

## ***Part II. Self-Assessment***

The City of Attleboro has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provision:

Part II.F

BMP 2-2 ("Stencil catch basins with "don't dump" message.") was not met; this BMP will be completed as an ongoing project within the City.

## ***Part III. Summary of Minimum Control Measures***

### **1. Public Education and Outreach**

| <b>BMP ID #</b> | <b>BMP Description</b>                                                | <b>Responsible Dept./Person Name</b> | <b>Measurable Goal(s)</b>                                                                                                                                      | <b>Progress on Goal(s) – Permit Year 14</b><br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                           | <b>Continuing Activities</b>                                                                                                                                                                                                                        |
|-----------------|-----------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-1             | Article/brochure about stormwater mailed to residents and businesses. | Environmental Planner                | An article/brochure made available at City Hall and the public library and distributed to all residents and businesses during Permit Year 2 and Permit Year 4. | 16,000 stormwater education brochures specific to the City of Attleboro were printed and purchased. Brochures were distributed to the public at City Hall and other appropriate municipal buildings.<br><br>Several hundred brochures were mailed out by the Conservation Commission during permit Year 10 as part of an education program throughout the City. | The brochures will continued to be mailed out and used for educational purposes as part of the Conservation Commission duties and will be available at City Hall and throughout municipal buildings, libraries and schools for public distribution. |

| BMP ID # | BMP Description                                                             | Responsible Dept./Person Name                                          | Measurable Goal(s)                                                                                                           | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                            | Continuing Activities                                                                                                                                                                                                            |
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| 1-2      | Update City website to include information on stormwater management issues. | Environmental Planner / Conservation Commission                        | City website updated to include information on stormwater management issues.                                                 | The City of Attleboro website (www.cityofattleboro.us) has been updated to include information and education materials relating to stormwater and non point source pollution. The web site includes the City's Stormwater Management Plan (SWMP), Annual Reports, educational brochures and graphics, and a link to the Ten Mile River Watershed Stormwater Education Project website which was funded by a §604b grant from DEP. The site was revised and updated during Permit Year 11. | The stormwater and non point source pollution page of the City website will be maintained and updated with appropriate information by the Conservation Agent and the MIS Department.                                             |
| 1-3      | Assist with cleanup days for rivers and waterbodies within City limits.     | Environmental Planner / Health Department / Department of Public Works | City may provide assistance to private organizations in the form of labor and disposal equipment but not formal sponsorship. | A planned clean-up day will be performed on May 20, 2017 along the Ten Mile River walkway. Last year Approximately 65 volunteers performed clean up of the Riverfront Area as well as the banks and Ten Mile River and Bungay River. The Health Department donated trash bags and gloves for the event and the DPW will remove all trash that was collected the following week.                                                                                                           | The City will continue to promote annual river clean-up days.                                                                                                                                                                    |
| 1-4      | Stormwater education program for school children.                           | Environmental Planner / Conservation Commission                        | A presentation and/or classroom and field time given to City middle and/or high school(s).                                   | The Conservation Commission and Environmental Planner, in partnership with the Massachusetts Audubon Society, implemented a Junior Conservation Commissioners program within Attleboro Middle Schools in 2016/2017 to educate children about wetlands protection and stormwater management.                                                                                                                                                                                               | The Environmental Planner and the Conservation Commission will continue to look to expand the educational opportunities throughout the local public school system and will participate in future earth day and eco day's events. |

| <b>BMP ID #</b> | <b>BMP Description</b>                                                             | <b>Responsible Dept./Person Name</b>               | <b>Measurable Goal(s)</b>                                                           | <b>Progress on Goal(s) – Permit Year 14</b><br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                               | <b>Continuing Activities</b>                                                                                                 |
|-----------------|------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1-5             | Present stormwater management issues to organizations in the City.                 | Environmental Planner                              | A presentation given to at least one group annually.                                | In 2016, the Environmental Planner and the City Planner spoke at the Attleboro Land Trust Inc. annual meeting and discussed stormwater management and its effects on wildlife.                                                                                                                                                                                                                      | Presentations will continue to be given to private and public groups.                                                        |
| 1-6             | Educate dog owners about picking up dog waste.                                     | Environmental Planner / City Clerk                 | A pet waste fact sheet mailed to all dog owners in annual dog registration mailing. | The notice was mailed this year in the annual dog registration. The notice is available at the City Clerk's office for dissemination.                                                                                                                                                                                                                                                               | The City Clerk will continue to mail the notice each year in the annual dog registration mailing.                            |
| 1-7             | Install and maintain stormwater and pet waste clean-up signs at schools and parks. | Park & Forestry Department / Recreation Department | The number of signs installed, number of signs inspected.                           | Pet waste cleanup signs have been installed at all City recreation facilities where pets are allowed, and at all City parks. In addition, these facilities provide trash receptacles for proper disposal.                                                                                                                                                                                           | Pet waste cleanup signs will be maintained and added as needed throughout the City.                                          |
| 1-8             | Staff a table with information about stormwater at Earth Day event each year.      | Health Department / Environmental Planner          | A table staffed each year. The number of brochures handed out.                      | Stormwater education brochures and a portable stormwater informational display kiosk specific to the City of Attleboro have been designed to educate the public on stormwater related issues. The City of Attleboro held an Earth Day event on April 22, 2017. During this educational event the City sold rain barrels, compost bins, hosted a shredding event and exchanged mercury thermometers. | Identify Earth Day events in the future and staff tables at the events utilizing the kiosk and materials that are available. |

