City of Rochester, New Hampshire

PUBLIC WORKS DEPARTMENT
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MAY 5 2009

April 30, 2009

Glenda Velez
US EPA – CIP
One Congress Street – Suite 1100
Boston, MA 02114

RE: NPDES Stormwater Annual Report – Rochester, New Hampshire – EPA ID No. NHRO41028

Dear Ms. Velez:

Enclosed, please find the annual stormwater report for the City of Rochester, New Hampshire. We trust that this information provided meets the reporting requirements of the general permit.

If you need additional information, please call me at (603) 332-4096 or via e-mail at tom.willis@rochesternh.net

Sincerely,
THE CITY OF ROCHESTER, NEW HAMPSHIRE

Thomas H. Willis, Jr., PE
City Engineer/Technical Services Manager

Encl: Stormwater Annual Report No. 6 – April 2008 to March 2009

CC: John Scruton, City Manager
Melodie Esterberg, PE, Commissioner of Public Works
File

Municipality/Organization: **Rochester, New Hampshire**

EPA NPDES Permit Number:

NHDES Permit Number: NHR041028

Annual Report Number & Reporting Period: **April 1, 2008 – March 31, 2009 (report no. 6)**

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2009)

Part I. General Information

Contact Person: Thomas H. Willis, Jr., PE Title: City Engineer

Telephone #: (603) 332-4096 Email: tom.willis@rochesternh.net

Mailing Address: 45 Old Dover Road, Rochester, NH 03867

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 Scruton

Printed Name: John Scruton

Title: City Manager

Date: 4/30/09

Part II. Self-Assessment

The City of Rochester has continued to refine its implementation of the final elements of the stormwater m that were completed at or near the time the 2003-2008 general permit expired. These included the final ad citywide stormwater management ordinance and its implementation, the construction of a suitable salt sto Department of Public Works, refinement of the stormwater management webpage on the City of Rochester installation of another stormwater outfall treatment unit on the banks of the Cocheco River.

The Rochester City Council Adopted the Stormwater Management Ordinance on May 6, 2008. It calls for stormwater runoff on new developments and during the construction of those new developments. The ord control not only peak rates of runoff but limit the increases in stormwater volume that is generated by new encouraging the use of infiltration and low impact development strategies to limit increase in stormwater v generated. With the new ordinance, the city has instituted a localized stormwater management permit syst activities whenever 5,000 square feet or more of soil is disturbed. This, in effect, allows the city to provide disturbances whenever a new home is being constructed.

There are three levels of permit requirements: one level for site disturbances of from between 5,000 and 2 where there is a simplified permit review process by the Department of Public Works (DPW) in place, 20,0 feet where a local stormwater management plan is required to be submitted and reviewed by DPW, and 4(more in which City receives notification of the implementation of the Federal Notice of Intent program inc stormwater pollution prevention plan (SWPPP). Since the implementation of the permit program in Sum DPW issued 38 local stormwater permits for construction activities in the city. Other elements of the ordi design standards, guidelines, construction and inspection guidelines, post construction operation guideline illicit discharges and connections.

During the fall 2008, the City constructed a 5,040 square-foot salt storage shed capable of storing over 250 cost of over $325,000. This replaced the former salt storage shed, which was undersized and in dilapidate guarantees the city is able to keep <u>all</u> of its salt storage under cover throughout the year.

Also during the fall of 2008, the city installed a vortechnics stormwater treatment unit at a key outfall in th the city at a cost of over $150,000. The outfall, located adjacent to River Street, is the outfall for stormwat along the North Main Street area of the City and conveyed to the Cocheco River. The North Main Street a developed area consisting of mostly residential and small commercial trade development.

In terms of public participation and educational efforts, the city's website has an extended webpage designed to inform residents of stormwater management. The city has continued to sponsor events such as the Earth Day neighborhood cleanup, held every April, and the household hazardous waste collection day set up every May.

Additionally, in 2008 the City worked with Waste Management of New Hampshire to reorganize its refuse collection efforts in an attempt to encourage recycling and to crack down on the piles of open refuse that had been put on the street side in all types of weather during "trash day". In May 2008, all households were provided with a covered 64-gallon toter and recycling bins and informed residents that all refuse had to be contained in the covered toter and recyclables had to be placed in a recycling bin in order to be picked up at the curb. All oversized items could only be put at the curbside for collection once per month or transported to a centralized residential drop off transfer station by the owner. This effort has resulted less exposed refuse open to contact with rainwater during collection efforts on rainy days as well as an elimination of unsightly piles of trash at the curb.

