Municipality/Organization:

Town of North Attleborough

EPA NPDES Permit Number:

MAR041142

MADEP Transmittal Number:

W-041030

Annual Report Number

& Reporting Period:

No. 8: May 1, 2011 to April 30, 2012

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Mark Hollowell

Title: Director of Public Works

Telephone #: 508-695-9621 Email: mhollowell@north-attleboro.ma.us

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: Mr. Mark Hollowell

Title: Director of Public Works

Date:

5/08/12

Part II. Self-Assessment

The Town of North Attleborough has completed the required assessment and determined that our municipality is in compliance with the 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 Continuation	Planned Activities – Next Permit Round
1-1 Revised	Stormwater flyer to community residents	Board of Public Works Board of Public Works (BPW), Planning Board (PB), Conservation Commission (CC), ZBA	Distribute to at least 75% of residents.	In Permit Year 4, flyers were placed on display and made available to residents at the Town Hall, Library, Water Department/DPW office. A stormwater survey was distributed to residents and 8 surveys were returned. Stormwater cards were hand delivered to residents in neighborhood with issues of dog waste in catch basins.	BMP Completed. Continue displaying flyers at public places. Incorporate the results of the stormwater survey into the stormwater public education program work towards providing more information about how residents can assist in stormwater quality.
1-2 Revised	Stormwater lesson plan for fifth grade students	Board of Public Works BPW, PB, CC, ZBA	Lesson plan taught at one or more grade 5 classes.	Alternate BMP will be determined. Presentation at "Touch the Trucks" annual event (3 years), including flyers, stickers and stormwater public education video. Over 200 children in attendance each year.	Develop and implement an alternative BMP to address public education for students.
1-3 Revised	Stormwater flyer to community businesses	Board of Public Works	Distribute to a minimum of 50% of businesses with storm water logo displayed by half of the businesses receiving the flyer.	Business flyer shave been distributed to approximately 500 businesses.	BMP Completed.
222.1304		ZBA			

	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
BMP		Dept./Person		Permit Year 9 Continuation	Next Permit Round
ID#		Name			
	Storm water media	Board of Public	Four press releases	The Stormwater Committee began	BMP Completed.
1-4	campaign	Works	generated and issued	providing a stormwater education table	Display stormwater education
			to local media.	for the National Public Works Week	materials (handouts, fact sheets,
Revised		BPW, PB, CC,		events in May 2008 -2011, including	brochures, video, etc.) at a table for
		ZBA		flyers, handouts and a video	the May 2012 event for "National
				presentation. This event was advertised	Public Works Week". Utilize
				to the public. This is an annual event	materials from the SuAsCo media
				where over 800 people (including 500	kit.
				children) are in attendance.	
	Stormwater video	Board of Public	Show a stormwater	A stormwater video was obtained and	BMP Completed.
1-5		Works	video at least one	presented at a Board of Public Works	The stormwater video will be played
			public meeting &	Meeting in 2008, and at 2009 and	at the stormwater education table for
			show stormwater	2010/2011 National Public Works	the May 2012 public event for
			video at least once on	Week events.	"National Public Works Week".
			local cable channel.		Will continue to seek additional
Revised		BPW, PB, CC,			events and the local cable channel to
		ZBA			show the video.

1a. Additions.

	Community	Board of Public	Annual Hazardous	Two Hazardous Waste Collection	BMP Completed.
1-6	participation/Household	Works	waste day (depends on	Events are held annually (typically in	Continue advertising and hold at
	hazardous waste		funding).	September and April). The events are	least one Hazardous Waste
	collection			advertised in the local paper, on the	Collection Event.
Revised		BPW, PB, CC,		website and on the Town cable	
		ZBA		channel.	
	Community yard waste	Board of Public	Volume of yard waste	Over 2,000 cubic yards of yard waste	BMP Completed.
1-7	composting	Works	composted.	was accepted from residents for	Continue accepting, composting and
Revised		BPW, PB, CC,		composting. The composting service	tracking the volume of yard waste.
		ZBA		was advertised in the local paper and	Continue to advertise the program
				on the Town website.	through press releases and local
					cable.