| <b>BMP ID #</b> | <b>BMP Description</b>                                                                    | <b>Responsible Dept./Person Name</b>                                 | <b>Measurable Goal(s)</b>                                                                                             | <b>Progress on Goal(s) – Permit Year 14</b><br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                          | <b>Continuing Activities</b>                                                                                                              |
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| 1-9             | Expand information that is disseminated to include stormwater-related topics.             | Health Department / Environmental Planner                            | A table staffed each year. The number of brochures handed out.                                                        | The Health Department staffed a table at the City's annual Expo for the Senses and provided information on recycling and stormwater.                                                                                                                                           | The City will continue to staff appropriate events with information.                                                                      |
| 1-10            | Annual update of the Stormwater Management Plan at a televised Municipal Council meeting. | Environmental Planner / Department of Public Works                   | Annual update of SWMP at a televised Municipal Council meeting.                                                       | An annual update of the SWMP permit was given to the Municipal Council and was broadcast on public access television. The NPDES process was discussed during the annual CIP presentation to the Municipal Council. The Council was provided copies of the NPDES annual report. | An update of SWMP activities including copies of this annual report will be submitted to the Municipal Council each year.                 |
| 1-11            | Appear on local access television talk show to discuss stormwater management issues.      | Planning Department / Health Department / Department of Public Works | Periodic discussion of the importance of stormwater management presented to local access television.                  | The Environmental Planner appeared on Cable Access once during Year 14. This appearance included discussion of invasive species control, wetland protection, and river clean-up. The Health Department advertised the trash/recycling information on local cable.              | The Environmental Planner continues to work with AACS (Cable Access) to appear on cable programming to discuss stormwater related issues. |
| 1-12            | Post information on stormwater management issues on local access television.              | Environmental Planner                                                | Stormwater information posted and updated on local access cable television channel during periods of non-programming. | Several items were posted on the AACS (Cable Access) "Community Bulletin Board" channel. These items include the importance of invasive species control and advertisement for the Ten Mile River Clean-Up days.                                                                | The Environmental Planner will work with staff from the local access television channel to broadcast bulletin board information.          |

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| 1-13            | Post signs and develop and distribute brochures on Wall Street Highway Yard Stormwater Improvements project. | Department of Public Works / Environmental Planner | Post signs and distribute information describing the project and its benefits on water quality after completion of construction. | The project entailed a comprehensive stormwater management upgrade for the City's DPW Wall Street Highway Yard. The project was funded in part by a grant from DEP's Section 319 Non-point Source Pollution Competitive Grant Program. The City closed out the project through the EPA in June 2008.                                                                                                                                                                                                                                                                                   | The project is closed and no further activities are anticipated in relation to this project.                                                                                                                        |
| 1-14            | Distribute and display stormwater education materials within public buildings.                               | Environmental Planner                              | The number of days display is available. The number of brochures distributed.                                                    | Stormwater education brochures and a portable informational display kiosk specific to the City of Attleboro and the Ten Mile River Watershed have been designed in conjunction with the Ten Mile River Watershed Stormwater Education Project funded by a §604b grant from DEP. In addition, general stormwater outreach materials including brochures and posters from EPA have been distributed. The stormwater brochures are made available to construction contractors and the public at the following City offices: Planning Department, Building Inspection Department, and DPW. | The City will continue to ensure that watershed-specific stormwater education materials including the display kiosk are displayed regularly at City Hall, the Attleboro Public Library, and other public buildings. |

## 2. Public Involvement and Participation

| BMP ID # | BMP Description                                                             | Responsible Dept./Person Name                                    | Measurable Goal(s)                             | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                      | Continuing Activities                                                                                                                                                                            |
|----------|-----------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-1      | Comply with state public notification guidelines at MGL Ch. 39 Section 23B. | Department of Public Works / Environmental Planner / Health Dept | Public notices posted in designated locations. | Public notices are posted in compliance with MGL Ch. 39 Section 23B requirements.                                                   | The City will continue to post proper public notices.                                                                                                                                            |
| 2-2      | Stencil catch basins with "don't dump" message.                             | Department of Public Works                                       | The number of catch basins stenciled.          | Stencils with wording: "Dump No Waste Drains to River" and "Dump No Waste Drains to Ten Mile River" have been ordered and received. | The DPW has begun costing and budgeting for the installation of metal drain markers throughout the City. It is endeavored that we will implement a sample project by the end of the fiscal year. |

