

Municipality/Organization: City of Dover

EPA NPDES Permit Number: NHR041037

NHDES Transmittal Number: _____

Annual Report Number & Reporting Period:
No. 14 April 1, 2016 – March 31, 2017

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Douglas Steele **Title:** Community Services Director

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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: J. Michael Joyal, Jr.

Title: City Manager

Date: 4/25/17

Part II. Self-Assessment

The City of Dover continued to implement the identified tasks in its Stormwater Phase II NPDES minimum control measures in year fourteen of the initial General Permit. The Best Management Practices that Dover has continued to implement include:

- Dover has completed mapping the stormwater system which was initiated prior to the NPDES permit. The City continuously updates the mapping as the system grows and as staff finds inconsistencies between maps and field inspections during catch basin cleaning. A Community Services staff member is assigned to accompany the catch basin cleaning contractor and record the conditions of each basin. This year, the City created and staffed an Asset Management department, one of the tasks for this department is to continue to fine tune the stormwater mapping.
- The City held one Household Hazardous Waste Collection Day for Dover residents. This year 304 residents participated.
- Dover's recycling program includes weekly curbside pickup of recyclables as well the operation of a recycling center. The recycling center accepts many items including waste oil, white goods, tires, metal, C & D material, yard waste, computer monitors and other electronics, Freon containing appliances, used antifreeze and mercury containing items to reduce the waste stream and prevent the release of contaminants into the environment. The center also has a book exchange where residents can leave books for others to take. Dover's recycling rate is 66% of the waste stream, and is nationally recognized as a leader. The center accepts yard waste. The City also conducts an annual curbside leaf collection each fall for one week during after leaves have dropped. Yard waste and leaf pick-up is taken to local companies for use in compost. Last year, 1,080 cubic yards of yard waste was collected, and 160 tons of that was from the curbside pick-up program.
- The Engineering staff review 16 full subdivision and/or site plan applications before the Planning Board. Their review includes stormwater plans to insure the site meets all standards during construction and upon completion of the project. All projects are required to submit storm water O&M plans to insure long-term performance of storm water infrastructure. The City Engineering inspection team continued its inspection of construction sites for temporary erosion control during construction and the implementation of permanent stabilization and run off control measures per approved design plans.
- The Engineering Department utilized the VUEWorks work order management software to keep track of all of the Stormwater Operation and Maintenance annual reports that were submitted throughout the year, and to send reminders to all property owners that had not yet complied. The number of properties that submit annual reports continues to increase each year; however, there are still many who do not comply. Limited resources at the City prevent more aggressive enforcement. The City Planning Board requires that all Operation and Maintenance obligations be recorded with the deed at the Strafford County Registry of Deeds in order to ensure future property owners are aware of the process.

- The catch basin cleaning contractor cleaned 1442 basins during the 2016 summer season. This constitutes approximately ½ of all basins in the City.
- Dover Highway and Utilities crews addressed approximately 91 drainage related work orders, with a total cost including parts, labor and equipment of approximately \$517,000.
- The City of Dover hosts and is an active participant in the N.H. Seacoast Stormwater Coalition. The N.H. Seacoast Stormwater Coalition has accomplished much in recent years to further the goal of improved stormwater quality. Issues such as Public awareness, training of staff, and other common needs of Coalition member communities have been worked on successfully in collaboration. The Coalition also provides a forum in which to share our individual program experiences both good and bad. Many presentations on the work member communities are involved in were given during the year. This year, much of the discussion related to addressing each item outlined in the 2017 MS4 permit, and working towards a collaborative approach to meeting the requirements.
- No illicit connection were discovered during this annual reporting period. Dover has accomplished much work throughout the City over the years and records of the work were in numerous locations and formats. Surface illicit discharges, including runoff from spilt grease tanks near restaurants, were addressed as the city became aware of the concerns.