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 Continuation	Planned Activities – Next Permit Round
2-1 Revised	Form a stormwater Committee	Board of Public Works BPW, PB, CC, ZBA	Establish committee and meet quarterly.	Meetings with Public Works/ Con. Comm staff to outline the program needs and address BMP requirements of program	Continue holding Committee meetings and evaluate the progress of the SWMP.
2-2	Community Hotline	Board of Public Works	Hotline established, record of calls and problems remedied.	The Town received approximately 30 calls related to storm water and 21 issues were addressed. Most calls were	Continue logging calls to address stormwater issues.
Revised		BPW, PB, CC, ZBA		related to flooding or drainage system repairs. Calls were tracked using a DPW Work Order Form. Online Problem Form now available (as of 2011)	
2-3	Stormwater traveling display	Board of Public Works	Display circulated for at least 3 months and to at a least 3 public places.	The display was maintained at the Water Treatment Plant and Public Works Administration Building.	BMP Completed. Continue to post the display at various locations.
Revised		BPW, PB, CC, ZBA			
2-4 Revised	Stormwater poster contest for fifth grade students	Board of Public Works	Contest held, entries received, judged & displayed.	This activity was completed in Permit Year 3.	BMP Completed. No further action is planned at this time.
Revised		BPW, PB, CC, ZBA			
2-5	Stormwater photo contest for high school students	Board of Public Works	Contest held, entries received, judged & displayed.	No significant progress has occurred on this task during this permit year.	Develop and implement an alternative BMP to involve students.
Revised		BPW, PB, CC, ZBA			
2-6	Hold a local multi- community stormwater summit special event and advertise	Board of Public Works	Summit held, attendance records, agenda and resulting action items.	No significant progress has occurred on this task during this permit year.	Evaluate resources to conduct a local stormwater event.
Revised		BPW, PB, CC, ZBA			

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 7 Continuation	Next Permit Round
		Name			
2-7	Participate in SuAsCo stormwater super summit & evaluate public awareness of stormwater	Board of Public Works	Participate; distribute stormwater self-test to 75% of town residents, compile and consider test results.	Attended the SuAsCo Stormwater Work Shop on March 26, 2010	BMP Completed. Continue to coordinate with SuAsCo and evaluate resources to conduct a stormwater super summit or other public involvement activity.
Revised		BPW, PB, CC, ZBA			

2a. Addition.

	Stream Cleanup	Board of Public	Amount of	Cleanup activities for the Ten Mile	Continue improvements to the
2-8	Activities Along the Ten	Works	trash/debris removed.	River from Whitings Pond to Falls	stormwater discharges to Falls Pond.
	Mile River			Pond consisted of debris removal and	Review and update the Ten Mile
Revised		BPW, PB, CC,		sediment cleaning at outfalls. An	River cleanup plan and schedule.
		ZBA		advertised Earth Day Event was held	Pursue additional projects and
				on April 21, 2012 which included a	develop an annual maintenance plan.
				River Clean Up. This event will be	Update residents with the progress of
				held annually. Worked with Regional	the project continue annual river
				agency to move forward with long-	cleanup event to maintain the
				term projects for river quality	restored areas with community
				improvements. 10-mile River	participation once the annual
				Committee was formed in 2011 with	maintenance plan is developed.
				Town staff, Board Members and	
				Residents to develop solutions for	
				river.	

3. Illicit Discharge Detection and Elimination

_								
	Illicit discharge bylaw	Planning Board,	Present bylaw to Town	The draft proposed amendments to the	Finalize and adopt the proposed			
3-1		Conservation	Meeting in year 3.	Town's Sewer Use Regulations were	amendments to the Sewer Use			
		Commission,		reviewed by the BPW and Town	Regulations.			
		ZBA, Board of		Counsel. However, the amendments				
		Public Works		have not been finalized and approved.				
Revised								