### 3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description                               | Responsible Dept./Person Name                      | Measurable Goal(s)                                            | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Continuing Activities                                                                                                                                                                 |
|----------|-----------------------------------------------|----------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-1      | Conduct dry weather outfall screening.        | Department of Public Works                         | The percent of outfalls screened.                             | The City has mapped its stormwater collection system (see BMP 3-2 & 3-3) including all of its known outfalls. A total of 549 outfalls have been identified and mapped using a geographic information system (GIS). City staff, along with an engineering consultant, have attempted to field locate each outfall and screen each for dry weather flow. A total of 405 outfalls have been screened in the field. The locations (including x, and y coordinates) of each outfall have been inputted into the GIS (see also BMP 3-2 & 3-3) along with a photograph, and field notes relating to dry weather flow. | The City departments will continue to the best of their ability to monitor outfalls throughout the City and notify the Environmental Planner of any suspicious flows within the City. |
| 3-2      | Map stormwater outfalls and receiving waters. | Environmental Planner / Department of Public Works | Map of all known outfalls and their receiving waters created. | The City has mapped its stormwater collection system (see BMP 3-1 & 3-3) including all of its known outfalls and their receiving waters. A total of 549 outfalls have been identified and mapped. The stormwater collection system has been included as a separate layer in the City's GIS system (see BMP 3-3). The locations of outfalls have been field-verified and located using either GPS technology or traditional surveying techniques. This information has been inputted into the GIS system.                                                                                                       | The City will continue to update the GIS system as needed.                                                                                                                            |

| BMP ID # | BMP Description                                                              | Responsible Dept./Person Name                      | Measurable Goal(s)                               | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Continuing Activities                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 3-3      | Map the stormwater collection system in a GIS.                               | Environmental Planner / Department of Public Works | Create map of stormwater system.                 | The City has mapped its stormwater collection system (see also BMP 3-1 & 3-2) including all of its known catch basins, pipelines, manholes, and outfalls. The stormwater collection system has been included as a separate layer in the City's GIS system. DPW maintains records of all drainage system repairs, upgrades, and expansions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | The stormwater collection system layer of the GIS system has been revised to include field-verified locations, descriptions and screening data for each identified outfall (see BMP 3-1 & 3-2). The GIS drainage layer will continue to be revised and updated as existing structures are repaired or modified, and as additional drainage components (e.g. new developments or new structures added to existing systems) are constructed. |
| 3-4      | Develop and implement plan to identify and remove non-stormwater discharges. | Environmental Planner / Department of Public Works | Number of illicit connections found and removed. | The City has attempted to field locate all outfalls and screen each for dry weather flow. A total of 405 outfalls were screened in the field. Conditions at each outfall were noted and a photograph was taken of each. This information has been included in the stormwater layer of the City's GIS system. A total of six (6) outfalls with dry weather flow and/or obvious signs of contaminants were noted and were evaluated further for evidence of illicit connections. This further evaluation did not identify any evidence of illicit connections to these outfalls and the source of flows in each was determined and found to be innocuous or an isolated event. As the source of dry weather flow to each outfall was identified and determined to be from a source other than illicit connections, no TV inspections were necessary. | The City will continue to evaluate dry weather flows and inspect drainage components for illicit connections as necessary. A database will be developed to track inspections and observations of dry weather flows. Those outfalls with dry weather flows suspected of contamination will be investigated.                                                                                                                                 |

| BMP ID # | BMP Description                                                                                                                                                                                                                                                              | Responsible Dept./Person Name                                         | Measurable Goal(s)                                              | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                       | Continuing Activities                                                                                                                        |
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| 3-5      | Develop ordinance that prohibits non-stormwater connections to the municipal separate storm sewer system (MS4), gives the City authority to access buildings to search for illicit connections, and allows the City to require redirection of any illicit connections found. | City Solicitor / Planning Department / Department of Public Works     | A draft ordinance developed and presented to Municipal Council. | The City of Attleboro adopted a Stormwater Management Ordinance on April 15, 2008 that prohibits non-stormwater connections to the municipal separate storm sewer system (MS4), gives the City authority to access buildings to search for illicit connections, and allows the City to require redirection of any illicit connections found. The Conservation Commission and the Planning Board adopted a new set of stormwater management regulations in June 2008. | The Conservation Commission and the Planning Board will continue to administer the City of Attleboro's Stormwater Ordinance and Regulations. |
| 3-6      | Continue inspection of new construction for correct connection.                                                                                                                                                                                                              | Department of Public Works / Water Department / Wastewater Department | New construction inspected.                                     | The Water Department and Wastewater Department each inspect every permitted connection for new construction to ensure that water and sanitary sewer lines are correctly tied to municipal service lines. The DPW and Conservation Commission each inspect new stormwater management systems to ensure that they are constructed in accordance with approved plans.                                                                                                   | This inspection program will continue to ensure that new construction is done properly.                                                      |

