



COMPREHENSIVE
ENVIRONMENTAL
INCORPORATED
September 1, 2009

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

**Re: NPDES Stormwater General Permit
2008-2009 Annual Report
Town of Southbridge, MA**

Dear Ms. Velez:

On behalf of the Town of Southbridge, MA, please find enclosed the NPDES Phase II Stormwater General Permit 2008-2009 Annual Report. The Annual Report has simultaneously been filed with the Massachusetts Department of Environmental Protection.

If you have any questions or require any additional information, please do not hesitate to call me at (800)725-2550 ext. 303.

Sincerely,

Comprehensive Environmental Inc.

Nick Cristofori
Project Engineer

cc: Massachusetts Department of Environmental Protection, Boston Office
Ken Kalinowski, Director of Public Works, Town of Southbridge

Enclosure – NPDES Phase II Small MS4 General Permit 2008-2009 Annual Report

- Engineering
- Design
- Construction
- Inspection

Responsive
service,
cost-effective
solutions,
technical
excellence

- Water & Wastewater
- Parks & Recreation
- Drainage & Flooding
- Hazardous Waste
- Transportation
- Stormwater & LID
- Watershed Restoration

Municipality/Organization: Town of Southbridge

EPA NPDES Permit Number: MAR041161

MaDEP Transmittal Number: W- 041270

**Annual Report Number
& Reporting Period: No. 6: May 1, 2008-April 30, 2009**

NPDES PII Small MS4 General Permit Annual Report

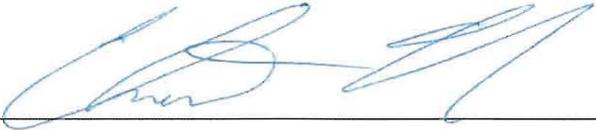
Part I. General Information

Contact Person: Kenneth Kalinowski **Title:** Director of Public Works

Telephone #: (508) 764-5403 **Email:** kkalinowski@southbridgemass.org

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: Christopher Clark

Title: Town Manager

Date: 9-1-09

Municipality/Organization: Town of Southbridge

EPA NPDES Permit Number: MAR041161

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NPDES PII Small MS4 General Permit Annual Report

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Signature:

Printed Name: Christopher Clark

Title: Town Manager

Date:

Part II. Self-Assessment

The Town of Southbridge has had numerous staff changes in recent years, which has impacted progress of the program and the ability to meet proposed BMP schedules, and delayed submittal of the year 5 and year 6 reports. Southbridge has had three Town Managers in less than two years, three new Town Council members each year, a new Department of Public Works (DPW) Director, and turnover in the Health Department. Southbridge recently retained a consultant to assist with its Phase II program. The Town expects to make significant improvements to its stormwater program in the coming years.

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 – Next Permit Term
1A	Public Outreach	DPW	Reach 5 th grade	Presentation made on water quality to selected grade 5 students.	Continue classroom education program. Explore the possibility of incorporating Earth Day into an educational opportunity for students.
Revised	Stormwater Education for Students				
1B	Public Outreach	Water Department	Reach all water accounts (4,000 households)	Mailed annual Water Quality Report to residents which details drinking water quality for the Town.	Continue annual Water Quality Report mailing.
Revised	Annual Water Quality Report Mailing				

1a. Five Additions at this Time.

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 – Next Permit Term
1C Revised	Stormwater Press Release	DPW, Board of Health	Annual stormwater newspaper article	Advertised the four Household Hazardous Waste (HHW) disposal events in the local newspaper. Events are held approximately once every season in June, September, December and March.	Continue to advertise the HHW events in the local newspaper. Publish one stormwater article in the Southbridge Evening News newspaper on Household Hazardous Waste disposal and street sweeping progress. Publish additional articles as time and funding allow.
1D Revised	Distribute Educational Flyers and Advertise Household Hazardous Waste Event	Board of Health	Distribution of flyers	Household Hazardous Waste flyer advertisements were made available at the DPW building, Town Hall, and Jacob Edwards Library. HHW events were advertised on the local cable network.	Mail a stormwater flyer to residents with the Spring quarter water and sewer bill. Include a separate flyer advertising upcoming Household Hazardous Waste events as outlined in BMP 3D. Begin to track the number of flyers taken from each location.
1E Revised	Develop Stormwater Section of Town Website	DPW and Town Website Manager	Measure number of hits annually	Posted street sweeping schedule on the DPW website. Updated schedules are posted each week on the website.	Continue updating street sweeping schedules. The website will be updated and expanded to include informational links to EPA and MADEP stormwater sites. When adopted, post stormwater bylaws online. Explore the use of a hit counter. The website will be expanded as the Phase II program progresses and additional information becomes available.
1F Revised	Broadcast Town Council Meetings to Update the Progress of the Phase II Program	DPW and Channel 12	Broadcast of Town Council meetings	Televised Town Council meetings on the local cable channel (Channel 12). Discussed incorporations stormwater updates into meetings for broadcasting.	Broadcast a stormwater update at the Town Council meeting on the local cable channel.