An independent third party consulting engineer, who reports their findings back to the planning and engineering staff and ultimately to the planning board, continues to review all significant development plans in a comprehensive fashion. This third-party engineer has been required by the city to consider stormwater management as part of the review criteria.

City officials have continued their participation in regional stormwater management organizations, namely the Seacoast Stormwater Coalition as well as in stakeholder meetings for the development of the Piscataqua River Estuaries Program (PREP), formerly the New Hampshire Estuaries Project. During this interim period since the expiration of first general permit and subsequent reissuance of the next general permit the City has worked to continue the momentum that was established to solidify practices and processes that were implemented during the final year of the stormwater management plan. City staff has also reviewed the draft permit that was issued on December 23, 2008, worked with common stakeholders in the region to issue comments during the open comment period. In the crafting of the city budget for FY 2010, which is set to implemented beginning on July 1, 2009, staff has attempted to consider some of the requirements that may be adopted when the new permit is issued so that we can begin crafting a new Stormwater Management Plan that incorporates many of the goals contained in the draft permit.

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new general permit is issued).
01-01	Prepare Stormwater Video	Public Works /Commissioner	Cable Access, school and library showings	The Stormwater video continues to be a valuable tool for informing the public on the importance of stormwater stewardship and management. The video continues to be shown occasionally on the city's government cable television channel.	This program has matured. Will continue to use this as an educational resource. No change.
Revised					
01-02	Support Annual Hazardous Waste Day	Public Works/ Office Manager	Coordinate & fund w/ Strafford Planning Commission; publicity	Community held household hazardous waste collection in Rochester on May 3, 2008. Managed and coordinated regional collection with 8 surrounding communities. Collected significant quantities of hazardous waste from 256 households.	City is continuing to manage, publicize, and finance this regional effort annually. Another Household Hazardous Waste Collection is scheduled for May 2, 2009. Currently, we are planning only a spring household hazardous waste day.
Revised					
01-03	Produce a Stormwater Brochure	Public Works/ City Engineer	Have available for public access locations in city	The city contracted with a consultant to prepare brochures and promotional material to inform the public on various elements of stormwater management. These continued to be placed at various city buildings for the public to take at their convenience. City Clerk's office also produced brochures informing the public about being responsible with pet waste. We estimate that over 200 brochures have been picked up by interested citizens.	All brochures will continue to be made available as long as the supply lasts and they remain relevant. Additional brochures will be developed as pertinent topics surface.
Revised					
	Localized Website	Cocheco Water-shed Coalition; Public Works	Tie in with City Webpage	The city contracted with a consultant to develop stormwater specific web pages. These have been put on the City's website, which is www.rochesternh.net	The city will monitor the effectiveness of the website by soliciting feedback from stakeholders and the public. Adjustments have been made as necessary.
Revised					

