

Municipality/Organization: City of Quincy

EPA NPDES Permit Number: MAR041081

MassDEP Transmittal Number: W-041020

Annual Report Number Year 9
& Reporting Period: April 1, 2011 – March 31, 2012

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2012)

Part I. General Information

Contact Person: Peter Hoyt Title: Superintendent of Water, Sewer and Drains

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: Thomas P. Koch

Title: Mayor

Date: 4/10/12

Part II. Self-Assessment

From April 1, 2011– March 31, 2012 the City of Quincy continued to make progress implementing BMPs and meeting the General Permit requirements. Stormwater management activities to date of note include:

- All ordinances required by EPA's 2003 MS4 General Permit are in place.
- The City has made substantial progress on developing a complete drainage system map. According to the GIS system, the City has 190 outfalls and approximately 90% of the drainage system is mapped. Map of the MS4 shows the locations of all outfalls, and catch basins, drainage manholes, ditch inlets, tide gates, and connectivity, where known. Updates are made based on recent drainage system cleaning and CCTV efforts.
- The City has proposed to enhance and re-align a portion of Town Brook within Quincy Center. An Environmental Notification Form was submitted in March 2011 to EOEEA, as required by MEPA. As part of this project, during the Town Brook culvert walkthrough conducted in July 2008, the City identified numerous structural issues, utility conflicts, and illicit sewer connections, as well as clogged and collapsed sewer outfalls. City evaluated nine project alternatives, and selected an alternative that includes riverfront area enhancements, open channel sections of the Brook, fish habitat enhancements, flood control, water quality improvements (rain gardens), and removal of illicit connections. The City expects the project to be completed in November 2012. The City completed an initial Phase of the work and is planning to complete a second.
- City is also considering flood mitigation measures in the Miller Street/Cross Street/Furnace Brook area.
- Additional drainage repair projects for North Quincy and for Furnace Brook are scheduled to follow up on previous inspections completed.
- City is going out to bid on drainage repairs in Broad Street area, which are expected to be completed later this year. This work includes replacing catch basins and manholes, and repairing defective pipes to address flooding. If any illicit connections are discovered, they will be repaired.
- The City began an aggressive drainage system cleaning and investigation program in the late summer of 2011 beginning in the North and West Quincy areas with infrastructure discharging to Sagamore Creek and Furnace Brook. These regions have been prone to flooding. In the Broad Street tributary area, 7,600 linear feet of pipe and 90 catch basins and manholes were cleaned and inspected. In North Quincy, three separate outfalls on Division Street, West Squantum Street and Newport Avenue were cleaned inspected, resulting in a total of 40,670 linear of pipe and 536 catch basins and manholes that were cleaned and inspected. In Furnace Brook area draining to Blacks Creek outfall, 20,300 linear feet and 155 catch basins and manholes were cleaned and inspected. This cleaning will prevent flooding in the future and reduce sediment from reaching the fresh water bodies where these systems discharge.
- The City also conducted drainage system inspections in the area discharging to Wollaston Beach in the North Quincy region of the City. These inspections were focused on identifying sources of bacteria, namely, illicit sanitary sewer connections. The drain pipe CCTV inspections identified 13 unconfirmed connections, but dye testing of nearby buildings did not confirm any as sanitary sewer connections.
- As part of the City's downtown redevelopment, the Town Brook portion that runs through a culvert in this region will be improved. These enhancements will promote smelt spawning areas and removed illicit sanitary sewer connections. See website <http://www.quincytine.com/plan/public-improvements/> for further information.
- The first phase of the City's on-going infiltration and inflow (I/I) removal project was completed in April of 2011 and focused on coastal areas of the City. A total of 85 manholes received a monolithic cement liner, 9 manholes were replaced entirely due to structural

degradation and leaks, and 16 manholes received some other form of rehabilitation. All work was completed to remove I/I from the sewer system resulting in extraneous flow.