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 – Next Permit Term
1G	Broadcast Stormwater Videos on Local Cable Network	DPW and Jacob Edwards Library	Cable TV video presentations annually during permit term. Track video rentals annually	Not scheduled to occur until Year 7 / next permit term.	Broadcast the EPA videos “After the Storm” and “Reigning in the Storm” on the local cable channel (Channel 12) as airtime is available. Offer the videos at the Town library for free rental. Advertise the video rentals on the Town website and cable channel. Track video rentals.
Revised					

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 – Next Permit Term
2A ----- Revised	Monitor Streams	Conservation Commission	Monitor 1 stream annually ----- Monitor streams for water quality parameters	The Conservation Commission tests the Quinebaug River at 4 locations: Dudley River Rd., Optical Dr., Mechanic St. and Mill St. Additionally, the Lebanon Brook is tested at Village Dr., Cady Brook at Brookside Rd., and McKinstry Brook at Pleasant St. Waters are tested for dissolved oxygen, turbidity, conductivity, pH and temperature. Color, odor, plants, animals and trash are recorded. Final results are organized into a spreadsheet at the end of the year. Nearby residents also performed informal sediment accumulation monitoring in streams.	Continue stream monitoring program.

2a. Three Additions at this Time.

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 – Next Permit Term
2B	Neighborhood Cleanup	DPW, Building Inspector, Fire, Police, Recycling Coordinator, church groups, neighborhood groups	Weekly neighborhood walkthroughs during fair weather months	Performed weekly neighborhood walkthroughs during Spring through Fall. Department heads targeted a different neighborhood on alternating Friday afternoons to look for violations and opportunities for improvement. DPW inspected for stormwater issues such as full or malfunctioning stormwater structures, evidence of flooding, pet waste, excessive trash, etc. Sent letters to homeowners documenting violations. Walkthroughs were announced in advance and neighborhood participation highly encouraged. Current program had good participation from homeowners.	Continue to perform neighborhood walkthroughs and target potential stormwater impacts. Explore ways to encourage renter participation.
Revised					
2C	Community Meet and Greet	DPW	DPW stormwater booth	Held a community meet and greet on October 16, 2008 where residents could meet department heads and discuss Town topics.	DPW will be present at the annual meet and greet session. DPW will develop a stormwater education booth with information and flyers available.
Revised					
2D	DPW Building Open House	DPW	Held open house	Held an open house at the new DPW facility on May 16, 2008, showcasing the environmentally friendly building and future stormwater drainage system. The event was advertised on Channel 12, in a small article in the local paper, and in flyers posted in town buildings. Approximately 50 people were in attendance.	No further action planned.
Revised					

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 – Next Permit Term
3A Revised	Map Storm Sewer System	DPW	Map outfalls Map stormwater structures	Outfall mapping was ongoing in the GIS system through the use of aerial photography. GPS location of approximately 360 outfalls has been completed to date, or approximately 90% of all outfalls. Mapping of catch basins, manholes, outfalls and culverts continued in the Urbanized Area (UA). Approximately 95% of structures within the UA and 90% of structures outside the UA have been mapped to date.	Continue mapping the remainder of structures. Explore possibility of publishing drainage map on Town website.
3B Revised	Amend Drainage ByLaw	Town Council Town Council, DPW	Modify existing bylaw	A draft bylaw was reviewed by the Southbridge DPW.	Develop and implement a bylaw to prohibit illicit discharges.
3C Revised	Inspect Outfalls Outfall Screening Strategy and Inspections for Illicit Discharges	Board of Health Board of Health, DPW	Identify illicit discharges Screen all outfalls for illicit discharges.	Inspected known problem outfalls for blockages and flooding issues (approximately 20 outfalls). Potential obstructions or other problems were fixed.	Explore options for performing dry weather sampling and outfall screening for illicit discharges within the UA.

3a. Three Additions at this Time.

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 – Next Permit Term
3D Revised	Household Hazardous Waste Collection Events	Board of Health, Recycling Coordinator, Casella Waste Systems	Annual Household Hazardous Waste day	Southbridge hosts 4 Household Hazardous Waste Collection Events throughout the year, approximately once per season in June, September, December and March. Flyers were made available at several Town-owned buildings as discussed in BMP 1D. Volunteers counted and tracked car drop offs. Approximately 80 to 120 cars are typically present at each event.	Continue to host HHW collection events four times a year. Flyers are available as discussed in BMP 1D. Continue to track participation.
3E Revised	Establish Illicit Discharge Hotline	DPW	Number of phone calls to the DPW	Calls and complaints were handled by the DPW. Residents can fill out a complaint form to be recorded by Town administration personnel. Stormwater complaints are forwarded to the DPW which documents all complaints and follow-up actions for each street.	DPW will continue to handle illicit discharge related phone calls. The DPW phone number will continue to be advertised through existing media. Track calls and record actions taken annually.
3F Revised	Establish a Standard Operating Procedure (SOP) for Illicit Discharge Detection and Elimination (IDDE)	DPW	SOP for IDDE	Not scheduled to occur until Year 7 / next permit term.	Adapt existing guidance documents for IDDE and develop a prioritization scheme for outfall inspections in the Town.

