

**Municipality/Organization:** Division of Capital Asset Management & Maintenance

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**EPA NPDES Permit Number:** MAR043018

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**MassDEP Transmittal Number:** W-036168 Grafton Complex, W-035906 Lancaster Complex, W-037313 Medfield State Hospital, W-039898 Oakdale Complex, W-035612 Glavin Regional Center

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**Annual Report Number & Reporting Period:** **Year 12**  
**April 1, 2014 – March 31, 2015**

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## **NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2015)**

### **Part I. General Information**

Contact Person: John O'Donnell

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Environmental Services

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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: \_\_\_\_\_

*John M. O'Donnell*

Printed Name: \_\_\_\_\_

John M. O'Donnell

Date: \_\_\_\_\_

4/28/15

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

DCAMM has been continuing work on stormwater management at each of the permitted facilities. Each facility received a copy of the Stormwater Management Manual in June 2012. As part of the Commonwealth's Integrated Facilities Management (IFM) Plan, DCAMM has incorporated four additional facilities this year into its operations and maintenance. These facilities include the Glavin Regional Center in Shrewsbury, the Milford DOC in Milford, a portion of the Worcester State Hospital campus, and the Monson Developmental Center in Palmer. Each of these newly integrated facilities will receive an updated version of the Stormwater Management Manual this spring.

The Glavin Regional Center was the only new facility to DCAMM with a current MS4 permit. As such, the Glavin Center's current MS4 permit BMPs have been incorporated into this report. The Glavin Center was previously operated and maintained by the Massachusetts Department of Developmental Services. It was turned over to DCAMM on July 1, 2014. All buildings are vacant except for the Childhood Development Center which is temporarily housing the Shrewsbury Public Library until their new building is ready. DCAMM has conducted a site inspection in accordance with Good Housekeeping control measures, inventoried and screened outfalls, and mapped the stormwater system at the Glavin Center and Milford DOC. The same site visits and inspections are planned for Monson and Worcester this Spring.

Annually, DCAMM will review new IFM properties assigned to DCAMM's control. If the facility is applicable to the MS4 program, it will be inspected to determine which BMPs are appropriate, and until a new permit is issued, DCAMM will strive to implement the proper BMPs as currently implemented at other DCAMM permitted facilities.

The Medfield State Hospital site has been sold to the Town of Medfield. DCAMM remains in control of a small portion of the site where the laundry building once was located. Capping of the C & D disposal area is underway and restoration of that area will be completed in the upcoming permit year.

## 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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Year 13
1A	Review educational BMP requirements with facility manager (all sites)	Stephen Casavecchia DCAMM	Meet with facility's personnel.	Facility managers have all been trained or have received a briefing on Stormwater Management. A Stormwater Management Training workshop was held April 24, 2015 with 9 DCAMM Staff and site users in attendance, including regional managers. The Stormwater Management Manual is kept on site at all facilities. Meetings were held this year at newly integrated facilities – Milford, and Glavin Center (Shrewsbury). Phone interviews were conducted for newly integrated facilities – Worcester and Monson Developmental Center (Palmer).	Site visits / meetings are planned for newly integrated facilities Worcester and Monson Developmental Center in Spring 2015. If the facility manager changes, then meet at facility with new facility manager. If a meeting is required then the goals are to review current programs and site users, and identify any needed changes to facility's activities and potential impacts to receiving waters. Otherwise a phone call check in will be sufficient.
1A.2	Education on NPDES and on-site activities - Grafton Job Corps.	Stephen Casavecchia DCAMM	Number of education materials reviewed/provided.	The Stormwater Management Manual is kept on site and used to train and educate staff and contractors.	Continue stormwater education for facility staff, visitors and contractors.