- The City launched an aggressive CCTV investigation program in the summer of 2011 to identify additional I/I in the sewer system. These investigations concentrated in the Hough's Neck, Adam's Shore, and Squantum coastal regions of the City where considerable tidally influenced I/I occurs. Over 500,000 gpd of infiltration was identified in these pipes alone and some of these defects were rolled into the Phase IIA construction project discussed below. Repairs for these defects were identified and will be implemented in the next construction phase for removal as funding becomes available.
- Phase IIA of the City's on-going I/I removal project started in October 2011 and continued work in coastal areas of the City. The contractor has shut down temporarily for the winter, and as of the date of this report has completed 23 manhole replacements due to structural degradation and leaks, and the rehabilitation of 25 other manholes.
- Work under Phase IIA that is scheduled to take place once the contractor resumes work includes monolithic cement lining of 36 manholes and cured-place-pipe (CIPP) lining of approximately 2,300 linear feet of sewer pipe. Some of the CIPP Lining will take place in sewer segments where indirect flow from catch basins and the drainage system is contributing to sewerage flow. This CIPP lining will also remove the infiltration from the sewer and will prevent potential exfiltration of the sewer into the drain network during periods when the sewer is surcharged.
- City has included twelve (12) drainage-related projects on the Capital Improvements Plan that address immediate public health and safety needs. Many of these projects were identified on Woodard & Curran's April 2009 report summarizing an evaluation of sixteen areas within the City identified by the Department of Public Works (DPW) that have regular to periodic problems with drainage performance. Several of these projects address requirements of EPA's 2003 MS4 General Permit and include water quality improvements. City approved \$10 Million of drainage improvements projects throughout the City, to implement the Capital Improvement Plan.
- City undertook a flood mitigation project on Centre Street, which was completed late 2011. This project was included in the City's Capital Improvement Plan, and is a structural solution to change the water flowed in the drainage system.
- City is investigating flood mitigation measures along Furnace Brook.
- City is looking to replace pumps in the John and Division Streets pump stations.
- City with consultant assistance is looking to design and permit a new tide gate on Sagamore creek.
- City is assessing replacement of existing tide gates on Blacks Creek to improve operation and functionality, and replace the tide gate on the Broad Street outfall.
- City appropriated funding for US Army Corps of Engineers study of flood reduction for the Penns Hill area.
- Two household hazardous waste days are sponsored per year. In 2011, approximately 300 cars per event participated. Clean harbors report available at the City details material collected.

Planned activities for the next permit term have not been designated unless a BMP under this permit term was not fully completed or is an ongoing effort. Quincy's Stormwater Management Program will be re-assessed during development of the next NOI to more efficiently use the City's limited resources and staff time to leverage better stormwater management.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1-1 Revised	Classroom education on stormwater	Department of Public Works	Outreach to Ecology Clubs in Schools	The DPW makes conservation booklets and “Dwayne the Storm Drain” coloring books available at the DPW. The City also participates in Nation Public Works Week, where high school students were invited to shadow water, sewer, & drain department staff.	Measurable goals for 2003 General Permit have been met.
1-2 Revised	Flyer & Brochure distribution	Department of Public Works	Develop & distribute materials for public education	DPW continued to hand out “Water Wise Kids” water conservation flyers provided by the MWRA. In addition, the City distributes information about curbside waste and recycling, yard waste, household hazardous waste collection, and proper disposal of hazardous waste/mercury/needles to every resident.	Measurable goals for 2003 General Permit have been met. DPW plans to continue with this practice.

1-3 Revised	Using the Media and Internet	Department of Public Works	Issue One Local Cable Public Service Announcement (PSA)	The City continues to regularly play the series on local public access (QATV) titled "How Quincy Works", which shows how the City conducts water, sewer, and drainage-related work. The sewer segment explains that the sewer and stormwater systems are not connected, not to put pet waste in catch basins, and that the stormwater system drains to Quincy Harbor. QATV also regularly airs segments on beach closings, recycling programs, trash pickup schedules, and the City's bi-annual Household Hazardous Waste Day, when residents can drop off items such as auto fluids, pesticides, thinners, and other eligible items.	Measurable goals for 2003 General Permit have been met. As budget allows, the City plans to continue with this practice.
1-3 Revised	Using the Media and Internet	Department of Public Works	Annual article by Sewer/Water/Drain Superintendent	Due to limits on staff time and budgets, no annual article by the sewer/water/drain superintendent was issued. However, in prior years, articles about stormwater pollution and flooding have been released.	Measurable goals for permit have been met. Continue articles as budget and staff time allow.
1-3 Revised	Using the Media and Internet	Department of Public Works	Publish one storm water press release each year	The City uses public website to distribute "press releases" to educate the public about flooding and stormwater issues.	Continue to update City website as needed and as budget allows.
1-3 Revised	Using the Media and Internet	Department of Public Works	Expand City Website to include Storm Water Topics and links	Stormwater and water quality information is available on the Inspectional Division website.	Continue to expand city website to include additional information, as budget and staff time allows.
1-4 Revised	Public Safety Fair	All City Departments	Annual Public Safety Fair	Due to budget constraints, the Annual Public Safety Fair was not held in 2011. However, the City held National Public Works week in 2011 where information about Public Works was provided to attendees.	If the Public Safety Fair is held, distribute stormwater information.

