

*Lewiston recently completed a hazardous material audit and spill control plan. All hazardous material is clearly labeled, and stored in a fenced off area away from high-traffic paths. The amount of hazardous material stored is minimized. In addition, the City collects used waste oil from the public and contracts with an outside company (Clean Harbors) to dispose of municipally generated and public drop-off oil. This BMP will be to verify the plan is posted and waste oil management program remains in place.*

Year 1

Year 2

Year 3

Year 4

Year 5

#### ***Actions Completed During Permit Year 1***

Review of BMP recommendations

#### Responsible Party

Department of Public Services

The Department of Public Services reviewed the audits and recommended BMPs to ensure proper implementation. The following is a summary of the activities that were recommended and have been completed:

Vehicles and equipment are now stored on paved areas

Floor drains in the Public Works buildings that previously drained to the storm drain system were closed

A Spent Fluorescent Lamp storage and lead-acid battery storage area has been created.

#### ***Actions Completed During Permit Years 2-5***

Permit Year 2 Activity

#### Responsible Party

Department of Public Works

No work was required to be completed for this BMP for Permit Years 2 through 5.