#### 4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description                                                                                                                     | Responsible Dept./Person Name                                     | Measurable Goal(s)                                                              | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                | Continuing Activities                                                                                                                        |
|----------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 4-1      | Construction site erosion and sedimentation control ordinance for construction sites greater than 1 acre in area.                   | City Solicitor / Planning Department / Department of Public Works | A draft ordinance developed and presented to Municipal Council.                 | The City of Attleboro adopted a Stormwater Management Ordinance on April 15, 2008 requiring an erosion and sediment control plan and stormwater management plan for all projects subject to the Stormwater Ordinance. The Conservation Commission and the Planning Board adopted a new set of stormwater management regulations in June 2008. | The Conservation Commission and the Planning Board will continue to administer the City of Attleboro's Stormwater Ordinance and Regulations. |
| 4-2      | Require construction site operator to submit monthly erosion and sediment control inspection reports for sites greater than 1 acre. | Department of Public Works                                        | Inspection reports submitted to the City.                                       | The City of Attleboro adopted a Stormwater Management Ordinance on April 15, 2008 requiring an erosion and sediment control plan and stormwater management plan for all projects subject to the Stormwater Ordinance. The Conservation Commission and the Planning Board adopted a new set of stormwater management regulations in June 2008. | The Conservation Commission and the Planning Board will continue to administer the City of Attleboro's Stormwater Ordinance and Regulations. |
| 4-3      | Review site plans for stormwater impacts.                                                                                           | Planning Board / Conservation Commission / Staff                  | The number of site plans reviewed for erosion and sediment control.             | The Planning Board and the Conservation Commission review all proposed development plans to ensure compliance with local and state stormwater regulations including proper erosion and sediment controls.                                                                                                                                     | Municipal boards will continue to review all proposed development plans.                                                                     |
| 4-4      | Consider public input.                                                                                                              | Environmental Planner / Planning Board                            | Public review and public hearings held; signs posted at each construction site. | Developments are regulated by the Planning Board, Conservation Commission, and Zoning Board of Appeals and are reviewed at public hearings in which public comments are accepted.                                                                                                                                                             | Municipal boards will continue to review all proposed development plans.                                                                     |

## 5. Post-Construction Stormwater Management in New Development and Redevelopment

| BMP ID # | BMP Description                                                                                                                                 | Responsible Dept./Person Name                                     | Measurable Goal(s)                                              | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                        | Continuing Activities                                                                                                 |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 5-1      | Develop ordinance to apply Standards 2, 3, 4, 7, and 9 of the Massachusetts Stormwater Policy to the entire City. Present to Municipal Council. | City Solicitor / Planning Department / Department of Public Works | A draft ordinance developed and presented to Municipal Council. | The City of Attleboro adopted a Stormwater Management Ordinance on April 15, 2008 requiring an erosion and sediment control plan, waste management plan, and stormwater management plan for all projects subject to the Stormwater Ordinance. The Conservation Commission and the Planning Board adopted a new set of stormwater management regulations in June 2008. | The Conservation Commission will continue to administer the City of Attleboro's Stormwater Ordinance and Regulations. |
| 5-2      | Specify a stormwater BMP manual to be used for consistent design and performance standards.                                                     | Environmental Planner                                             | BMP manual selected.                                            | The City of Attleboro adopted a Stormwater Management Ordinance on April 15, 2008 requiring an erosion and sediment control plan, waste management plan, and stormwater management plan for all projects subject to the Stormwater Ordinance. The Conservation Commission and the Planning Board adopted a new set of stormwater management regulations in June 2008. | The Conservation Commission will continue to administer the City of Attleboro's Stormwater Ordinance and Regulations. |
| 5-3      | Ensure long-term maintenance of structural BMPs.                                                                                                | City Solicitor / Planning Department                              | A draft ordinance developed and presented to Municipal Council. | The City of Attleboro adopted a Stormwater Management Ordinance on April 15, 2008 requiring an erosion and sediment control plan, waste management plan, and stormwater management plan for all projects subject to the Stormwater Ordinance. The Conservation Commission and the Planning Board adopted a new set of stormwater management regulations in June 2008. | The Conservation Commission will continue to administer the City of Attleboro's Stormwater Ordinance and Regulations. |

## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID # | BMP Description                           | Responsible Dept./Person Name                      | Measurable Goal(s)                                                        | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                  | Continuing Activities                                                                                                                                                                                                                                                                                                                                                                                 |
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| 6-1      | Employee training program.                | Department of Public Works / Environmental Planner | The number of DPW employees who receive stormwater training each year.    | Horsley Witten Group performed a two-day training session with municipal department staff. The training concentrated on LID development and maintenance of LID systems as well as general stormwater system maintenance. In addition, staff from the DPW, Parks and Forestry, Recreation, and Health departments received brochures and educational information relating to stormwater pollution from Horsley Witten Group.                                     | Appropriate staff will continue to receive training and educational information pertaining to stormwater pollution throughout the permit term as needed. Information will be specific to activities routinely undertaken by City employees in the performance of their regular duties. Training may coincide with spill prevention and response training provided by Health Department (see BMP 6-7). |
| 6-2      | Continue street and parking lot sweeping. | Department of Public Works                         | Yards of material removed from roadways and public parking lots annually. | The Department of Public Works swept public streets and parking lots during the spring using both City-owned and contracted sweepers. In addition, downtown streets are swept twice weekly throughout warm weather months and others may be swept during the year on an as-needed basis. Material is properly disposed of in a permitted landfill. The City removed an estimated 1,369 cubic yards of sand and debris from City roadways during Permit Year 14. | The City will continue to sweep all public streets and parking lots.                                                                                                                                                                                                                                                                                                                                  |

