Municipality/Organization: VA Boston Healthcare System – Jamaica Plain

EPA NPDES Permit Number:

MassDEP Transmittal Number: W-041325

Annual Report Number & Reporting Period: **Year 11**
April 1, 2013 – March 31, 2014

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2014)

Part I. General Information

Contact Person: Bryan Soltysik Title: GEMS Coordinator

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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: VINCENT DE

Title: DIRECTOR, VA BOSTON HEALTH CARE SYSTEM

Date: 4/18/14

Part II. Self-Assessment

The VA Boston Healthcare System - Jamaica Plain has completed the required self-assessment and has determined that our facility is in compliance with all permit conditions.

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
1.3.1	Public Education Materials	GEMS Coordinator	Accumulate, develop, review, update information for the Jamaica Plain campus	Reviewed and updated fact sheets, educational materials and medical center policies to include information about storm water.	Update materials as needed.
1.3.2	Training Programs	GEMS Coordinator	Develop, review and conduct annual general awareness training for Engineering staff and New Employee Orientation. Educate contractors prior to construction activities.	Conducted annual refresher awareness training for Engineering Staff and conducted basic awareness training during New Employee Orientation. Contractors are educated during pre-construction meetings.	Continue to review, update and conduct trainings.
1.3.3	Storm Drain Identification Program	GEMS Coordinator/Engineering	Develop, implement and maintain storm drain identification	As part of our annual Earth Day celebration, employees were educated on storm water. storm drains were re-stenciled with blue fish.	Continue to review storm drain locations and update as necessary.

1a. Additions

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
2.3.1	Annual Environmental Awareness Program	GEMS Coordinator	Facility staff and volunteers to help keep campus clean	Various volunteers and public service organizations donate time to clean grounds	Various volunteers and public service organizations donate time to clean grounds
2.3.2	Partner with City of Boston	GEMS Coordinator/Engineering	Form Partnerships	Continued member of the Charles River Watershed Association which covers the Muddy River Watershed	Continue Partnership
2.3.3	Suggestion Box	GEMS Coordinator	Implement suggestion program	Suggestions for program enhancement can be submitted via GEMS "Green Box" on SharePoint site.	Continue suggestion feedback program.

2a. Additions

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
3.4.1	Storm Drain Map	GEMS Coordinator/Engineering	Update campus storm drain map	Map was reviewed and updated as necessary.	Review and update storm drain map as necessary.
3.4.2	VA Stormwater Policy for the Jamaica Plain Campus	GEMS Coordinator	Stormwater management plan	Plan was reviewed and updated as necessary.	Review and update plan as necessary.
3.4.3	Illicit discharge detection program	GEMS Coordinator/Engineering	Visual observation of storm drains	All staff are made aware of notification procedure for any suspected illicit discharges	Annual training for all staff on notification procedure for any suspected illicit discharges
3.4.4	Illicit discharge elimination program	GEMS Coordinator/Engineering	Correct any illicit discharges identified	One illicit discharge from storm water to sewer was capped and corrected with construction project	Continue to correct and illicit discharges identified
Revised					
Revised					

3a. Additions

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
4.2.1	Regulatory Controls	GEMS Coordinator/Engineering	Environmental control specifications are included in all construction contracts that may impact stormwater	Environmental control specifications have been included in all applicable construction contracts	Continue to include environmental controls in applicable construction contracts
4.2.2	Review and conduct site inspections	GEMS Coordinator/Engineering	Review VA policy with contractors	GEMS determinations are conducted with contractors prior to construction so workers are aware of control measures	Engineering project managers are responsible for inspections and enforcement of construction control measures
4.2.3	Enforcement procedures	GEMS Coordinator/Engineering	Develop sanctions to ensure compliance	Construction sites reviewed for compliance	Continue to review and inspect construction plans and sites
4.2.4	Procedures to record and address public comment		Maintain record of comments received	No public concerns were noted.	Continue to maintain record of comments received and actions taken to address public concerns.
Revised					
Revised					