New activities aimed to achieve improved stormwater program performance and water quality improvement include:

- The Planning Board amendments to Dover’s Subdivision and Site Review regulations that strengthen stormwater requirements as required by the MS4 General Permit based on the Southeast Water shed Alliance model stormwater ordinances. The new regulations require the use of Low Impact Development techniques to address stormwater runoff. The amendments require all projects that propose to disturb an 20,000 square feet or more to submit plans to the Planning Board for review and approval. A presentation of the revisions was given to the Dover Utilities Committee in August, 2015. On April 12, 2016 the amendments to the Stormwater Regulations were presented to the Planning Board. Following the presentation the Planning Board voted affirmatively and the regulation modifications were included into the Site Plan and Subdivision development regulations.
- The Berry Brook Watershed Assessment and Management Plan was finalized in 2008. Though not a part of the City’s stormwater permit requirements; the efforts conducted in the Berry Brook watershed will be very useful in the implementation of anticipated requirements in future permits. Therefore, the work being done in the Berry Brook watershed is included in the permit annual report as a means of sharing with EPA and others. During the year of 2011 much was accomplished in the upper

portion of the watershed. The re-establishment of more than 1000 feet of stream bed was achieved at the headwaters of Berry Brook. Two bio-swales were created to treat two areas developed areas that discharge to the new stream bed. In 2012 a gravel wetland was constructed to provide treatment for a large shopping center parking lot and a portion of a City street runoff which feed into the newly established stream bed. A public elementary school, the Horne Street School, participated in the watershed improvements in 2011 by adding two rain gardens which infiltrate and treat the roof at the school, and a tree box filter that filter runoff from a newly paved parking area. The school will continue participating in the construction of a bio swale that will treat water from another proposed parking area off site that the City is constructing to treat street runoff in 2013. The combination of a rain garden in 2011 followed by a bio-swale was constructed in 2012 along Snows Court. The new stormwater structures infiltrate and treat more than 1.5 acres of residential and street run off that has caused nuisance flooding and erosion. The neighborhood was very engaged and supportive of the improvements in the planning of the project as well as during construction. One residential rain garden was installed which redirected roof runoff from the sanitary sewer. Roof run off is a significant source of inflow into the sewer system. In 2012 a bioswales were constructed to treat runoff from Lowell Ave and Horne St and Crescent Ave. Both bioswales were installed with automated instantaneous samplers to monitor performance. The City also provided an additional \$4,000 in sample analysis to monitor performance of the BMP's. Though the Berry Brook watershed restoration is not part of the City's MS4 commitments the work is an important project in assessing how well BMP's can restore water quality in a highly developed residential watershed which was more than 30% impervious prior. In 2013 a bioretention system was designed and installed on private property within an existing drainage easement off Horne St with the full support of the property owner. The system treats runoff from 4.2 acres of which 1.6 acres or 39% is impervious. Two additional bio retention systems are designed for installation in 2014, located at Roosevelt Ave and Chesley St.. The BMP's will treat 3.0 and 5.4 acre drainage areas which are 33% and 23% impervious respectively. A video was completed on the Berry Brook project in 2013. The video was produced by the City of Dover's media coordinator and explains the water quality issues associated with stormwater as well as how the Berry Brook watershed restoration work utilizing LID will improve conditions in the brook. The video also explains how individuals can make a difference by altering their behavior such as picking up pet waste, proper fertilizer application, and use of rain barrels to harvest rain water or even construct a rain garden. In 2016, two new innovative stormwater management systems were installed in the watershed. The BMP's were called filtering catchbasins, they have a regular grate with a first empty tank that allows for settlement, than a second area that filters the runoff prior to discharging into the closed drainage system.

- City Staff participated in several tours of the Berry Brook Watershed, showcasing the stormwater management improvements in the watershed and discussing costs and labor associated with maintenance.
- Dover's Superintendent of Public Works and Utilities presented on Dover's ongoing IDDE efforts at the Seacoast Stormwater Coalition meeting.