| BMP ID # | BMP Description                                             | Responsible Dept./Person Name | Measurable Goal(s)                        | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Continuing Activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| 6-3      | Storm drain maintenance                                     | Department of Public Works    | Percent of catch basins cleaned annually. | The Department of Public Works maintains an estimated 3,730 stormwater catchbasins. It cleans catch basins regularly throughout the year using a truck mounted “clam shell” device. In addition, a contracted “vactor” truck is hired as needed to remove accumulated sediments from drainage structures when it is determined that City-owned equipment would be inadequate to remove the material. Residuals are properly disposed of as cover in a permitted City-owned landfill. An estimated 508 catch basins were cleaned – with an estimated 687 cubic yards of sand and debris removed – during Permit Year 14. DPW staff evaluates maintenance needs including equipment and record keeping in an effort to prioritize work and improve efficiency. | The City will continue to maintain drainage structures and remove accumulated sediments from catch basins and pipelines as needed. DPW staff will utilize the GIS system to better track catch basin and drainage line cleanings and prioritize work.                                                                                                                                                                                                                                       |
| 6-4      | Evaluate street sweeping and catch basin cleaning equipment | Department of Public Works    | Evaluation of existing equipment.         | The DPW currently operates one truck mounted “clam shell” device for cleaning catch basins. In addition, the DPW also operates two street sweeping vehicles and several smaller motorized sweepers for cleaning small parking lots and sidewalks. Each spring, the DPW contracts with a private vendor for additional street sweeping services. The City purchased one new street sweeping vehicle during Permit Year 2 as well as a clam shell in permit year 11 and permit year 12.                                                                                                                                                                                                                                                                        | In the City’s FY 2016-2020 Capital Improvements Plan, the DPW-HD requests that the City purchase a Vactor Truck in order to clean catch basins and storm drains (see BMP 6-3) more thoroughly and efficiently. The DPW-HD asks that the Vactor Truck be purchased in FY 2018 in the capital budget and has categorized the purchase as an “urgent” priority. Moreover, DPW-HD also requests that the City purchase one (1) additional street sweepers-one in FY 2018 in the capital budget. |

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| 6-5      | Roadway deicing.      | Department of Public Works    | Reduction in the amount of deicers used (compared to past years with similar snowfall and demand) and environmental impacts. | The DPW along with private contractors working under DPW direction implement the City's winter roadway deicing program. Roadways are treated with a mixture of sand and salt as conditions warrant. Downtown streets are treated with salt only. During winter 2016, the City applied an estimated 2,100 tons of sand, 3,429 tons of salt to City roadways and 7.3 tons of ice melt on sidewalks. The sand / salt mixture is stockpiled under separate cover. DPW staff evaluated the deicing program to improve efficiency and effectiveness and to limit the amount of deicing materials placed on roadways while maintaining public safety. | DPW staff will continue to monitor industry standards and utilize methods of roadway deicing that are efficient and effective. |
| 6-6      | Proper snow disposal. | Department of Public Works    | Designated snow disposal areas identified.                                                                                   | DPW staff has reviewed DEP's snow disposal guidelines and have sought to identify appropriate snow disposal locations within close proximity to downtown. Only snow removed from roadways and sidewalks within the downtown business district are transported for disposal. Several public and private parcels that meet DEP disposal guidelines were identified and utilized during the winter 2007-2008.                                                                                                                                                                                                                                     | DPW staff will dispose of snow removed from roadways and sidewalks in accordance with DEP disposal guidelines.                 |

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| 6-7      | Continue spill prevention and response training at DPW facility.     | Department of Public Works / Health Department | The periodic training of employees                            | The Health Department retains the services of an outside waste management consultant to provide periodic spill prevention and response training to DPW employees working at the Recycle Centers. Participants are provided with handouts including a training manual for spill response a copy of the <i>Emergency Response Guidebook</i> . The City has also purchased two self-contained portable spill response kits, which are maintained at the Recycle Center. Personnel are trained in the appropriate use of these materials as first responders to a spill of oil or hazardous materials. | Training sessions will be held periodically as needed according to employee turnover.                                                              |
| 6-8      | Develop written spill prevention and response plan for DPW facility. | Department of Public Works / Health Department | A written spill response plan developed and updated annually. | The Health Department has constructed a new hazardous waste storage building to temporary store wastes collected from the public (see BMPs 6-15 & 6-16) and from municipal operations. This new hazardous waste storage building is located at 29 North Pond Street.                                                                                                                                                                                                                                                                                                                               | The Health Department will continue to utilize the new building for its hazardous waste storage and will develop a SPRP plan for the new facility. |
| 6-9      | Continue to maintain hazardous materials inventory.                  | Fire Department / Health Department            | Maintenance of hazardous materials inventory system.          | The Health Department and Fire Department maintains an inventory of hazardous materials used by City departments as well as documentation of hazardous waste generated and disposed of by the City.                                                                                                                                                                                                                                                                                                                                                                                                | The Health Department and Fire Department will continue to document hazardous materials and waste used and generated by City departments.          |