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 Continuation	Planned Activities – Next Permit Round
3-2	System mapping development	Board of Public Works	Locate all discharges, complete system map & databases, and add soil and land use data to base maps.	The drainage mapping database was updated with ongoing inspection results related to drainage structure maintenance (e.g., catch basin, manhole & pipe conditions). The drainage system in Route 1 (owned by	BMP Completed. Evaluate maintenance requirements (see BMPs 6-1 & 6-2) and update maintenance schedules. Continue updating map as new drainage
Revised				MassHighway) was field verified and the GIS map was updated to better understand the Town's drainage system in this area.	system information becomes available.
3-3	Inspect & sample town drainage system discharges	Board of Public Works	Inspect all discharges, sample and test flows that indicate an illicit discharge may be present.	Routine outfall inspections were completed for maintenance purposes. GPS equipment was obtained, but no specific outfall screening and/or testing for illicit discharges has been	Dry weather outfall inspections and flow sampling will continue as weather permits, until all outfalls have been properly screened. Outfalls will be sampled as needed.
Revised			Train Public Works employees to inspect outfalls.	warranted.	•
3-4	Illegal dumping education	Board of Public Works	# of illegal dumps reported, # of penalties, # of rewards to citizens who reported, # of dumps cleaned.	The Town has coordinated between Public Works, Landfill and Police to track, investigate and remediate illegal dumping. 20 instances of illegal dumping were reported.	Continue logging calls to address illegal dumping and stormwater issues as they arise.
Revised					

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#		Dept./Person		Permit Year 7 Continuation	Next Permit Round
		Name			
	Septic system controls	Board of Health	# and location of	Septic system maintenance was	Evaluate inspection data and septic
3-5			systems, # inspected	mandated in permit year 1. The Board	system locations with respect to
			regularly, # of people	of Health continued to inspect septic	water quality concerns at receiving
			trained to inspect, # of	systems. A base map of septic systems	waters and identify potentially failed
			failed systems.	and data summary (e.g., age, #	systems. Develop and implement a
Revised				pumpouts, Title 5 failures) were	strategy to address failed systems.
				developed as part of the CWMP	Continue septic management
				developed in Town. The Board of	program.
				Public Works has instituted a	
				betterment program for tying septic	
				systems into sewer. BOH Updated	
				Septic System Regs in 2011	

3a. No additions at this time.

4. Construction Site Stormwater Runoff Control

	Soil and erosion control	Planning Board,	Present bylaw to Town	The draft bylaw was previously	Update the Stormwater Regulations
4-1	bylaw	Conservation	Meeting in year 3.	presented to the Board of Selectmen on	as appropriate to accompany the
		Commission,		March 14, 2007 to receive input.	finalized bylaw.
		ZBA, Board of		However, the draft bylaw and	
		Public Works		regulations have not been finalized.	
Revised			Bylaw to Town		
			Meeting in year 5.		
	Construction	Planning Board,	Frequent inspections	The Conservation Commission	Continue tracking & inspecting
4-2	Inspections	Conservation	and # of inadequate	conducted erosion control inspections	construction sites.
		Commission,	sites/plans reported.	that resulted in 1 enforcement action.	
		Zoning Board		A consultant was engaged to do	
		of Appeals,		subdivision inspections for permit	
		Board of Public		compliance.	
		Works			
Revised					

4a. Addition.

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#		Dept./Person		Permit Year 7 Continuation	Next Permit Round
		Name			
	Establish a Procedure	Board of Public	# of issues reported,	The DPW did receive a calls regarding	Continue logging calls to address
4-3	for the Receipt of	Works	record of enforcement	a construction site and the	construction site erosion issues.
	Information Submitted		actions	Conservation Commission conducted a	
	by the Public			site inspections to address construction	
Revised				site erosion issues (refer to BMP 4-2).	
				The information was tracked through	
				email.	

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID#	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5	Planned Activities – Next Permit Round
		Name		(Reliance on non-municipal partners indicated, if any)	
5-1	Bylaw for post construction runoff	Planning Board, Conservation Commission, ZBA, Board of Public Works	Present bylaw to Town Meeting in year 3.	The draft bylaw was previously presented to the Board of Selectmen on March 14, 2007 to receive input. However, the draft bylaw and regulations have not been finalized.	A final meeting and public input hearing will be held with the Bylaw Study Committee to finalize the bylaw. Update the Stormwater Regulations as appropriate to
Revised			Bylaw to Town Meeting in year 4.	The Town continues to review subdivision plans for the most appropriate stormwater BMPs that will be protective of water quality.	accompany the finalized bylaw.
5-2	Inspect all Town maintained structural BMPs. Document problems	Board of Public Works	Inspect all structural BMPs annually, # of problems identified and remedied, changes in water quality.	Town owned/operated BMPs were inspected and findings recorded. Appropriate maintenance schedules were established based on findings and data was recorded for future use in the	Continue inspection program of all Town owned/operated BMPs and update database to prioritize areas of concern. Evaluate maintenance needs and access for BMPs on
Revised				Town's GIS system to prioritize and track drainage system maintenance. DPW evaluated maintenance needs at outfalls to the Ten Mile River and Abott Run and repaired or replaced 10 headwalls.	privately owned land without easements.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 Continuation	Planned Activities – Next Permit Round
5-3	Update Zoning Regulations	Planning Board, Conservation Commission, Zoning Board of Appeals, Board of Public Works	Update zoning bylaws, track effectiveness of changes, # of new stormwater treatment areas expected under new codes, projected # of upgrades of existing stormwater facilities.	Updates to the zoning regulations were not pursued since the proposed stormwater bylaw and regulations have not undergone final review.	The need for updates to the zoning regulations will be discussed at future scheduled meetings.