1-5	Neighborhood Forums of Flooding	Department of Public Works	PY7 - Perform outreach to residents in response to recent flooding PY8 – Perform outreach in response to projects identified to alleviate flooding PY9 – No goals planned.	No measurable goals planned for Permit Year 9. To educate the public about the Capital Improvement Projects planned to address flooding the City help meetings on: • April 27, 2010 in West Quincy • Feb 7, 2011 & March 14, 2011 for City Council • March 2, 2011 in Ward 4; and • March 23 & March 31 in Ward 1 Presentations included material about stormwater and flooding issues, and projects planned to alleviate issues.	BMP complete. Measurable goals for the 2003 General Permit have been met.
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2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-1	Storm Water Committee	Department of Public Works (DPW)	Establish the Committee and meet quarterly.	There are several committees specific to receiving waters (e.g., Wollaston Beach Committee) or other environmental issues. As needed, the DPW participates in these groups to discuss the City's stormwater program.	Measurable goals for 2003 General Permit have been met. As needed, attend meetings to discuss progress and future goals for watersheds.

2-2	Storm Cleanup and Management	DPW	Track Clean-up activities per year. Track number of clean-up participants Track number of miles cleaned by volunteers	The 22nd annual <i>Cleaner, Greener Quincy</i> was held on Saturday May 7th in 2011. Residents, volunteers and all City departments cleaned the City's parks, beaches, schools, marshes, and open space areas. Numerous pond and beach cleanups were held in 2011, including: April 19 (Butler's Pond), May 7 (Cleaner Greener Quincy), September 25 (Coast Sweep), and November 6 (Sailor's Home Pond). The DPW performed tree pruning for some of these activities and regularly supports trash removal for the cleanup efforts. The DPW also regularly raked the beaches of debris, particularly during the <i>Cleaner, Greener Quincy</i> event.	Measurable goals for 2003 General Permit have been met. <i>Cleaner, Greener Quincy</i> has been held for over 22 years. The City plans to continue with this practice. The 23rd annual <i>Cleaner Greener Quincy</i> will take place on Saturday, May 5th from 9 a.m. to 12 noon at locations citywide. Post storm cleanup is a function of the DPW and Parks Departments.
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2-4	Pet Waste Collection	DPW	Track number of Dog Parks Track number of Signs Posted Track number of Educational Materials Distributed Track number of "Pooper -Scooper Stations"	The City currently does not have any dog parks and encourages owners to clean up after their pets by advertising the City Ordinance when owners are required to annually license their pets and pick up dog tags. The Ordinance requires owners to clean up their pet's waste, control excessive barking, and ensure that their dog is properly vaccinated against rabies. Monetary penalties apply if the ordinance is not adhered to. Signs are posted throughout the City at the 38 fields/parks and 20 miles of beach referencing the City's Ordinance. These signs are vandalized frequently and the Parks Department works to maintain and replace these signs. Interest in "mutt-mitt" stations has declined recently and two remain active in the City. City website under "Tips to be a Good Neighbor" section includes information about cleaning up pet waste.	Measurable goals for 2003 General Permit have been met.
2-5	Flagship Beach Program	DPW & EPA	Coordinate with EPA as needed.	Wollaston Beach is an EPA "Flagship Beach," which receives frequent water quality monitoring and pollution source assessments.	As needed, the City plans to support EPA efforts at Wollaston Beach.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-1 Revised	Drainage System Mapping	DPW	Locate all outfalls	The City has developed a drainage system map that shows the locations of all 190 outfalls in the City and the names of the waterbodies that receive discharges from the outfalls. This data is available on an internal ArcReader data viewer to several City Departments.	Measurable goals for 2003 General Permit have been met.
3-1 Revised	Drainage System Mapping	DPW Engineering	Complete drainage system mapping	Drainage system mapping is approximately 90% complete. Map includes catch basins, drainage manholes, ditch inlets, tide gates, and connectivity, where known. As infrastructure projects and drainage system inspections are completed, map is updated as needed. The City's GIS property viewer is available to the public on the City's website and shows the locations of all drainage structures.	Measurable goals for 2003 General Permit have been met. As budget allows, continue field verification of drainage system.

