Municipality/Organization: **City of Quincy**

EPA NPDES Permit Number: MAR0410819/MADEP

MaDEP Transmittal Number: **W- 041020**

Annual Report Number & Reporting Period: **No. 5: March 07-March 08**

APR 30 2008

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Brian Carlisle Title: Superintendent

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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: April 25, 2008

Part II. Self-Assessment

The City of Quincy is complying with permit conditions.

Three branch-committees exist. The primary areas of focus are: Monclair Bog, Wollaston Beach/ Blacks Creek/Dickens Marsh, Mallard Road Marsh, and Town Brook (smelt spawn).

The Wollaston Beach committee has adopted a catch basin stenciling program.

Door hangers have been printed and are distributed in residential neighborhoods during storm drain cleaning operations. The hangers are intended to educate the general public about the storm water collection system.

Phase 2 Quincy Shore Drive sewer rehabilitation has been completed.

The construction of Fenno Street (Blacks Creek watershed) area sewer rehabilitation project will be complete late Spring 2008

Mutt-mitt stations have been re-established and are overseen by the city's Program Manager. Residents are aware of the stations as evidenced by the requests for restocking and requests for additional stations.

The City is currently reviewing potential locations for a dog park.

The Department of Public Works purchased a pole camera in 2007 to use in conjunction with its Vactron unit. In addition to catch basins being cleaned laterals and mains are being cleaned and checked for damage & illicit connections.

The City of Quincy and USEPA Flagship Beach Program partnership continued through 2007.

In 2007 the area V drainage filtration beds were cleaned the city hopes to add additional filtration media in 2008. This drain system flows out to Wollaston Beach.

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year
1-1	Classroom education	Department of Public Works	Outreach to Ecology Clubs in Schools	The city has worked with several local students with research for storm water reports	Plan to continue with this practice
Revised					
	Flyer & Brochure distribution	Department of Public Works	Develop & distribute materials for public education	Door hangers have been printed and are distributed in neighborhoods during catch basin cleaning. Flyers provided by the MWRA are handed out at the DPW	Plan to continue with this practice
Revised					
		Department of Public Works	Issue One Local Cable Public Service Announcement (PSA)	Two PSAs concerning Hazmat	PSA specific to BMPs planned for Permit year 5 and beyond
Revised					
		Department of Public Works	Annual article by Sewer/Water/Drain Superintendent	Articles in response to press inquiry about predicted heavy rain event	City responds to all press inquiries
Revised					
		Department of Public Works	Publish one storm related article each year	Propose to develop a DPW newsletter that will be mailed to households	Propose to develop a DPW newsletter that will be mailed to households.
Revised					
		Department of Public Works	Expand City Website to include Storm Water Topics and links	City is updating website	Develop Website as planned.
Revised					

1a. Additions

	Public Safety Fair	All City Depts	Annual Public information Fair	3nd Annual Public Safety Fair held storm water information distributed and equipment demonstration	Continue each year

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year
	Storm Water Committee	Department of Public Works (DPW)	Establish the Committee hold quarterly meetings	3 branch committees established meetings have become annual	Have annual meetings discuss progress and future goals for each water shed
Revised					
	Storm Cleanup and Management	DPW	Track Clean-up activities per year. Track number of clean-up participants Track number of miles cleaned by volunteers	"Cleaner Greener Quincy" held in 2007 1000+- volunteers and All city departments cleaned 100 tons of debris (4) miles , same areas are focused on annually	Cleaner Greener Quincy will be held again. Post storm cleanup is a function of the DPW and Parks Departments.
Revised					
	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"	Dog Park in planning stage 26 stations have been re-established. Stations have been located at residents requests.	Continue maintaining "pooper-scooper stations" . Construct a dog park
Revised					
	Flagship Beach Program	DPW & EPA		Established partnership. Focus has been biological testing	Continue working with EPA Biologists
Revised					

Revised					

3a. Additions

	Flagship Beach Program	DPW & EPA		Established partnership. Focus has been biological testing	Continue working with EPA Biologists