- In August 2016, two staff members attended and presented at the New England Water Environment Association meeting in Maine.
- The superintendent of Public Works and Utilities, attended and presented at several regional and national concurrences, along with Professor Houle from the UNH Stormwater Center, to educate other industry professionals about the lessons learned and new approaches to stormwater management that resulted from the years of work done in the Berry Brook watershed.
- June 2016, the City of Dover hosted a Green SnowPro training aimed at teaching salt reduction techniques during winter storm maintenance operations. Several staff were certified and implemented the techniques throughout the winter season.
- The Community Services Department had a booth at the Dover Apple Harvest Day event in October of 2017. The booth showcased water conservation and residential strategies for storm water mitigation. Approximately 50,000 people attended Apple Harvest Day, many people stopped to visit the booth and over 160 people entered to win a Rain Barrel.
- City Staff actively participated in the Great Bay Pollution Tracking and Accounting Pilot Project (PTAPP).
- The Superintendent of Public Works and Utilities was given the EPA Region 1 Environmental Merit Award for excellence and innovation in stormwater management practices. The City Councilors were given a presentation outlining some of the work that had been done and an explanation on the importance of stormwater treatment and mitigation. The presentation was available to the public on the local access television channel.

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
A1	Establish Pollution Hotline	Bill Boulanger	Trained administrative personnel who receive calls	Received no phone complaints	Determine if this particular hotline is an effective resource for the Public. Potentially replace the program with something tied into the VueWorks work order/service call soft where which may be available to the public within the next year.
Revised		Community Services			
A2	Community Cleanup	Doug Steele	Held 13th annual clean-up	Dover Main Street clean up day	Hold 14th Dover Pride clean-up day
Revised		Community Services			
A3	Educational Video	Seacoast NH Stormwater Coalition	Show on local access	Showed a video on Berry Brook efforts to reduce impervious through implementation of LID retrofits of City drainage system, and home owners rain gardens and rain barrels as educational resource on local access TV.	Continue to show video on local access TV.
Revised			Converted to DVD		
A4	Publish Stormwater information	Community Services	Published articles and public response	Staff presented Dover’s Municipal Low Impact Development experiences at the UNH Civil Engineering Conference, the NEWEA Conference, and at other regional and national conferences. Continued to facilitate educational tours of the Berry Brook Watershed.	Continue to public outreach and facilitate educational tours of the Berry Brook Watershed.
Revised					
A5	Pet Waste and Storm Water	Dean Peschel NHDES	Lower bacteria levels in unnamed brook	Continued to educate the public about pet waste stormwater impacts and proper behavior.	Continue to educate the public about pet waste storm water impacts and proper behavior.
Revised					
A6	Assist School in SW education	Community Services and volunteers	Make presentations in classroom	The City of Dover hosted the New Hampshire Water Works Association’s annual event for local 4 th graders. Students had the opportunity to learn about the water cycle and the need to protect our resources.	Continue to work with schools in the area. Attend the Earth Day celebration at the Garrison Elementary School to talk about water resources and protection.
Revised					

A7	Educational Kiosk	Community Services	Create and Install an educational kiosk outlining the environmental components of the Silver Street Reconstruction Project.	Created and installed a kiosk. Silver Street Reconstruction Project included the following environmental improvements: <ul style="list-style-type: none"> - Rain Garden - roadside filters - appropriate & well sited urban trees for added shade and other benefits - improved signalization to reduce car emissions and improved air quality - enhanced walkability = reduced vehicular traffic and healthier community - dark-sky compliant street lighting 	Continue to promote kiosk.
A 8	Flood Elevation Art Instillation	Community Services	Assist members of the Global Warming Steering Committee in creating an art instillation in the vicinity of the Henry Law Park, that showcases existing flood elevations and projected future flood elevations. Project will also include educational pieces pertaining to stormwater	Staff assisted committee, however, the instillation was not completed after loss of interest.	Continue to assist other committees such as the Waterfront Development Committee and Dover Main Street in their efforts to promote good and environmentally sound opportunities for education.
A9	Snow Removal/ Salt Usage	Community Services	Host a Green SnoPro training event in Dover	Hosted a green snowpro training class. New stormwater regulations include requirement for green snopro certified contractors on private sites.	Continue efforts to host events such as the Green SnoPro class.