3-2 Revised	Outfall Testing Program	DPW	Inspect all City discharges	The DPW regularly inspects outfalls and removes debris from catch basins with the vactor and clam truck and outfalls in problem areas, to avoid flooding. The City maintains a complaint log of residents' calls. As part of the Town Brook Enhancement Project in Quincy Center, the City identified numerous illegal sewer connections. The project will remove these illegal connections and is currently out to bid. The City expects the project to be complete by November 2012. An aggressive drain system cleaning and assessment was conducted in the late summer of 2011 in North and West Quincy for systems discharging to the Sagamore Creek and Furnace Brook. The City also investigated over 12,000 LF of drain in the North Quincy region of the City discharging to Wollaston Beach. These inspections were focused on identifying sources of bacteria, namely, illicit sanitary sewer connections. The drain pipe CCTV inspections identified 13 unconfirmed connections, but dye testing of nearby buildings did not confirm any as sanitary sewer connections.	City will continue to clean structures in problem areas as needed and as budget allows and remove illicit connections/discharges once identified. Upon reissuance of the new General Permit, the City will develop an Outfall Monitoring Program that meets EPA's requirements.
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3-2 Revised	Outfall Testing Program	Health Dept	Sample discharges with flow present	The Health Department collects weekly samples from thirteen beaches. DCR collects daily samples at four locations on Wollaston beach. EPA may conduct additional testing during the summer (see BMP 3-5). Results of beach water quality monitoring are published on the Massachusetts Department of Public Health – Bureau of Environmental Health website. The City posted a 2011 Bathing Beach Water Sampling Report Summary on the Health Department website.	Continue bathing beach testing.
3-2 Revised	Outfall Testing Program	Health Dept.	Follow-up testing on discharges showing contamination	As part of ongoing drainage improvements throughout the City, follow up dye testing has been conducted to determine if discharges are contaminated.	Continue practice.
3-3 Revised	Illegal Dumping Education	DPW	Storm water committee to distribute flyers, posters & other educational material	The topic of illegal dumping and the connection between the storm drain and the beaches was addressed in the public access services titled “How Quincy Works,” which plays regularly on QATV. Friends of Wollaston Beach have previously sponsored stenciling of “no-dumping” on catch basins around Wollaston Beach.	Measurable goals for 2003 General Permit have been met. Continue practice. The City’s DPW may expand the stenciling program elsewhere in the City.
3-3 Revised	Illegal Dumping Education	DPW	Document and investigate illegal dumps reported by citizens	DPW documents illegal dumping as part of daily complaint log, but did not receive any calls to that effect in Permit Year 9.	Continue current practice.

3-3 Revised	Illegal Dumping Education	DPW	Enforce Penalties	DPW documents illegal dumping as part of daily complaint log, but did not receive any calls to that effect in Permit Year 9, and therefore enforcement was not needed.	Continue current practice.
3-4	Ordinance Review and Update	DPW	Review and revise ordinances	Ordinance Governing Discharges to the Municipal Storm Drain System enacted in 2005 (#2005-094). This ordinance prohibits non-stormwater discharges to the MS4 and illegal dumping, and includes enforcement procedures and actions.	Measurable goals for 2003 General Permit have been met.
3-5	Flagship Beach Program	DPW & EPA		See BMP 2-5	See BMP 2-5
3-6	Sewer Manhole Replacement Project	Department of Public Works	PY7 – Perform sewer evaluation to prevent pollution of sensitive areas PY8 - Implement recommendations of sewer evaluation	The first phase of the City's on-going infiltration and inflow (I/I) removal project wrapped up in April of 2011 and focused on coastal areas of the City. A total of 85 manholes received a monolithic cement liner, 9 manholes were replaced entirely due to structural degradation and leaks, and 16 manholes received some other form of rehabilitation. All work was completed to remove I/I from the sewer system resulting in extraneous flow. The City launched an aggressive CCTV investigation program in the summer of 2011 to identify additional I/I in the sewer system. These investigations concentrated in the Hough's Neck, Adam's Shore, and Squantum coastal regions of the City where considerable tidally influenced I/I occurs. Over 500,000 gpd of infiltration was identified in these pipes	City will continue with the sewer manhole and pipeline assessment and rehabilitation projects in conjunction with the MWRA.