1A.3	Education on NPDES and on-site activities - Grafton DYS Facility	Stephen Connor DCAMM	Number of education materials reviewed/provided.	Literature regarding proper snow disposal and removal is displayed on site. Staff members actively participate in the Massachusetts Facility Management Managers Association training program, which includes the following stormwater related trainings: <ul style="list-style-type: none"> <li>• Best Practices Snow Removal</li> <li>• Floor Care and Green Cleaning</li> <li>• Integrated Pest Management</li> <li>• Sweeper Training</li> </ul> Two DCAMM staff for these sites were trained through MAFMA this year. The Stormwater Management Manual is kept on site and used to train and educate staff and contractors.	Continue stormwater education for facility staff, visitors and contractors. Continue MAFMA training as applicable.
1A.4	Education on NPDES and on-site activities - Oakdale Complex	John Scannell DCR	Number of education materials reviewed/provided.	Facility user provides ongoing stormwater pollution training to general public through brochures and events. Spill response training was conducted with approximately 15 staff in November 2014. Facility staff continue to implement Green Cleaning techniques with guidance from Toxic Use Institute staff.	Continue stormwater education for facility staff, visitors and contractors.
1A.5	Education on NPDES and on-site activities - Lancaster Complex	Stephen Casavecchia DCAMM	Number of education materials reviewed/provided.	Staff attended Stormwater Management Training workshop on April 24, 2015. A Stormwater Management Manual is kept on site and used to train and educate staff and contractors.	Continue education for onsite facility staff and users.
1A.6	Education on NPDES and on-site activities - Medfield	Stephen Casavecchia DCAMM	Number of education materials reviewed/provided.	Staff attended Stormwater Management Training workshop on April 24, 2015. A Stormwater Management Manual is kept on site and used to train and educate staff and contractors.	Site has been sold, with the exception of a small portion being restored. Reassess education needs.

**1a. Additions**

01.2	Glavin Regional Center - Spill Prevention Containment Countermeasure Plan	Stephen Wright DCAMM	Maintain Revisions & Annual Review	SPCC Plan reviewed.	Keep SPCC plan on file in maintenance office.
01.3	Glavin Regional Center - Employee Meetings	Stephen Wright DCAMM		Good Housekeeping assessment and meeting held this year.	No permanent staff on site. Public library temporarily using site. Reassess meeting needs.
03	Glavin Regional Center - Employee Education	Stephen Wright DCAMM	Training Sessions	Inform employees of regulations. Stormwater Management Training held on April 24, 2015.	No permanent staff on site. Public library temporarily using site. Reassess training / education needs.

## 2. Public Involvement and Participation

<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 12</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Permit Year 13</b>
2A	Public Information Meeting (all sites)	Stephen Casavecchia DCAMM	Review meeting needs	Meeting needs were discussed. No public meetings identified.	Once annually the DCAMM Project Manager will discuss public information meeting needs with each facility manager.
2A.1	Public Information Meeting - Grafton Complex sites	Stephen Casavecchia DCAMM Stephen Connors DCAMM	Number of meetings	No meetings held.	No meetings anticipated.
2A.2	Public Information Meeting Oakdale	John Scannell DCR	Conduct meeting.	Facility user at Oakdale site continues to work directly with DPW directors and Town Administrators from some of the main watershed communities, focusing on individual stormwater management issues, such as BMP maintenance. In addition, DCR is assisting West Boylston with mapping its stormwater system.	Continue throughout permit term.
2A.3	Public Information Meeting Lancaster	Stephen Casavecchia DCAMM	Number of meetings	No meetings held.	No meetings anticipated.
2A.4	Public Information Meeting Medfield	Stephen Casavecchia DCAMM	Number of meetings	No meetings held.	No meetings anticipated.

### 2a. Additions

01	Glavin Regional Center – Catch Basin Identification	Stephen Wright DCAMM	Catch Basins Stenciled	Complete. Catch basins are labeled specific drains “Dump No Waste”.	Monitor – Review new stencils, labels.
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### 3. Illicit Discharge Detection and Elimination

<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 12</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Permit Year 13</b>
3A	Conduct dry weather sampling of outfall.	Stephen Casavecchia DCAMM	Identify suspected illicit connections as DCAMM obtains additional surplus property.	DCAMM conducted dry weather inspections at 8 outfalls located at newly integrated facilities – Glavin Regional Center in Shrewsbury (1 outfall) and Milford DOC (7 outfalls). Results indicate no suspected illicit discharges.	Continue outfall inspections at newly integrated facilities. Inspections planned for Worcester and Monson Developmental Center in Spring 2015.
3B	Investigate drainage system.	Stephen Casavecchia DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Drainage system maps are available for each facility. GIS mapping of Glavin Center and Milford DOC were completed/integrated with DCAMM mapping in January 2015.	Continue to update GIS mapping throughout permit term, as necessary.
3B.1	Investigate drainage system – Grafton Job Corps	Stephen Casavecchia DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Complete.	No action required.
3B.2	Investigate drainage system – Grafton DYS Facility	Stephen Connor DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Complete.	No action required.
3B.3	Investigate drainage system - Oakdale	John Scannell DCR	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Complete.	No action required
3B.4	Investigate drainage system – Lancaster Complex	Stephen Casavecchia DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Complete.	No action required.