1a. Additions

01-05	School Involvement	Various Teachers/ Public Works	Promote Stormwater as a topic in the classroom	School involvement dropped off this year from previous years primarily due to workloads and focus on primary responsibilities. Stormwater management is a collateral duty for many of the DPW workers and others in the city.	Stormwater presentations will continue as opportunities arise, or when requested by the school department.
01-06	Stormwater related displays in city government buildings	DPW / Chief Water Plant Operator/other departments	Casually inform the public, while in a captive setting	The city clerks office has made an effort to promote the importance of "picking up after your dog" during the past year through the use of brochures and public information displays at key city buildings during it annual dog licensing drive.	These will continue in use throughout the year.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any).	Planned Activities – (until a new general permit is issued).
02-01	Promote Riverbank Cleanups	Conservation Commission/ Cocheco River Watershed Coal.	Periodic Cleanup Days	Watershed Coalition continued with canoe trips down Cocheco River to draw attention to the river quality. RAYS conducted organized riverbank clean-ups on 4/19/08 with 150 participants and a Hanson Pines (borders Cocheco River) on 4/19/2009 with 175 participants. Groups went to clean up along riverbanks downtown and elsewhere.	More of the same will continue on at least a semi-annual basis between the RAYS Dept, and Cocheco Watershed Coalition.
Revised		Dept of Recreation Arena and Youth Services (RAYS).			
02-02	Watershed Monitoring	Conservation Commission and Cocheco Watershed Coalition	Periodic Reviews of Watershed	Cocheco Watershed Coalition has been active in monitoring the Cocheco River and its tributaries. These efforts continued during this reporting period. City of Rochester supported these efforts by conducting the laboratory analyses of the water samples collected from the Cocheco River by this organization. The City also participated in the Cocheco Watershed Restoration Plan directed by the Cocheco Watershed Coalition.	Current efforts will continue. Development of data to find locations of emphasis for monitoring underway. Much data collected and now under evaluation. The City will continue to work with the Coalition to identify and improve areas where the quality of the river is of concern.
Revised					
02-03	Greater Involvement of Dept of Recreation Arena and Youth Services (RAYS)	RAYS Neighborhood Coordinator	Greater awareness and participation among city's neighborhood groups.	RAYS has been spearheading neighborhood cleanup days in conjunction with Earth Day (April 19, 2008 and April 18, 2009). Continued to be a conduit for outreach to local neighborhoods. Stormwater awareness is promoted at several events promoted by RAYS throughout the year.	Continue to promote stormwater as a cause.
Revised					

2a. Additions

02-04	Downtown River Walk	Planning Dept – Riverwalk Committee	Focus attention on Cocheco River in Downtown area - Downtown Enhancement	Riverwalk Committee has refined a plan for a downtown pocket park along the banks of the Cocheco River on River Street. A contractor has been selected to install it. As part of this project, the city installed a Vortechnics stormwater treatment unit and upgraded a stormwater outfall at a location under the proposed park in Fall 2008. Park will be completed after the North Main Street Bridge is rehabilitated in summer and fall 2009.	Downtown improvement and associated tie-in to nearby Cocheco River will continue to evolve with assistance and involvement by key city departments. Continue to monitor private, re-development efforts currently underway elsewhere along the river, which could serve as another element to the development of the riverwalk vision.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new general permit is issued).
03-01	Identify and map outfalls and receiving waters	Engineering Division	Map all outfalls in GIS by Spring 08.	The City hired an engineering consultant to build on what was done previously. The consultant made a concerted effort to locate and map all the outfalls in the City. A total 266 outfalls were located and mapped. This is in addition to the 172 outfalls that were mapped in a previous effort.	May collect additional samples from outfalls for analysis in house (at WWTP) as resources allow.
Revised					
03-02	Screen outfalls for Illicit Connections	Public Works	Screen all outfalls by Spring '05.	Fitting this effort in with other responsibilities of limited utility staffing.	Continue to use existing resources to locate and eliminate illicit connections from the stormwater conveyance system.
Revised			Further investigate and located the source of those identified during the 2004 screening effort.		
03-03	Review and Development Stormwater Ordinance	Public Works/City Council	Adoption of Ordinance by Fall of 2006	City Council adopted stormwater ordinance on May 6, 2008. Since then all departments have been working to implement the ordinance, spearheaded by DPW with assistance from Code Enforcement and Planning Depts. Have created and implemented a stormwater permit system for new development. New stormwater planning standards have also been implemented with all new project proposals.	Continue to implement the ordinance
Revised			Presentation of the draft ordinance to the City Council by Spring 2008 – following draft by consultant.		

03-04	Illicit Connection Elimination Plan	Public Works Documentation	Plan Development by Summer 2006, assuming meaningful data is obtained during 03-02 effort	Was an active participant in the development of the Guidelines and Standard Operating Procedures for Illicit Discharge Detection and Elimination and Pollution Prevention/Good Housekeeping Plan for Stormwater Phase II Communities in New Hampshire as developed by the Seacoast Stormwater Coalition. This City has adopted this as its own blue print for identifying and detecting and eliminating illicit connections.	Will continue to implement this plan within the framework of existing staffing.
Revised			Plan Development by 2008		