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 – Next Permit Term
4A	Control Erosion and Sedimentation	Town Council	Enact new bylaw	A draft bylaw was reviewed by the Southbridge DPW.	Develop and implement a bylaw for construction sites. Explore additional erosion control enforcement measures as needed.
Revised		Town Council, DPW			

4a. Three Additions at this Time.

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 – Next Permit Term
4B	Establish a Procedure for the Receipt of Information Submitted by the Public	DPW	Number of phone calls to the DPW	As discussed in BMP 3E, calls and complaints were handled by the DPW. DPW documented all complaints and follow-up actions.	DPW will continue to handle stormwater related phone calls. The DPW phone number will continue to be advertised through existing media. Track calls and record actions taken annually.
Revised					
4C	Construction Site Runoff Site Plan	Conservation Commission	Erosion control site plan	Town regulations required erosion and sediment control plans for all projects requiring a Notice of Intent (NOI) to be submitted to the Conservation Commission for review prior to construction. The Conservation Commission also reviewed site calculations to check pre- and post-development stormwater runoff for compliance with the Massachusetts Stormwater Management Policy.	Continue to require Conservation Commission review of proposed developments.
Revised					
4D	Conduct Inspections for Erosion Control	DPW	Inspections performed and documented	The DPW performed inspections of all construction sites to ensure erosion controls were working properly. Subdivision sites were inspected approximately once per day. Major problems are documented by DPW.	Continue the current inspection program. Develop a standard form to document erosion and sediment control issues.
Revised					

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
5A	Regulate Post Construction Runoff	Town Council	Amend drainage control bylaw	A draft bylaw was reviewed by the Southbridge DPW.	Develop and implement a bylaw to meet the stormwater management requirements.
Revised		Town Council, DPW			

5a. Two Additions at this Time.

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 – Next Permit Term
5B	Post-Construction Site Inspection	DPW	Inspections performed	Before accepting maintenance responsibility for new construction sites, the DPW performed a full inspection of public drainage systems.	Continue current inspection program. Develop a standard inspection checklist and document all procedures.
Revised					
5C	As-Built Plans	DPW	Plans documenting construction	DPW required that as-built plans be submitted upon completion of construction.	Continue to receive as-built plans for any new development.
Revised					

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6A Revised	Street Sweeping	DPW	Sweep streets annually	All streets swept annually between April and June. Approximately 300-600 tons per month were collected during this time. Collected material was disposed of in the Southbridge landfill. Sweeping schedules were posted on both the website and on the local access channel, Channel 12 and updated each week.	Continue to sweep all streets annually. Develop a tracking form for tracking quantities per area of town. Use volume records to prioritize areas and streets for more frequent cleaning. Advertise street sweeping schedule on local cable network and website as currently doing. Continue to properly dispose of all material.
6B Revised	Catch Basin Cleaning	DPW	Clean critical basins annually	The DPW cleaned all critical basins. Collected material was disposed of in the Southbridge landfill.	Continue annual catch basin cleaning program. Clean critical basins first.

6a. Five Additions at this Time.

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 – Next Permit Term
6C Revised	Storm Drain System Inspection and Maintenance	DPW	Inspect and maintain storm drain system at least annually	Known problem outfalls were inspected as outlined in BMP 3C. Catch basins were inspected for structural deficiencies when cleaned by DPW staff. Approximately 25 to 40 structures are rebuilt per year.	Continue outfall and catch basin inspections. Develop a tracking form to document maintenance of stormwater structures. Track all catch basin and manhole inspections, including structural condition, sediment accumulation, etc. Tracking information will eventually be used to develop a cleaning and maintenance priority schedule.