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year
Revised	Ordinance Review and Updates	DPW	Review and Revise current erosion and sediment control ordinance	Ordinance adopted June 2005 2 additional ordinances placed into public works committee: #2008-125 & 2008-126 (Land disturbance & Post construction)	Continue enforcement
Revised	Construction Reviews	DPW	Develop and implement standard project review procedures	The city's Engineering Dept. has implemented a construction review process on sites regardless of lot size for the past (6) +- years to ensure that all post construction stormwater runoff has been in compliance with BMP's	Ongoing
Revised		DPW & Building Inspection Services	Develop and implement standard construction details	Construction details are added to files as needed	Ongoing
Revised		Engineering	Develop and implement standard inspection review procedures	Inadequate plans are rejected by the Engineering Dept. and permits are not allowed until appropriate corrections are made	Ongoing
Revised		DPW	Continue "Hot Line"	Ongoing	Ongoing
Revised			Document & investigate complaints	A daily log is maintained by the DPW all complaints are entered	Ongoing

4a. Additions

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year
	Ordinance Review and Update	Department of Public Works	Review and Revise Current Storm Water Ordinances	Ordinance adopted June 2005 Addition "Post Construction" ordinance in committee	Ongoing
Revised					
		Engineering Dept.	Develop and implement standard construction details and policies	The city's Engineering Dept. has implemented a construction detail review.	Ongoing
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	Ongoing
Revised					
			Develop and implement standard construction details	Existing files are updated with construction details as required	Ongoing
Revised					
			Develop and implement Standard Inspection Review Procedures	Engineering, Sewer, Water, & Drain and Building Inspectors have standard procedures in place	Ongoing
Revised					
Revised					

5a. Additions

		Building Inspectors	Document inadequate site plans reported by inspectors	Ordinance enforced jointly by DPW & Inspectional Services	ongoing
		DPW	Report non-compliant permits	All issues of non-compliance or the potential thereof are reported/resolved interdepartmentally	ongoing

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year
	Predictive Catch Basin Program	Department of Public Works	Continue with current program	Continue the current catch basin, storm drain & tidegate inspection program including operations & maintenance of the storm water system	Continue current practices
Revised					
	Street Cleaning Program	Department of Public Works	Continue with current program	Continue Current Program	Continue current practices
Revised					
	Inspect City owned BMPs for retrofit Opportunities	Department of Public Works	Inspect Three Structural BMPs Per Year	Purchased 3 "Storm- Septors"	Continue current practices & Install 3 "storm septors"
Revised					
	Municipal Employee Training	Department of Public Works	Continue with current program	Management & non-management employees have had some training	Greater emphasis on training required for success of program
Revised					
Revised					
Revised					

6a. Additions

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) *<<if applicable>>*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The City has many successful programs in place (street sweeping, catch basin cleaning, tide-gate maintenance, household hazardous waste, "Cleaner Greener Quincy" & marsh restoration/maintenance)

A strong ordinance that addresses discharges into the storm water collection system has been adopted. The ordinance enables city personnel to rapid response and subsequent enforcement.

Two new ordinances are currently under review: 2008-125 Stormwater Management & Land Distribution
2008-126 Post Construction Stormwater Management

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	($)	$25,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	>50 %
Stormwater management committee established	(y/n)	yes
Stream teams established or supported	(# or y/n)	yes
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	4 miles
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	2
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	yes

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	99
Estimated or actual number of outfalls	(#)	40
System-Wide mapping complete	(%)	90
Mapping method(s)		
▪ Paper/Mylar	(%)	100
▪ CADD	(%)	50
▪ GIS	(%)	85
Outfalls inspected/screened	(# or %)	40
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	99.7
% of population on septic systems	(%)	0.3

Construction

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

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)	

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)	2
Total number of structures cleaned	(#)	3000
Storm drain cleaned	(LF or mi.)	3500
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	300-500 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	Compost	Compost
Cost of screenings disposal	($)	0

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	2
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	200
Qty. of sand/debris collected by sweeping	(lbs. or tons)	2000
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Compost
Cost of sweepings disposal	($)	0
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	N/a

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	0
▪ Herbicides	(lbs. or %)	0
▪ Pesticides	(lbs. or %)	0

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	50% or 100% 50%
Pre-wetting techniques utilized	(y/n)	no
Manual control spreaders used	(y/n)	yes
Automatic or Zero-velocity spreaders used	(y/n)	no
Estimated net reduction in typical year salt application	(lbs. or %)	0
Salt pile(s) covered in storage shed(s)	(y/n)	yes
Storage shed(s) in design or under construction	(y/n)	no