

Municipality/Organization: Town of Rockport, Massachusetts

EPA NPDES Permit Number: MAR041217

MassDEP Transmittal Number: W-036169

Annual Report Number & Reporting Period: Year 8
April 1, 2010 – March 31, 2011

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2011)

Part I. General Information

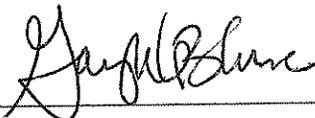
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Certification:

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: Gary Leblanc

Title: Field Coordinator

Date: 4/26/11

Part II. Self-Assessment

The Town of Rockport has completed the required self-assessment and determined that our municipality is in compliance with the permit conditions. The Town has successfully implemented all the measurable goals, or modified measurable goals, noted in Part III of this permit.

The Town has continued the process of replacing older problematic areas in the drainage system. During the past permit year the Town:

- Built various sluice-ways and repaired/replaced ten stormwater catch basins
- Completed various minor repairs and improvements on an as needed basis
- Is developing a regular plan for television inspection of drains

Street sweeping occurred on 100% of the Town's roads during the previous Permit Year.

The Town held their annual Hazardous Waste Collection Day on May 1, 2010. By providing residents a method to properly dispose of hazardous materials, it prevents the materials from potentially being disposed of improperly (i.e. into the drainage system/waterways).

The DPW, Beautification Committee and Conservation Commission hosted their annual community Earth Day Clean Up on April 16 and 23, 2011. Residents, local groups and Town employees are organized to clean up areas throughout the Town to improve the general cleanliness and water quality in these areas. Community groups and private associations also hold clean-up days for local beaches/wetland areas throughout the year.

The Town has an on-going sewer/drain cross connection program. During the past permit year the Town has continued to line sewers (approximately 18,000 linear feet) and located and corrected major cross connections of stormwater to sanitary sewers in the downtown area.

Part III. Summary of Minimum Control Measures

TOWN OF ROCKPORT, MASSACHUSETTS
NPDES Stormwater General Permit

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Progress on Goal(s) - Permit Year Eight
1. PE-1	Public Education and Outreach Stormwater Brochure	Department of Public Works	Y1-Y5: Develop and mail one (1) brochure per year in the Consumer Confidence Report to residents and industries in Rockport.	The Consumer Confidence Report was mailed to all residents and made available at public office and the website: www.town.rockport.ma.us .
PE-2	Provide stormwater information at Town buildings	Department of Public Works Chamber of Commerce	Y1-Y5: Brochures will be available in the Chamber of Commerce and Town Hall	Environmental awareness brochures are available at Town Hall and on the Town website. The brochures describe the importance of stormwater quality in relation to wetland protection in and around Town.
PE-3	Stormwater Editorial	Department of Public Works	Y1-Y5: Print one (1) editorial in the Gloucester Daily Times each year.	The Town submitted an article regarding Spring 2011 Earth Day Cleanup Activities for publication in the Gloucester Daily Times and The Beacon. Another editorial is planned for submittal during the upcoming permit year.
PE-4	Pet Waste	Department of Public Works	Y1-Y5: Post signs at public park lands and supply bags for pet owners to properly dispose of waste. Enforce leash law and exclusion of pets from resource areas during the summer.	Signs have been posted for properly disposing pet waste and leash laws. Plastic pet waste bags are available for public use. Town of Rockport regulations applicable to public beaches and parks are available for viewing at the Town's website. A new pet holding facility has been established to aid the Town in enforcing the leash law. The Town actively enforces these pet regulations, and recently enacted a law prohibiting dogs from public beaches year-round.
1a - Addition	Public Beach Testing	Board of Health	Regularly test public beaches and post results online.	Rockport's public beaches are tested regularly for bacterial contamination. Beach testing results are posted on-line for all public beaches.

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NPDES Stormwater General Permit**

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Progress on Goal(s) - Permit Year Eight
2. Public Involvement and Participation	Involve Public Schools	Middle School Science Department	Y2: Stormwater presentation to Middle School Science Class and environmental sampling field trip to local water body. Conduct necessary planning for biology and environmental science projects incorporating stormwater issues. Y3-Y5: Implement stormwater projects in biology and environmental science classes.	DPW Director is working with representatives from NOAA to coordinate environmental and stormwater presentations at Rockport Schools. DPW and School Department personnel are discussing the implementation of a logo contest for the Town's Stormwater Program.
PP-1	Incorporate Stormwater into Public Meetings	Department of Public Works	Y1: Discuss final Stormwater Management Plan (SWMP) at Spring Town Meeting. Y2-Y5: Present updates to the SWMP. Continue to invite stormwater discussion at one (1) meeting per year.	Rockport has continued to update the public on the Stormwater Management Plan. Stormwater Management Plan and related activities are discussed at Town Meeting and other public meetings throughout the year. A stormwater discussion and presentation was incorporated into the Spring 2011 Commissioner's meeting.
PP-2	Stencil Storm Drains	Department of Public Works	Y1: Identify potential labor sources (scouts, etc.). DPW will facilitate storm drain stenciling effort in the downtown area. (50% complete) Y4: Continue effort in downtown area (100% complete)	All of the catchbasins within the Urbanized Area have been marked. The DPW continued to stencil catch basins during the past permit year. Approximately 75% of the Town's total catch basins have been stenciled to date. The DPW will continue the stenciling program during future years. The Town is coordinating with local Eagle Scouts to perform a stenciling program in the coming months and inspects and touches up stencils as needed.
PP-3	Involve Watershed Protection Committee	Members from several Town Departments	Y1-Y5: Discuss stormwater issues at quarterly meetings.	The Watershed Protection Committee is composed of Rockport residents who are professionals in the fields of hydrology, environmental science, fisheries, earth science, and resource management. Stormwater topics have been part of the discussions at quarterly meetings. DPW personnel, Watershed Protection Committee, Ad Hoc Water Committee all coordinate and attend each other's meetings on a regular basis. Stormwater issues are discussed across the committees. The Watershed Protection Committee and DPW worked together to develop a signage program for the protection of the South Woods (watershed) area.