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 – Next Permit Term
6D Revised	Ensure Covered Storage for Winter Salt	DPW	All salt is covered	All salt for winter storm operations was covered in two salt sheds, one at each DPW building.	Continue to cover salt materials and track winter salting quantities. Consolidate salt into a single shed located at new DPW building.
6E Revised	Conduct Town Employee Stormwater Training	DPW	Develop pollution prevention workshop for municipal employees	Pollution prevention topics were informally discussed as part of routine DPW operations meetings.	Continue training of town employees, particularly the DPW.
6F Revised	Perform Neighborhood Roadway Trash Cleanups	DPW, Town Manager	Amount of trash collected after weekly neighborhood walkthroughs	Southbridge roads were cleaned of trash and debris following the weekly neighborhood cleanups (see BMP 2B). The DPW is currently working with neighborhood groups, the Center of Hope (4-5 volunteers/event), church groups (4-5 volunteers/event), and Department of Corrections (approx. 10 laborers/event).	Continue volunteer neighborhood roadway cleanup. Begin tracking the number of volunteers, organizations, and the amount of trash collected in more detail.
6G Revised	Evaluate Municipal Facilities	DPW, Police, Fire	All municipal facilities evaluated and BMPS implemented within 2 years	DPW Department and Police Department wash procedures were evaluated. Both departments are properly managing vehicle wash water. DPW performed all vehicle washing activities inside the wash bay. The Police Department washes its vehicles at the Red Carpet carwash on East Main Street. Wash water is properly collected and disposed at both locations.	Continue vehicle washing program for the DPW and Police departments. Evaluate all remaining municipal facilities for stormwater pollution prevention.

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
Revised					

7a. Two Additions at this Time.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6	Planned Activities – Next Permit Term
7A	Develop a Water Quality Strategy for 303d Waters	DPW, Conservation Commission	Summary of pollution prevention efforts, future needs, and responsible parties.	The Town continued with implementation of the existing SWMP to address impaired waters.	Review impaired water list and TMDLs as they are developed, along with information collected as part of the Phase II Stormwater Program and upcoming Phase II permit requirements to develop a water quality strategy to address impaired waters in Town.
Revised					
7B	Implement BMP's from Water Quality Strategy	DPW, Conservation Commission, and Consultant	Photographs, logs, and BMP descriptions for completed efforts and water quality improvements.	This will commence upon developing a water quality strategy.	This will commence upon developing a water quality strategy, based on available resources and funds for implementation.
Revised					

7b. WLA Assessment

MADEP released the 2008 303(d) Integrated List of Waters in July of 2008. The updated 303d list outlines three waters in the Town of Southbridge that are classified as Category 5 “Waters Requiring a TMDL”, as outlined in the following table. There are currently no TMDLs completed for waters in Southbridge. Water quality concerns associated with 303d waters are addressed through the implementation of BMPs under the six minimum measures for Phase II. The approach for addressing impaired waters will be updated based on the new permit.

Name	Description	Impairment	
Cady Brook (4129125)	Charlton City WWTP, Charlton to confluence with Quinebaug River, Southbridge.	-Nutrients -Organic enrichment/Low DO	-(Flow alteration*) -Taste, odor and color
Morse Pond (41033)	Southbridge	-Organic enrichment/Low DO	-Noxious aquatic plants
Quinebaug River (4128875)	Confluence with Cady Brook to Southbridge WWTP in Southbridge.	-Organic enrichment/Low DO -(Other habitat alterations*)	-Turbidity -(Objectionable deposits*)
* non pollutant			

Part IV. Summary of Information Collected and Analyzed

The Town of Southbridge is continuing its outfall mapping program. It is estimated that the Town has approximately 360 outfalls, of which approximately 90% have been mapped. The Town has approximately 4,000 catch basins, plus additional manhole structures. Catch basin and manhole mapping continues to date and is largely complete. Approximately 95% of structures within the UA and 90% of structures outside the UA have been mapped to date. Structures are recorded and imported into a GIS base map.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	(\$)	0

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	4,000
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	One
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	N/A
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	4/year
▪ community participation	(%)	80-120 cars
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	Yes

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	(%)	95%*
Estimated or actual number of outfalls	(#)	360
System-Wide mapping complete	(%)	90%
Mapping method(s)		
▪ Paper/Mylar	(%)	-
▪ CADD	(%)	-
▪ GIS	(%)	90%
Outfalls inspected/screened	(# or %)	0
Illicit discharges identified	(#)	0
Illicit connections removed	(#) (est. gpd)	N/A
% of population on sewer	(%)	85%
% of population on septic systems	(%)	15%

Construction

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

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
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.)		Landfill
Cost of screenings disposal	(\$)	0
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)	1
Qty. of sand/debris collected by sweeping	(lbs. or tons)	300-600 tons/month
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Cost of sweepings disposal	(\$)	0
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	0
Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	No reduction
▪ Herbicides	(lbs. or %)	Undetermined reduction
▪ Pesticides	(lbs. or %)	N/A
Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	38% 0 0 0 0 0 62%
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	Y, though not many
Automatic or Zero-velocity spreaders used	(y/n)	Y, mostly auto used
Estimated net reduction in typical year salt application	(lbs. or %)	0%
Salt pile(s) covered in storage shed(s)	(y/n)	100%
Storage shed(s) in design or under construction	(y/n)	Y