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new general permit is issued).
04-01	Review Stormwater features during land development process	Planning/chief planner and Public Works/ city engineer	Development of Site Review Standards	Technical staff continues to meet bi-weekly to review and discuss all new development proposals before going to planning board. Each proposal is scrutinized for stormwater impacts. City mandates a 3rd party engineer; reporting to City Engineer, review all larger development projects. This ensures that time is available and devoted to a comprehensive design review including stormwater impacts.	Continue process as before. New stormwater ordinance has initiated a localized permitting program for ensuring stormwater management is emphasized during the planning and construction of new development.
Revised					
04-02	Revise Subdivision and Site Plan Regulations	Planning/chief planner	Adoption of Site Plan Regulations	During the winter 2007-2008, the planning department drafted and the planning board approved on March 24, 2008, updates to the site planning and subdivision regulations. Those elements pertaining to stormwater management include: stipulating the storm frequency for drainage analysis for the 2, 10, and 25 year storms and to require the use of computerized modeling in performing the analysis. Regarding the zoning ordinance amendments contained in previous annual reports, a committee of the City Council is still considering the draft. Time frame for adoption remains uncertain.	A more comprehensive approach to stormwater management has been adopted and is being implemented through the Stormwater Ordinance.
Revised					

04-03	Construction Monitoring of Site Development	Public Works/ Inspection Engineer	Visit each site; engage in corrective action	Engineering personnel continue to visit each site plan and subdivision at regular intervals. Stormwater management, erosion control, and adherence to construction plans and city standards are emphasized. Continue to monitor development of subdivisions with streets that will eventually be owned by the City as well as significant site developments with an emphasis on maintaining appropriate erosion controls. Inspections are routinely done and reports are prepared and forwarded to the developer. Conservation Commission continues to take an active role at reviewing developments and investigating complaints. The pace of private development has slowed significantly in the past 12 months with the downturn in the economy. Developers of new projects approved in the last year are required to pay city for inspection efforts, this gives the city the flexibility to hire outside consultants to assist with inspections in the event activity exceeds the ability city staff to adequately monitor the pace of development. All inspections have remained in house during the past year due to downturn in development.	Continue with current practices as resources permit. Continue to work with planning department and conservation commission to ensure development projects get scrutiny.
Revised					
04-04	Public Information / Pamphlet for Site Developers	Planning/ Conservation Commission	Pamphlet for site developers	Continued the practices devised in previous years. Holding preconstruction meetings for all significant projects which are attended by representatives of the owner, contractor, DPW, Planning, Econ. Development, and Code Enforcement departments. Stormwater management is always a topic on the agenda.	Continue this practice.

Revised			Significant projects are required to have a preconstruction meeting w/ city staff to outline requirements		

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 – (until a new general permit is issued).
05-01	Establish Drainage Maintenance Agreement Program	Planning/Public Works	Adopt as part of planning process.	City has established a program as part of the planning process, which requires owners of site plans with stormwater conveyance and detention systems to maintain these systems so they work as designed. Failure to maintain gives city the right to access the property to maintain them and recover the costs from the owner. Continued this practice	Continue with the drainage maintenance agreement process.
Revised					
05-02	Revise Regulations for Stormwater Management	Planning/Public Works	Adoption of Regulations	Hired CLD Engineers to draft a stormwater ordinance for the City. Ordinance was adopted on May 6, 2008. A stormwater management permit system was implemented in the summer 2008 in response to the adoption of the ordinance (See BMP 03-03)	Work with other departments to continue to implement the ordinance.
Revised					
Revised					
Revised					

5a. Additions

05-03	Introducing Low-Impact Development Practices to Willow Brook Watershed	Cocheco River Watershed Coalition/ City of Rochester DPW/UNH Stormwater Center	Complete Grant objectives	Cocheco River Watershed Coalition and City applied for and received a Section 319 Grant from NHDES to investigate the Willow Brook (tributary to Cocheco River) watershed to identify extent of impervious cover in the watershed and to look for opportunities to reduce areas of impervious cover through the implementation of LID practices. Plan to installed LID BMPs (tree box filters and bioretention area) that will serve as focal point for education and public awareness.	Grant agreement expected to be consummated in Spring 2009 and objectives will be implemented during course of next two years.