3-6	Sewer Manhole Replacement Project (continued)			alone and some of these defects were rolled into the Phase IIA construction project discussed below. Repairs for these defects were identified and will be implemented in the next construction phase for removal as funding becomes available. Phase IIA of the City's on-going I/I removal project started in October 2011 and continued work in coastal areas of the City. The contractor shut down temporarily for the winter, and as of the date of this report has completed 23 manhole replacements due to structural degradation and leaks, and the rehabilitation of 25 other manholes. Work under Phase IIA that is scheduled to take place once the contractor resumes work includes monolithic cement lining of 36 manholes and cured-place-pipe (CIPP) lining of approximately 2,300 linear feet of sewer pipe. Some of the CIPP Lining will take place in sewer segments where indirect flow from catch basins and the drainage system is contributing to sewerage flow. This CIPP lining will also remove the infiltration from the sewer and will prevent potential exfiltration of the sewer into the drain network during periods when the sewer is surcharged.	
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4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4-1 Revised	Ordinance Review and Updates	DPW	Review and Revise current erosion and sediment control ordinance	Land Disturbance ordinance enacted in 2008 (#2008-125). Ordinance requires erosion and sediment control at construction sites disturbing one or more acres or less if part of common plan of development.	Measurable goals for 2003 General Permit have been met. Continue to implement and enforce ordinance.
4-2 Revised	Construction Reviews	DPW	Develop and implement standard project review procedures	City's Engineering Dept. continued to implement the construction review process on sites regardless of lot size to ensure that all stormwater runoff from construction sites has adequate erosion and sediment controls. In addition, the Conservation Commission inspects construction sites in their jurisdiction for proper implementation of erosion and sediment control BMPs.	Measurable goals for 2003 General Permit have been met.
4-2 Revised	Construction Reviews	DPW & Building Inspection Services	Develop and implement standard construction details	City continues to add construction details to files as needed.	Measurable goals for 2003 General Permit have been met. Continue current practices.
4-2 Revised	Construction Reviews	Engineering	Develop and implement standard inspection review procedures, document inadequate sites/plans reported and non-complaint permits	Engineering Department and Conservation Commission implements standard inspection review procedures. Engineering Department rejects inadequate plans. Permits are not issued until appropriate corrections are made to plans.	Measurable goals for 2003 General Permit have been met. Continue current practices.

4-3 Revised	Public Information	DPW	Continue "Hot Line"	DPW continues to make 24 hour hot line available, and responds to complaints received.	Measurable goals for 2003 General Permit have been met. Continue use of hot line for public complaints.
4-3 Revised	Public Information	DPW	Document & investigate complaints	DPW maintains daily log and enters all complaints received. Complaints are investigated as needed.	Measurable goals for 2003 General Permit have been met. Continue to maintain log and investigate complaints, as needed and as budget allows.

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5-1 Revised	Ordinance Review and Update	Department of Public Works	Review and Revise Current Storm Water Ordinances	Post Construction ordinance enacted in 2008 (#2008-126). Ordinance regulates post-construction stormwater runoff from new development and redevelopment projects disturbing one or more acres (or less if part of common plan of development).	Measurable goals for 2003 General Permit have been met. Continue implementation and enforcement of ordinance.
5-1 Revised	Ordinance Review and Update	Engineering Dept.	Develop and implement standard construction details and policies	City's Engineering Department has implemented standard construction details and policies and conducts detailed review.	Measurable goals for 2003 General Permit have been met. Continue current practices.
5-2 Revised	Project Reviews	DPW	Develop and implement standard Project Review Procedures	Engineering and the Sewer, Water, & Drain Division have standard project review procedures in place.	Measurable goals for 2003 General Permit have been met. Continue current practices.

5-2	Project Reviews	DPW & Building Inspection Services	Develop and implement standard construction details	As needed, existing files are updated with construction details. As-builts are provided to City following construction.	Measurable goals for 2003 General Permit have been met. Continue current practices.
Revised					
5-2	Project Reviews	Engineering	Develop and implement Standard Inspection Review Procedures	Engineering, Sewer, Water, & Drain and Building Inspectors have standard project review and inspection procedures in place	Measurable goals for 2003 General Permit have been met. Continue current practices.
Revised					
5-3	Project Reviews	Building Inspectors	Document inadequate site plans reported by inspectors	Ordinance enforced jointly by DPW & Inspectional Services	Measurable goals for 2003 General Permit have been met. Continue current practices.
5-4	Project Reviews	DPW	Report non-compliant permits	Departments coordinate to resolve issues of non-compliance or the potential thereof.	Measurable goals for 2003 General Permit have been met. Continue current practices.