1a. Additions

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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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
B1	Storm Stencil	Community Services	Number completed 3 events	No stenciling in 2016	
Revised					
B2	Sample outfall and other structures	Community Services	Sampled	No Sampling in 2016	Implement focused sampling efforts based on new MS4 requirements.
Revised					
B3	Update Ordinances	Planning Steve Bird	Ordinance facilitate compliance of NPDES regulations	Dover incorporated the recommendations of the model regulations into the City's development standards.	Continue to require developments in the city to conform to the regulations.
Revised					
B4	City of Dover	Community Services/ School	Meet cooperatively to establish city fertilization program consistent with NEIWPIC recommendations	Focus group process to develop fertilization guidelines and implement for all City maintained areas was completed in March 2014. Developed program to support growth, and minimize adverse impact to residents and the environment.	Continue implementation of program
Revised					
B5	Pet Waste Pilot Project	Community Services	Lower bacteria in surface water	Same as A5	Same as A5
Revised					
B6	Berry Brook Watershed Assessment and Management Plan	City of Dover UNH NHDES	Improved habitat and water quality	Completed additional BMP's to improve water quality in 2016 and held several tours to showcase the constructed BMP's, report on the progress, and celebrate the success of the Berry Brook restoration.	Continue to implement additional stormwater structures reducing connected impervious cover in the Berry Brook watershed.
Revised					
B7	Initiate committee to formulate Stormwater Management Plan	Community Services	Public supported Stormwater Management Plan	Continue to inform the Dover Utilities Committee of the ongoing STormwater Management efforts in the city.	Set up a more formal review process with the Dover Utilities Commission to solicit involvement and input into the STormwater Management Program,
B8	Add LID to zoning regulations	Planning	Better storm water management at development sites	Adopted recommendations from the SWA model regulations that are missing from the current Dover regulations	Require developments to meet the standards

B9	Initiate Climate Adaptation Plan	Planning	Plan and implement strategies to address climate change	Created a Climate Adaptation Steering Committee tasked with developing a new Chapter in the City's Master Plan.	Engage Steering Committee and the Regional Planning Commission. Finalize chapter and incorporate into the City's master plan.
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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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
C1	Storm water System Mapping	Community Services	Have completed map of system and keep maintained	Continue collection of infrastructure condition for storm drain system. Update system map as system grows and is repaired. Student intern verified and updated pipe size, material and condition.	Continue collection of infrastructure condition for storm drain system. Update system map as system grows and is repaired.
Revised					
C2	Establish Illicit Discharge Program	Community Services	Establish Program and Implement	Found no illicit discharges in 2016. Placed drainage connections for sump pumps and educated residence on allowable uses for sump pumps.	Continue to look for illicit connections and remediate.
Revised					
C3	Catch Basin Stenciling	Community Services	Same as B1	Same as B1	Same as B1
Revised					
C4	Update City Ordinance	Community Services and Planning	Same as B3		Same as B3 and B8
Revised					
C5	Secure Funding	Community Services	Find funding for programs	Received funding to continue program and carry out Berry Brook restoration	
Revised					
Revised					
C6	Participation in Seacoast Storm Water Coalition – development of NH IDDE Manual	Community Services	Distribution of published manual	Continued participation in Seacoast Stormwater Coalition. Presented on Dover’s IDDE efforts.	Continue participation in Seacoast Stormwater Coalition
C7	Include Berry Brook watershed as priority area in IDDE plan	Community Services	Remove bacterial sources	Done	No further action

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
D1	Review and Update Ordinances	Community Services and Planning	Have legal authority to enforce Phase II	Incorporate recommendations from SWA proposed storm water regulations that improve Dover’s regulations in April/May of 2016	Continue to ensure development is occurring in a manner that is consistent with the regulations.
Revised					
D2	Develop Inspection Program	Community Services and Planning	Site inspections to ensure compliance of Phase II	Engineering inspector inspects all sites for erosion control daily, weekly. A second inspector has been brought on to assist in covering all projects. All SWPPP reports are submitted to the inspector for review.	Continue inspection program.
Revised					
D3	Direct Contractors to Educations Materials	Community Services	Better compliance of BMP’s	Engineering provides to developers and site contractors at pre-construction conference.	Continue to educate community.
Revised					
D4	Provide City Staff Training	Community Services	Have educated workforce	Continued sending staff to educational opportunities regarding storm water. Green SnowPro training was attended by several DPW staff members.	Continue sending staff to educational opportunities regarding storm water.
Revised		UNH SC			