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 – (until a new general permit is issued).
06-01	Catch Basin Cleaning Program	Public Works/Highway Lead or Foreman	Establish Priorities	City uses VAC-Con truck to clean catch basins and manholes. Try to get to each of them every two years. Prioritized to the downtown area where they are cleaned more frequently. Staffing levels do not allow a dedicated crew to do this everyday. This practice Continued as staffing allowed. Vac-con went down in late fall 2008. City appropriated over $80K to perform a mid-life total rehabilitation of this vital piece of equipment during winter months. Unit now back in operation and trying to play catch up as current resources allow.	Continue as previously. City is maintaining Vortechnics units on a recurring schedule as well as upstream catch basins. Focus on routine maintenance of Vortechnic units (May and November).
Revised		Public Works/ Highway/Fleet Supervisor			
06-02	Street Sweeping Year Road	Public Works/Highway Lead or Foreman	Install heating System in Garage for winter sweeper storage	City has two street sweepers. All winter sand is removed from the streets and sidewalks beginning in April and is an annual priority until complete. Throughout the spring, summer, and fall months both sweepers sweep and remove debris throughout the city. Downtown areas emphasized. Winter sand cannot be removed in winter because there is no heated place to store sweepers, so they must be winterized to prevent freeze-ups.	Continue the same. In order to have street sweeping capabilities during the winter months, two garage bays will need to have heat installed or new heated garage bays installed. Will continue to use less sand to treat roads during winter snow removal as a long as motorist safety is not compromised. Proposal for new public works building has been delayed to at least 2015 due to economy.
Revised		Public Works/ Highway/Fleet Supervisor			
Revised					

6a. Additions

06-03	Training of DPW Personnel			City participated in a regionwide training program developed by the Seacoast Stormwater Coalition to train city public works workers on Illicit Discharge Detection and Elimination and Pollution Prevention /Good Housekeeping measures.	Will continue to participate in regional training opportunities as the become available.

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
	N/A				
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment – Waste load allocation for the Cocheco River of 4.5 mg/L of nitrogen was proposed by the New Hampshire Department of Environmental Services in March 2009. City is currently evaluating the impact of this proposal. It

has not been adopted as of this point. City plans to include BMP's to meet that requirement as part of the Stormwater Management Plan that will be required for the next general permit.

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	($)	~$475,000 capital –expended for FY '09 only (salt shed, vortechnics unit) Have $110K of remaining funds in a CIP item that will be spent to develop stormwater management plan for the new permit; an additional $10,000 is appropriated for HHW annually which is shared by NHDES and 8 surrounding communities

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	Est. 1,000+
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	Yes – Cocheco
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Yes – 4,000 ft
Household Hazardous Waste Collection Days		

▪ days sponsored	(#)	1
▪ community participation	(%)	~1 percent
▪ material collected	(tons or gal)	18,565 pounds
School curricula implemented	(y/n)	No

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				
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	90
Estimated or actual number of outfalls	(#)	438
System-Wide mapping complete	(%)	90 -- w/in urbanized areas
Mapping method(s)		
▪ Paper/Mylar	(%)	0
▪ CADD	(%)	
▪ GIS	(%)	90
Outfalls inspected/screened	(# or %)	95 percent of those identified

Illicit discharges identified	(#)	0 this year
Illicit connections removed	(#) (est. gpd)	0 this year
% of population on sewer	(%)	Approx 40
% of population on septic systems	(%)	Approx 60

Construction

Number of construction starts (>1-acre)	(#)	8
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100 percent
Site inspections completed	(# or %)	100 percent
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and $)	0
Complaints/concerns received from public	(#)	Less than 20

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	100 percent immediately following construction
Estimated volume of stormwater recharged	(gpy)	Undetermined

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	Less than 1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1-2
Total number of structures cleaned	(#)	Not recorded
Storm drain cleaned	(LF or mi.)	Not recorded
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	Approx 650 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	($)	0 – Landfill Host Community

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	6
Qty. of sand/debris collected by sweeping	(lbs. or tons)	300 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Cost of sweepings disposal	($)	0 – Landfill Host Community
Vacuum street sweepers purchased/leased	(#)	Own 2, 0 this year
Vacuum street sweepers specified in contracts	(y/n)	Sometimes on municipally managed projects in urban areas

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	No Meaningful reduction
▪ Herbicides	(lbs. or %)	No Meaningful reduction
▪ Pesticides	(lbs. or %)	No Meaningful reduction

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	←Varies according to storm Varies according to storm
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 %)	Not Meaningful
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	New 5,040 sq. ft. salt shed completed 11/08