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1	Predictive Catch Basin Program	Department of Public Works	Continue with current program	City continued the current catch basin, storm drain, outfall, and tidegate inspection program. Structures (catch basins, drainage pipes, and outfalls) are cleaned as needed to address flooding issues. In 2011, catch basins were cleaned twice per year.	Measurable goals for 2003 General Permit have been met. Continue current practices.
Revised					

6-2	Street Cleaning Program	Department of Public Works	Continue with current program, review the effectiveness of the program	All streets were swept twice in 2011: once in Spring and once in Fall. Weather permitting, the City sweeps business district and high traffic areas throughout the year.	Measurable goals for 2003 General Permit have been met. Continue to sweep streets as budget allows.
Revised					
6-3	Inspect City owned BMPs for Retrofit Opportunities	Department of Public Works	Inspect three structural BMPs per year and implement two retrofit projects	As needed, the City inspects Stormceptors and inspects areas based on complaints. In 2011, the City looked to improve their response system to call-in complaints, looked into the use of stormceptors for drainage applications. In addition, the Downtown redevelopment work will include construction of BMPs to further treat stormwater runoff.	Continue to look for advantageous locations for the implementation of stormwater retrofits.
Revised					
6-4	Municipal Employee Training	Department of Public Works	Continue with current program	City staff continued to be aware of proper maintenance procedures for parks and open space, city-owned vehicles and equipment, buildings, street sweeping, and the drainage system. City staff is familiar with proper practices to prevent pollution in stormwater due to municipal operations and new employees go through an orientation program covering these topics. Additionally, DPW staff attended conferences such as those sponsored by AWWA and NEWEA where technical seminars regarding stormwater are presented.	Measurable goals for 2003 General Permit have been met. Continue current practices and look for training opportunities/programs more specific to Quincy's stormwater challenges.
Revised					
6-5	Woodbine Street Stormwater Improvements Project	Engineering Department	PY7 and 8 – Proceed with Woodbine Street area drainage improvements	Measurable goal met. No work planned in Permit Year 9.	BMP complete.

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

The Final Pathogens TMDL for the Neponset River is being met by BMP ID # 1-3, 2-2, 2-4, 2-5, 3-2, 3-3, 3-4, 3-5, and 3-6.

7b. WLA Assessment

The following table summarizes the WLA for the Neponset River:

Fecal Coliform Waste Load Allocations (WLAs) and Load Allocations (LAs) for the Neponset River and Identified Tributary Streams		
Surface Water Classification	Bacteria Source Category	WLA (organisms per 100 ml) LA
B	Illicit Discharges to Storm Drains	0 N/A
B	Leaking Sanitary Sewers	0 0
B	Failing Septic Systems	N/A 0
B	Storm Water Runoff	GM < 200 GM < 200 90% ≤ 400 90% ≤ 400
B	Sanitary Sewer Overflows	0 0
SB	Illicit Discharges to Storm Drains	0 N/A
SB	Failing Septic Systems	N/A 0
SB	Storm Water Runoff	GM ≤ 88 GM ≤ 88 90% ≤ 260 90% ≤ 260
SB	(Boston, Milton and Quincy)	
SB	Sanitary Sewer Overflows	0 0
SB	Combined Sewer Overflows	0 N/A
GM means geometric mean		
N/A means not applicable		

The City is making steady progress towards meeting the WLA through implementation of existing BMPs, in particular, the outfall testing program and the illicit discharge detection and elimination program. At this time the City does not plan to add additional BMPs to address the WLA.

Part IV. Summary of Information Collected and Analyzed

- Sampling was conducted at Quincy's public beaches. Results are available at: http://mass.digitalhealthdepartment.com/public_21/beaches.cfm
- The City's Health Department website presents the Bathing Beach Water Sampling Report Summary. The 2011 report is available on the City's website at http://www.quincyma.gov/CityOfQuincy_Content/documents/summary2011.pdf
- The City's Beach Guide is available by selecting "Beach Guide 2011" from the City's homepage: <http://www.quincyma.gov/>
- The results of the Wollaston Beach Drainage Water Quality Study are available upon request through the Engineering Department at 55 Sea Street.