3B.5	Investigate drainage system - Medfield	Stephen Casavecchia DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Complete.	No action required.
3C	If outfalls are polluted, eliminate the sources.	Stephen Casavecchia DCAMM	Resample sources to verify polluted sources are removed.	No illicit discharges were found. Therefore, no action taken.	No action required.

### 3a. Additions

3B.6	Investigate drainage system – Milford	Stephen Casavecchia DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Complete.	No action required.
3B.7	Investigate drainage system – Glavin Regional Center	Stephen Wright DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Complete.	No action required.
3B.8	Investigate drainage system – Monson Developmental Center	Stephen Casavecchia DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Not yet completed. Scheduled for Spring 2015.	Complete investigations in Year 13.
3B.9	Investigate drainage system – Worcester State Hospital	Stephen Casavecchia DCAMM	For all suspect outfalls, identify outfall tributaries and investigate drainage system.	Not yet completed. Scheduled for Spring 2015.	Complete investigations in Year 13.
01.1	Glavin Regional Center– Storm Sewer Map	Stephen Wright DCAMM	Annual Review – Catch Basins identified	All catch basins identified. GIS mapping of all stormwater structures by DCAMM completed January 2015.	Update mapping as necessary.

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
4A	Incorporate EPA’s Construction General Permit for DCAMM construction projects of 1 acre or greater of disturbed land area.	Danelle Tudor DCAMM	Completed	DCAMM continues to incorporate EPA NOIs into DCAMM Standard Specifications. Contractors also completed NOIs. Standard specifications include requirement that contractor shall keep site clean and will hire a street sweeper if applicable. DCAMM assists with development of SWPPPs on a project by project basis.	DCAMM continues to incorporate EPA NOIs into DCAMM Standard Specifications. Contractors also completed NOIs.
Revised					
Revised					
Revised					

#### 4a. Additions

04	Glavin Regional Center – Local Ordinance	Stephen Wright & Engineering DCAMM	Review Town Warrant Article	Reviewed DCAMM’s Stormwater Policy.	Annual Review.
05	Glavin Regional Center – MA Stormwater Policy	Stephen Wright & Engineering DCAMM	Review MA Stormwater Policy.	Complete.	Monitor changes via website.
06	Glavin Regional Center – Site Plan Review	Stephen Wright & Engineering DCAMM	Review Projects as necessary.	Submit any field changes as needed.	Submit any field changes as needed.

## 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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
Revised					

### 5a. Additions

07	Glavin Regional Center – Local Ordinance	Stephen Wright & Engineering DCAMM	Review Town Warrant Article	Additionally, reviewed DCAMM's Stormwater Policy.	Annual Review.
08	Glavin Regional Center – MA Stormwater Policy	Stephen Wright & Engineering DCAMM	Review MA Stormwater Policy.	Complete.	Monitor changes via website.

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

<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 12</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Permit Year 13</b>
6B	Employee training (all sites)	Danelle Tudor DCAMM	Discuss employee training needs with individual facility managers. Speak with facility managers at all sites	Reviewed facility information with each facility manager. Information pertaining to each applicable site is listed below. DCAMM Staff and Site users attended a Stormwater Management Training in April 2015.	Continue throughout permit term.
6B.1	Employee training – Grafton Job Corps	Stephen Casavecchia DCAMM	Number of employees trained.	An updated Stormwater Management Manual is currently being used to train maintenance employees on stormwater matters.	Continue throughout permit term
6B.2	Employee training – Grafton DYS	Stephen Connor DCAMM	Number of employees trained.	1 staff members from the Grafton DYS Complex attended stormwater related trainings offered by Massachusetts Facility Management Managers Association (MAFMA).	Continue to attend stormwater trainings through MAFMA as they are offered. New staff will attend the next Stormwater Management training workshop held by DCAMM.
6B.3	Employee Training - Oakdale	John Scannell DCR	Number of employees trained.	15 employees received training on roadway spill response in November 2014.	Continue throughout permit term
6B.4	Employee Training – Lancaster & Medfield	Stephen Casavecchia DCAMM	Number of employees trained.	2 employees received stormwater management related training this year, including the April 2015 Stormwater Management Training Workshop.	Continue throughout permit term
6C (all sites)	Standard Operating Procedures	Stephen Connor Grafton DCAMM John Scannell DCR Stephen Casavecchia DCAMM	Good Housekeeping procedures established and implemented (assessed annually)	The updated Stormwater Management Manual includes discussion and education related to all applicable Good Housekeeping BMPs. It can be found in a designated location at each site.	Update SOPs as necessary throughout permit term.