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| 6-10            | Minimize impacts from vehicle maintenance.      | Department of Public Works                                                           | The reduction in amount of hazardous materials used.                                                                            | The DPW minimizes the use of hazardous materials at their Lamb Street Highway Yard to the extent practicable.                                                                                                                                                                                                                                                                                                                                                                                    | The DPW will continue to explore ways to minimize the use of hazardous materials at their Lamb Street Highway Yard.                                                                                 |
| 6-11            | Minimize impacts from vehicle washing.          | Health Department / Department of Public Works / Fire Department / Police Department | Investigate current vehicle washing practices and recommend improvements. Decline in use of soap. Switch to biodegradable soap. | The Health Department has reviewed vehicle-washing practices by the DPW, Fire, and Police departments and has identified an appropriate biodegradable, phosphorus-free detergent alternative.                                                                                                                                                                                                                                                                                                    | A biodegradable, phosphorus-free detergent has been identified and purchased for the DPW, Fire, and Police departments to use when washing vehicles.                                                |
| 6-12            | Park and landscape maintenance.                 | Parks & Forestry Department / Recreation Department                                  | A reduction in the amount of herbicides & fertilizers used.                                                                     | Parks and Forestry Department field personnel are trained in the proper application of fertilizers, herbicides, and pesticides at all City parks. In addition, the Recreation Department and the Parks and Forestry Department are staffed by a licensed pesticide applicator who is responsible to apply all fertilizers, herbicides, and pesticides at City open space and recreational facilities. These departments keep records of the amounts of these materials used throughout the year. | The Parks and Forestry Department and Recreation Department will continue to staff trained personnel. These departments will also maintain records of fertilizers, herbicides, and pesticides used. |
| 6-13            | Continue tree planting and maintenance program. | Parks & Forestry Department / Recreation Department                                  | The number of trees planted.                                                                                                    | The Parks and Forestry Department planted a number of trees on public roadways and properties during Permit Year 14. The City has also continued development of the tree farm for use for City projects and currently has over 50 trees in the tree farm.                                                                                                                                                                                                                                        | The tree-planting program will continue and the City tree farm will be maintained.                                                                                                                  |

| BMP ID # | BMP Description                                                   | Responsible Dept./Person Name                  | Measurable Goal(s)                                          | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                         | Continuing Activities                                                                                                                                                                                                    |
|----------|-------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6-14     | Illegal dumping control.                                          | Department of Public Works / Health Department | The number of signs posted. The number of sites cleaned up. | The Health Department routinely investigates reports of illegal dumping of waste throughout the city. The Health Department attempts to identify the responsible party and order cleanup. When necessary, the Health Department will remove waste material for proper disposal. Signs are posted warning of violations for illegal dumping. The Health Department and/or DPW posted signs and removed waste from dumping areas.                                                                        | The Health Department will maintain records of all identified illegal dumping areas and cleanup/enforcement actions.                                                                                                     |
| 6-15     | Continue to hold Annual Household Hazardous Waste Collection Day. | Health Department                              | Household hazardous waste collection once annually.         | The Health Department conducted a Household Hazardous Waste Day for residents on June 11, 2016, 180 residents participated in the event. Collected were 3 containers of Waste Pesticides Liquid Toxic, 2 containers of Waste Corrosive Liquid Acidic, 3 containers of Waste Corrosive Liquid Basic, 4 Waste Flammable Liquids, 1 Waste Flammable Liquids, 2 Waste Oxidizing Liquid. All waste material collected was received by a licensed waste disposal contractor and removed for proper disposal. | The Health Department has scheduled paint product and automotive waste collection days for the first Saturday of the month from April through June and from August through November. These events will be held annually. |