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5.3.1	Structural storm water controls	GEMS Coordinator/Engineering	Identify structural controls and update facility storm drain map	Need for phosphorus capturing system was identified.	Construction project will install new phosphorus capturing system.
5.3.2	Storm water policy	GEMS Coordinator/Engineering	Develop policy to preserve surface water quality	Review stormwater policy and modify as appropriate	Reviewed and updated as necessary
Revised					
Revised					
Revised					
Revised					

5a. Additions

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
6.3.1	Employee training program	GEMS Coordinator	Provide all employees training	Stormwater awareness training is included during new employee orientation and annual GEMS training	Continue annual awareness training for all employees
6.3.2	Catch basin cleaning program	Engineering	Clean stormwater catch basins as needed	Storm drain catch basins associated with construction were cleaned; oil water separator was cleaned	Recommend engineering staff clean all catch basins annually
6.3.3	Street sweeping program	Engineering	Conduct periodic street sweeping	Street sweeping conducted as needed	Continue street sweeping campus as needed
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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
7.2.1	Storm water Discharge Testing Program	GEMS Coordinator/Engineering	Review TMDL's for Charles River and conduct sampling if required.	No sampling was conducted	Review TMDL's for Charles River and conduct sampling if required.
7.2.2	Existing BMP Performance Evaluation Program	GEMS Coordinator/Engineering	Evaluate existing BMP's and identify additional BMP's if necessary.	Evaluated existing BMP's, no changes or additions.	Evaluate existing BMP's and identify additional BMP's if necessary.
7.3.3	Monitoring Regulatory Developments	GEMS Coordinator	Monitor status of stormwater regulations	Monitor the status of stormwater regulations and submit annual report	Continue monitoring regulations and submit annual stormwater progress report
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2013 through March 31, 2014)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	Yes
Annual program budget/expenditures **	($)	2,400
Total program expenditures since beginning of permit coverage	($)	2,400
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	1
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	No
Shoreline cleaned since beginning of permit coverage	(mi.)	0
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	0
▪ community participation **	(# or %)	0
▪ material collected **	(tons or gal)	0
School curricula implemented	(y/n)	No

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	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

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	2
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	90%
Mapping method(s)		
▪ Paper/Mylar	(%)	90%
▪ CADD	(%)	90%
▪ GIS	(%)	0
Outfalls inspected/screened **	(# or %)	50%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	50%
Illicit discharges identified **	(#)	1
Illicit discharges identified (Since beginning of permit coverage)	(#)	1
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	1
% of population on sewer	(%)	100%
% of population on septic systems	(%)	0

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	0
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
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 (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	No
Low-impact development (LID) practices permitted and encouraged	(y/n)	Yes

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	0
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	0
Qty of structures cleaned **	(#)	1
Qty. of storm drain cleaned **	(%, LF or mi.)	0
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	125 lbs
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	TSDF

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	($)	$2,400
• Hourly or per basin contract rate **	($/hr or $ per basin)	0
• Disposal cost**	($)	$30
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	1
• Vacuum trucks specified in contracts	(y/n)	Yes
• % Structures cleaned with clam shells **	(%)	0
• % Structures cleaned with vactor **	(%)	100%

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	3 times/year
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	0
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or lane mile contract rate **	($/hr. or ln mi.)	
• Disposal cost**	($)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	No
• % Roads swept with rotary brush sweepers **	%	100%
• % Roads swept with vacuum sweepers **	%	0

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	0
▪ Herbicides	(lbs. or %)	0
▪ Pesticides	(lbs. or %)	0
Integrated Pest Management (IPM) Practices Implemented	(y/n)	No

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	25% NaCl 25% Sand 50% $MgCl_2$
Pre-wetting techniques utilized **	(y/n or %)	No
Manual control spreaders used **	(y/n or %)	Yes
Zero-velocity spreaders used **	(y/n or %)	No
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	+200%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	+100%
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	0
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Yes

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	No
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	No
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	No