5a. No additions at this time.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

	Predictive catch basin	Board of Public	Develop program,	50% of catch basins were cleaned	Continue inspection and cleaning
6-1	program	Works	collect data & refine	based on sediment accumulation rates	program and update database.
			program.	from previous years to target areas with	Continue to evaluate cleaning
Revised		Consultant		the most sediment. Sediment volumes	locations and schedules to prioritize
				were tracked by catch basin cleaning	accumulation areas based on quantity
				routes to update accumulation areas	versus location. Utilize the new
				based on quantity versus location and	truck to clean catch basins at an
				the GIS database for the Predictive	appropriate frequency. All basins
				Catch Basin Program was updated with	cleaned on a two year schedule with
				new data. The Town purchased a truck	high accumulation areas being more
				to clean catch basins based on sediment	frequent. All cleanings are recorded.
				accumulation rates and are tracking	
				through worksheets for each location.	
	Street cleaning	Board of Public	Sweep all roads once-	All roads were swept at least once and	Evaluate priority sweeping needs
6-2		Works	years 1 & 2, twice-	sediment volumes were tracked by	based on quantity versus location.
			years 3-5, all parking	street to evaluate quantities generated	Continue road sweeping program and
			lots-years 4-5, # lbs.	per location. The GIS database was	increase sweeping frequencies as
			debris collected.	updated with new data from 2007. The	appropriate and as budget and staff
Revised				Town began to evaluate accumulation	time allows.
				areas based on quantity versus location.	
				The Town utilized the new street	
				sweeper purchased to sweep streets	
				within a shorter time period.	

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 Continuation	Planned Activities – Next Permit Round
6-3 Revised	Investigate Town owned BMPs for retrofit opportunities	Board of Public Works	Inspect 3 structural BMPs per year.	All outfalls/culverts in Town were inspected for maintenance issues. Three (3) Stormceptors were installed on Fisher Street. Improvements to the drainage system to the Abbott Run River have been completed with deep sump catch basins, sediment ponds and armored stream channels being installed into existing drainage system.	Complete improvements to stormwater discharges along the Ten Mile River and Falls Pond. Implement retrofits of the existing storm drain system as opportunities arise. Inspect BMPs for retrofit/improvement opportunities and incorporate information from BMP 5-2. Evaluate potential BMP retrofits with existing maintenance needs and prioritize e the most cost-effective activities for maintaining or enhancing water quality.

6a. Additions

	DPW stormwater	Board of Public	Attendance sheet and	A stormwater pollution prevention and	GPS equipment and outfall
6-4	training for illicit	Works	copy of program.	good housekeeping training program	inspections training for Public Works
	discharges, pollution			was reviewed by the Town. No	employees is scheduled to occur in
	prevention and good			funding was available to complete	2012. Conduct a training session for
	housekeeping			training efforts.	pollution prevention and good
Revised					housekeeping as funding is available.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 Continuation	Planned Activities – Next Permit Round
6-5 Revised	Develop an Inspection and Maintenance Plan for the Drainage System	Board of Public Works	Database Program, Records of inspections and maintenance.	The town inspected all outfalls/culverts using the standard inspection forms previously developed. The GIS database was updated with recent inspection data related to drainage	Continue to maintain the storm drain system based on inspection results. Continue to evaluate and prioritize maintenance needs with emphasis on water quality benefits. Incorporate
				system structures and catch basin and street sweeping data. The Town continued to evaluate drainage system maintenance data based on quantity of materials (i.e., catch basin cleanings and street sweepings) versus location. Based on inspection results and maintenance needs funding was obtained to address stormwater discharges to Falls Pond and Chapter 90 funding was approved for storm drain system repairs at 15 sites. Funding for Brook and Culvert Maintenance was approved in 2009 and 2010.	procedures for addressing water quality improvements for flood control projects.
6-6 Revised	Evaluate Town-wide Municipal Operations for Pollution Prevention Options	Board of Public Works	Evaluation completed in year 4 and recommendations implemented in year 5.	DPW requested funding for a larger salt storage shed and two additional vehicle storage/maintenance bays at the Public Works Facility. These improvements were proposed to minimize potential stormwater impacts at the site due to salt and vehicle storage, as well as assist with facility operation. An indoor vehicle washing bay was designed as part of the Town's Wastewater Treatment Facility upgrade.	Pending approval of funding, construct improvements at the Public Works Facility. Conduct self-evaluation and develop BMPs, as appropriate, to address potential stormwater impacts.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