| BMP ID # | BMP Description                                                                                                            | Responsible Dept./Person Name                                                                                                 | Measurable Goal(s)                                                                                                 | Progress on Goal(s) – Permit Year 14<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Continuing Activities                                                                                                                                                                                               |
|----------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6-16     | Continue to provide monthly waste drop off days.                                                                           | Health Department                                                                                                             | Paint products and automotive wastes collected from residents in April, May, June, August, September, and October. | The Health Department conducted collections for paint products, automotive wastes, batteries, and fluorescents for city residents on the first Saturday during the following months: April, May, June, August, September, and October. This program was used by an average of 277 residents per event and collected approximately 3,368 LMP Fluorescent Lamps, 1,500 LMP Compact Fluorescent Lamps, one 55 gallon drum of Ballast, 2,428 Tires, 4,700 gallons of Waste Oil, 1,760 gallons of Oil Paint, 1,045 gallons of Aerosol cans, 3,245 gallons of Latex Paint, 250 gallons of Antifreeze, 1292 Propane tanks, 132 Auto batteries, 1,228 lbs. of Miscellaneous Batteries, 30 Core Batteries, one 8 yard container of used Oil Filters, 76 Fire Extinguishers and 402 tons of CRT/Electronics. All waste material collected was received by a licensed waste disposal contractor and removed for proper disposal. | The Health Department has scheduled paint product and automotive waste collection days for the first Saturday of the month for April, May, June, August, September and October. These events will be held annually. |
| 6-17     | Continue enforcement of pet waste pick-up ordinance. Continue frequent trash barrel emptying to encourage proper disposal. | Health Department / Animal Control Officer / Department of Public Works / Parks & Forestry Department / Recreation Department | Reduction of complaints if any in public areas; frequency of trash barrel emptying.                                | The City's Animal Control Officer enforces the pet waste pick-up ordinance. In addition, the Parks and Forestry Department and the Recreation Department enforce the ordinance within City parks and recreational facilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | City staff will continue to enforce the pet waste pick-up ordinance and will disseminate information as deemed necessary.                                                                                           |

| <b>BMP ID #</b> | <b>BMP Description</b>                                                                                                                 | <b>Responsible Dept./Person Name</b>               | <b>Measurable Goal(s)</b>                                                                            | <b>Progress on Goal(s) – Permit Year 14</b><br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                       | <b>Continuing Activities</b>                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 6-18            | Implement stormwater improvements at Wall Street Highway Yard.                                                                         | Department of Public Works / Environmental Planner | Construction of stormwater improvements project.                                                     | This project entailed the implementation of a comprehensive stormwater management plan for the City's DPW Wall Street Highway Yard. The project was funded in part by a grant from DEP's Section 319 Non-point Source Pollution Competitive Grant Program. The City has completed the installation of all drainage inlets, treatment units, associated pipelines, and one bio-retention filter. Project has been completed. | Construction activities related to this project were completed during Permit Year 4.                                        |
| 6-19            | Enter into agreement with Historic Preservation Officer to mitigate potential negative stormwater impacts to Blackinton Houses & Park. | Environmental Planner / Department of Public Works | A written agreement with the Historic Preservation Officer (SHPO) obtained and appended to the SWMP. | The City has received correspondence from the SHPO stating that no agreement is needed to mitigate potential impacts as no work is currently proposed near the Blackinton Houses and Park.                                                                                                                                                                                                                                  | The City will contact the Historic Preservation Officer if any future work is proposed near the Blackinton Houses and Park. |

#### 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

Not Applicable. TMDLs have not been developed for any of the impaired water bodies in Attleboro.

## ***Part IV. Summary of Information Collected and Analyzed***

There is no information or data that was collected during Permit Year 14 that is not included elsewhere in this report.

## ***Part V. Program Outputs & Accomplishments***

### **Programmatic**

|                                                |       |                       |
|------------------------------------------------|-------|-----------------------|
| Stormwater management position created/staffed | (y/n) | <b>No</b>             |
| Annual program budget/expenditures             | (\$)  | <b>Not Determined</b> |

### **Education, Involvement, and Training**

|                                                                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Estimated number of residents reached by education program(s)           | (# or %)                     | <b>90%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Stormwater management committee established                             | (y/n)                        | <b>Yes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Stream teams established or supported                                   | (# or y/n)                   | <b>No</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (y/n or mi.)                 | <b>Yes, 4 Miles</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Household Hazardous Waste Collection Days                               |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ▪ days sponsored                                                        | (#)                          | <b>208 Days</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ▪ community participation                                               | (# of residents)             | <b>2,000 +/-</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ▪ material collected                                                    | (#, pounds, tons or gallons) | <b>2,428 tires</b><br><b>4,700 gallons of waste oil</b><br><b>5,005 gallons of latex/oil paint</b><br><b>250 gallons of antifreeze</b><br><b>1,292 propane tanks</b><br><b>3,368 linear feet of florescent lamps</b><br><b>132 auto batteries</b><br><b>402 tons of CRT/electronics</b><br><b>1 eight yard container of used oil filters</b><br><b>One 55-gallon pail of mercury containing devices (Ballast)</b><br><b>76 Fire extinguishers</b><br><b>109 incandescent/quartz/halogen bulbs</b><br><b>1,500 compact fluorescent lamps</b><br><b>1,045 gallons of aerosol cans</b> |
| School curricula implemented                                            | (y/n)                        | <b>Yes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Legal/Regulatory

|                                                    | In Place<br>Prior to<br>Phase II | Under<br>Review | Drafted | Adopted  |
|----------------------------------------------------|----------------------------------|-----------------|---------|----------|
| Regulatory Mechanism Status (indicate with "X")    |                                  |                 |         |          |
| ▪ Illicit Discharge Detection & Elimination        |                                  |                 |         | <b>X</b> |
| ▪ Erosion & Sediment Control                       |                                  |                 |         | <b>X</b> |
| ▪ Post-Development Stormwater Management           |                                  |                 |         | <b>X</b> |
| Accompanying Regulation Status (indicate with "X") |                                  |                 |         |          |
| ▪ Illicit Discharge Detection & Elimination        |                                  |                 |         | <b>X</b> |
| ▪ Erosion & Sediment Control                       |                                  |                 |         | <b>X</b> |
| ▪ Post-Development Stormwater Management           |                                  |                 |         | <b>X</b> |