6D All Sites	Materials Management	Stephen Connor Grafton DCAMM John Scannell DCR Stephen Casavecchia DCAMM	Proper storage of materials (assessed annually)	Outside waste containers/dumpsters are maintained properly including keeping them covered. Sand and salt storage areas are covered. A Good Housekeeping assessment (inspection form) was performed at each facility in April 2015.	Continue throughout permit term.
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## 6a. Additions

6a	Site inspection (all sites)	Stephen Casavecchia DCAMM	Number of site inspections performed	A Good Housekeeping assessment (inspection form) was performed at each facility in April 2015. Current good housekeeping practices were reviewed and compared to BMPs in the Stormwater Management Manual. No sand is being used at any sites, except Oakdale (watershed area) and on sidewalks for public library at Glavin Center.	Continue annual assessments.
6b	Update Good Housekeeping Manual (all sites)	Stephen Casavecchia DCAMM	Good Housekeeping Manual updated	Complete: Good Housekeeping BMPs are included in the updated Stormwater Management Manual.	Continue to utilize manual throughout permit term.
6c	Develop catch basin cleaning program (all sites)	Stephen Casavecchia DCAMM	Catch Basin Cleaning	DCAMM cleaned 12 catch basins at Lancaster this year. Additional assessments and recommendations for catch basins at newly added DCAMM facilities have been made.	Utilize catch basin assessments and recommendations to develop catch basin cleaning program for upcoming year.
6d	Site management (Medfield)	Stephen Casavecchia DCAMM	SOPs reviewed, site visited, and BMPs recommended.	Annual site assessment was completed in April 2015. Majority of this site has been sold to the Town of Medfield (December 2014).	Reassess SOPs for smaller site in DCAMM's control.
6e	Rain garden review (Oakdale)	John Scannell DCR	Rain garden feasibility researched	Complete. Construction of a rain garden was completed in September 2012. Rain garden provides treatment of storm flows from two parking areas and a driveway.	Continue to maintain rain garden.
6f (09-	Glavin Regional Center – Catch Basin	Stephen Wright DCAMM	Insepct, clean, and repair as needed.	Inspections and cleaning occurred in 2009/2010. Clear debris around basin	Schedule cleaning for Permit Year 13.

11)	Inspection, cleaning and maintenance			covers as needed. Recommendations have been made for cleaning in Year 13.	
6g (12)	Glavin Regional Center – Snow Removal	Stephen Wright DCAMM	Clean away snow and ice as needed	Snow removal and stockpiling procedures were reviewed this year during site assessment.	Maintain as needed.
6h (13)	Glavin Regional Center – Parking Lot & Driveway Sweeping	Stephen Wright DCAMM	Sweep and remove debris as needed	Completed in 2009. Recommendations have been made for cleaning in Year 13.	Schedule sweeping for Permit Year 13.
6i (14)	Glavin Regional Center – Eliminate the use of road sand	Stephen Wright DCAMM	10t to 0	100%. Completed in Year 11.	Continue with current practices.

**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>**  
**Not Applicable.**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
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, 2010 through March 31, 2011)

**Programmatic**

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

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	
▪ community participation **	(# or %)	
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	

**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					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					
Accompanying Regulation Status (indicate with “X”)					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					

**Mapping and Illicit Discharges**

	(Preferred Units)	Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	41 outfalls total at 7 locations
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened **	(# or %)	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100
Illicit discharges identified **	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed **	(# ); and (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and	

	(est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

### Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	1 (Medfield C&D Disposal Area capping)
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	(%)	
Site inspections (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	

### Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1x/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	n/a
Qty of structures cleaned **	(#)	

Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	< 1 ton
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vector **	(%)	

(Preferred Units) Response

Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	< 1x/yr
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	n/a
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	< 1 ton
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Commercial contract
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 (available to any DCAMM site)

• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	None
▪ Herbicides	(lbs. or %)	None
▪ Pesticides	(lbs. or %)	None
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

	(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 <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized **	(y/n or %)	Yes, as of April 2012
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/l <sub>n</sub> mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l <sub>n</sub> mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100

Storage shed(s) in design or under construction	(y/n or #)	
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	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	