No TMDLs have been established so far for North Attleborough 303(d) waters.

BMP ID#	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 Continuation	Planned Activities – Next Permit Round
		Name		(Reliance on non-municipal partners indicated, if any)	None a commo Acounta

7a. Additions

7-1	Develop a Water Quality Strategy for 303(d) Waters.	Board of Public Works	Summary of pollution prevention efforts, future needs, and responsible parties. Copy of surface water	No significant progress has occurred on this task during this permit year.	Begin evaluating the status of BMPs and pollution prevention efforts with respect to 303d waters.
7-2	Implement water quality strategy for discharges to 303(d) waters.	Board of Public Works	quality strategic plan. Photographs, logs, and BMP descriptions for completed efforts and water quality improvements.	N/A	To be determined.

7b. WLA Assessment

Currently, there are no Waste Load Allocations (WLAs) for receiving waters in North Attleborough. As required by the general permit, N. Attleborough will give priority to impaired waters for BMP implementation. Years 1-5 served as a building period to implement basic BMPs, generate data and establish a solid stormwater management program. The Town did not begin evaluating the effectiveness of BMPs and stormwater discharges into 303(d) waters due to staff turnover that occurred during Permit Year 5. Some staff positions have been filled and the Stormwater Committee is being reformed. Once the Stormwater Committee is better formed, a staff member will be appointed to begin evaluating data related to existing impaired waters. This task relies on the progress of other SWMP tasks such at outfall screening. However, some tasks have been completed, such as a base map of septic systems and data summary (e.g., age, # pump outs, system maintenance) that was developed as part of the CWMP in Town. The Town anticipates significant progress with these tasks in the beginning of the next round of permitting.

Part IV. Summary of Information Collected and Analyzed

All outfalls and culverts have been field verified and inventoried for maintenance needs. Seven years worth of street sweeping and catch basin cleaning data has been compiled and the Town modified the catch basin cleaning frequency based on sediment accumulation areas. The Town continued to evaluate maintenance priorities based on quantity versus location. Funding was obtained to complete improvements and repairs to outfalls that discharge to Falls Pond, Ten Mile River and the Abbott Run River, as well as 15 other storm drain system repair sites. The drainage system in Route 1 (owned by MassHighway) was field verified and the GIS map was updated to better understand the Town's drainage system in this area.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	(\$)	

Education, Involvement, and Training

Estimated number of residents 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.)
Household Hazardous Waste Collection Days	
days sponsored	(#)
community participation	(%)
material collected	(tons or gal)
School curricula implemented	(y/n)

Legal/Regulatory

	In Place Prior to	Under		
	Phase II	Review	Drafted	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

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

Construction

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

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)
Total number of structures cleaned	(#)
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.)	
Cost of screenings disposal	(\$)
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)
Qty. of sand/debris collected by sweeping	(lbs. or tons)
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)
Cost of sweepings disposal	(\$)
Vacuum street sweepers purchased/leased	(#)
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 %)
Anti-/De-Icing products and ratios	% NaCl
	% CaCl ₂
	% MgCl ₂
	% CMA
	% Kac
	% KCl
	% Sand
Pre-wetting techniques utilized	(y/n)
Manual control spreaders used	(y/n)
Automatic or Zero-velocity spreaders used	(y/n)
Estimated net reduction in typical year salt application	(lbs. or %)
Salt pile(s) covered in storage shed(s)	(y/n)
Storage shed(s) in design or under construction	(y/n)