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
E1	Review and Update Ordinances	Community Services and Planning	Have City Ordinances that comply with Phase II requirements	Done	Same as B3 and B8
Revised					
E2	Develop and Implement O & M Plans for Private Sites	Community Services and Planning	Design and implement program which tracks maintenance	All approved site plans required to submit O & M plans to City and report annually to the City.	Continue to require O & M plans at new sites and track compliance. Require that projects record at the Registry of Deeds, a document outlining the ongoing O&M and reporting obligations.
Revised					
E3	Implement Inspection Program	Community Services	Insure BMP are constructed to plan	The Engineering Technician inspects all sites for proper installation of BMP prior to issuance of Certificate of Occupancy	Continue to inspect sites.
Revised					
E4	Review and Update BMP List	Community Services	Maintain BMP list	Challenge design engineers to prepare effective storm water system designs using appropriate BMP's utilize LID where ever possible.	Continue to review and update LID BMP practices.
Revised					
Revised					

5a. Additions

E5	Develop Pollutant reduction tracking	Community Services and Planning Dept. Inspection Services	Measure pollutant reduction achieved through implementation of BMPs	Participate in PTAPP group to develop tracking system for coastal NH watershed communities and begin implementation of tracking processes and system.	Continue to participate in PTAPP and volunteer use of VueWorks capabilities where appropriate.

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 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
F1	Create Storm Drain Inspection	Community Services	Have a record of system conditions	Continued to have staff inspect structure condition during cleaning. Set up the cb inspections into the existing work order system (VueWorks)	Have inspection forms digitally filed with tablets in the field.
Revised					
F2	Implement Inspection Program	Community Services	Collect data useful for prioritization of maintenance	Continued inspections while cleaning catch basins 1442 basins cleaned and inspected in 2016	Continue inspections while cleaning catch basins
Revised					
F3	Create Street Sweeping Plan	Community Services	Cleaner storm system	Continued street sweeping program.	Continue street sweeping program.
Revised					
F4	Implement Catch Basin Cleaning Program	Community Services	Clean every catch basin once every 4 years	Contracted catch basin cleaning. Completed cleaning of 1442 basins.	Proposed FY18 budget includes funding
Revised					
F5	Establishment of Stormwater Utility	Community Services	Reliable funding source for stormwater system	Continue to monitor the public reaction to increasing Stormwater budgets as MS4 requirements come online with anticipated permit.	None planned
Revised					
Revised					
F6	Explore use of salt brine	Community Services	Reduce amount of salt and sand used	Have established conditions in which salt brine is effective	Continue use of salt brine in appropriate winter conditions
F7	Provide DPW staff training for Pollution Prevention/good house keeping	Seacoast Storm Water Coalition	Improve staff understanding and performance of pollution prevention	Provided DPW staff training installing LID stormwater treatment during construction of BMP's at Berry Brook	Staff install and learn about BMP's throughout the city

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	(\$)	\$900,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	60%
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Yes
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation Dover, Madbury, Lee, and Rollinsford	(%)	304
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	Yes

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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	(%)	100
Estimated or actual number of outfalls	(#)	502
System-Wide mapping complete	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified	(#)	0
Illicit connections removed	(#) (est. gpd)	0
% of population on sewer	(%)	75
% of population on septic systems	(%)	25

Construction

Number of construction starts (>1-acre)	(#)	±16
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100.00%
Site inspections completed	(# or %)	100 %
Tickets/Stop work orders issued/Building Permits Withheld/Occupancy Permits Held	(# or %)	
Fines collected	(# and \$)	N/A
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100.00%
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)	.5
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	.5
Total number of structures cleaned	(#)	1442
Storm drain cleaned	(LF or mi.)	?
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	(\$)	
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	Once/Spring

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

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

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	Yes
Manual control spreaders used	(y/n)	No
Automatic or Zero-velocity spreaders used	(y/n)	Yes
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	