## Mapping and Illicit Discharges

|                                        |                    |                   |
|----------------------------------------|--------------------|-------------------|
| Outfall mapping complete               | (%)                | <b>100%</b>       |
| Estimated or actual number of outfalls | (#)                | <b>549</b>        |
| System-Wide mapping complete           | (%)                | <b>100%</b>       |
| Mapping method(s)                      |                    |                   |
| ▪ Paper/Mylar                          | (%)                | <b>100%</b>       |
| ▪ CADD                                 | (%)                | <b>0%</b>         |
| ▪ GIS                                  | (%)                | <b>100%</b>       |
| Outfalls inspected/screened            | (# or %)           | <b>405 or 74%</b> |
| Illicit discharges identified          | (#)                | <b>0</b>          |
| Illicit connections removed            | (# )<br>(est. GPD) | <b>None</b>       |
| % of population on sewer               | (%)                | <b>65% +/-</b>    |
| % of population on septic systems      | (%)                | <b>35% +/-</b>    |

## Construction

|                                                                                                   |            |         |
|---------------------------------------------------------------------------------------------------|------------|---------|
| Number of construction starts (>1-acre)                                                           | (#)        | 15 +/-  |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control | (%)        | 100%    |
| Site inspections completed                                                                        | (# or %)   | 100%    |
| Tickets/Stop work orders issued                                                                   | (# or %)   | 0       |
| Fines collected                                                                                   | (# and \$) | \$ 0.00 |
| Complaints/concerns received from public                                                          | (#)        | 6 +/-   |

## Post-Development Stormwater Management

|                                                                                                                          |          |                |
|--------------------------------------------------------------------------------------------------------------------------|----------|----------------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%)      | 100%           |
| Site inspections completed                                                                                               | (# or %) | 100%           |
| Estimated volume of stormwater recharged                                                                                 | (GPY)    | Not Determined |

## Operations and Maintenance

|                                                                                                |               |                       |
|------------------------------------------------------------------------------------------------|---------------|-----------------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets)                | (times/yr)    | 1                     |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets)      | (times/yr)    | 1                     |
| Total number of structures cleaned                                                             | (#)           | 508                   |
| Storm drain cleaned                                                                            | (LF or mi.)   | Not Determined        |
| Quantity of screenings/debris removed from storm sewer infrastructure                          | (cubic yards) | 687 Yards             |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) |               | Private Contractor    |
| Cost of screenings disposal                                                                    | (\$)          | None                  |
| Average frequency of street sweeping (non-commercial/non-arterial streets)                     | (times/yr)    | 1 - every street      |
| Average frequency of street sweeping (commercial/arterial or other critical streets)           | (times/yr)    | 104 +/- 79 (Downtown) |
| Quantity of sand/debris collected by sweeping                                                  | (cubic yards) | 1,369 cubic yards     |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)                          | (location)    | Private Contractor    |
| Cost of sweepings disposal                                                                     | (\$)          | None                  |
| Vacuum street sweepers purchased/leased                                                        | (#)           | None                  |
| Vacuum street sweepers specified in contracts                                                  | (y/n)         | Yes                   |

|                                                                                        |                                                                                           |                                                                  |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Reduction in application on public land of: (“N/A” = never used; “100%” = elimination) |                                                                                           |                                                                  |
| ▪ Fertilizers                                                                          | (lbs. or %)                                                                               | <b>Not Determined</b>                                            |
| ▪ Herbicides                                                                           | (lbs. or %)                                                                               | <b>Not Determined</b>                                            |
| ▪ Pesticides                                                                           | (lbs. or %)                                                                               | <b>Not Determined</b>                                            |
| Anti-/De-Icing products and ratios                                                     | % NaCl<br>% CaCl <sub>2</sub><br>% MgCl <sub>2</sub><br>% CMA<br>% Kac<br>% KCl<br>% Sand | <b>38%</b><br><br><br><br><br><br><br><br><br><b>62%</b>         |
| Pre-wetting techniques utilized                                                        | (y/n)                                                                                     | <b>No</b>                                                        |
| Manual control spreaders used                                                          | (y/n)                                                                                     | <b>Yes</b>                                                       |
| Automatic or Zero-velocity spreaders used                                              | (y/n)                                                                                     | <b>No</b>                                                        |
| Estimated net reduction in typical year salt application                               | (lbs. or %)                                                                               | <b>Not Determined</b>                                            |
| Salt pile(s) covered in storage shed(s)                                                | (y/n)                                                                                     | <b>Yes</b>                                                       |
| Storage shed(s) in design or under construction                                        | (y/n)                                                                                     | <b>Two new salt storage sheds were constructed in year 2016.</b> |