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PP-5	Poster Contest	Middle School Science Department	Y1: Develop concept and approach educators. Y2: Pilot poster contest as part of science class. Y3: Modify and continue poster contest.	In April 2008, the DPW Director discussed a poster contest with Middle School principal. DPW and School Department personnel are coordinating the implementation of a stormwater logo contest for the upcoming permit year.
2a - Addition	Earth Day Community Clean Up	Department of Public Works, Conservation Commission, Beautification Committee	Hold Voluntary Community Clean Up	The DPW, Beautification Committee and Conservation Commission hosted their annual community Earth Day Clean Up on April 16 and 23, 2011. Residents, local groups and Town employees are organized and proceed to clean up areas throughout the Town to improve the general cleanliness and water quality in these areas. Community groups and private associations also hold clean-up days for local beaches/wetland areas throughout the year. The Town also participates in the nationwide Coast Sweep in September which involves local Conservation Commission and High School students.
2b - Addition	Involve Conservation Commission and Citizens Advisory Committee on Water and Wastewater	Conservation Commission and Citizens Advisory Committee on Water and Wastewater	Involve local environmental groups in stormwater discussions; actively participate in local and regional stormwater activities.	The Conservation Commission helps organize Rockport's Annual Earth Day Clean-up, participates in Rockport's Watershed Protection Committee and Citizens' Advisory Committee on Water and Wastewater, participates in the regional Eight Towns and the Bay Committee, made up of representatives from eight communities dedicated to preserving the quality and integrity of Ipswich Bay, and helps in other efforts to enhance the local environment. The DPW has filed a blanket Notice of Intent with the Conservation Commission for regular operation and maintenance activities related to water, sewer and stormwater facilities and structures.

**TOWN OF ROCKPORT, MASSACHUSETTS
NPDES Stormwater General Permit**

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Progress on Goal(s) - Permit Year Eight
3.	Illicit Discharge Detection and Elimination			
ID-1	Evaluate Eligibility Criteria	Department of Public Works	Y1: Create map of critical habitats and historic properties as described in the General Permit Part 1.B. Y2: Once outfalls are mapped in these areas (see ID-2), consult applicable services and departments (e.g. Fish and Wildlife Service, National Marine Fisheries Service, State Historic Preservation Officer.) Y3 Take appropriate measures if any discharges are not authorized by the General Permit.	An outfall map was created as part of the August 2000 Stormwater Management Plan. Consulted Fish and Wildlife Service, National Marine Fisheries Service, State Historic Preservation to ensure discharges are compliant with the General Permit. Mapping of the entire stormwater system is continuously updated. This new drain was mapped and added into the Town's existing stormwater mapping.
ID-2	Eliminate Illicit Discharges	Department of Public Works	Y1: Develop Illicit Discharge Detection and Elimination Plan as described in General Permit Part II.B.3. Y2-Y5: Implement Plan. The Board of Health monitors 7 beaches in Rockport on a regular basis.	In previous permit years the Town of Rockport received grant assistance to evaluate the condition of catch basins and to install sumps and hoods. DPW monitors outfalls and stormwater structures regularly for signs of illicit discharges. The Board of Health will continue to monitor swimming beaches and work with DPW to identify and correct sources of contamination. The Town held their annual Hazardous Waste Collection Day on May 1, 2010. By providing residents a method to properly dispose of hazardous materials, it prevents the materials from potentially being disposed of improperly (i.e. into the drainage system/waterways).

**TOWN OF ROCKPORT, MASSACHUSETTS
NPDES Stormwater General Permit**

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Progress on Goal(s) - Permit Year Eight
ID-3	Develop and Implement Illicit Discharge Bylaw	Department of Public Works	Y1: Develop draft bylaw prohibiting non-stormwater discharges into the storm sewer and providing for appropriate enforcement procedures. Y2: Present bylaw at Town Meeting and finalize. Y3-Y5: Implement and enforce bylaw.	Rockport Town officials have approved and accepted an Illicit Discharge Detection and Elimination Bylaw. The Bylaw is currently implemented and enforced by the DPW.
ID-4	Educate Citizens	Department of Public Works	Y2: Notify public of Illicit Discharge Detection and Elimination Plan: Y3: Notify public of upcoming Illicit Discharge Bylaw. Y4: Notify public of new bylaw in place.	Brochures were previously mailed to residents and available at the Town Hall inform the public of the dangers of illegal dumping and discharging into storm and sanitary sewer systems. Public notification is conducted through public meeting announcements and publication of minutes of meetings via local access television. The Town website contains stormwater items and the stormwater bylaws. The Town held their annual Hazardous Waste Collection Day on May 1, 2010. By providing residents a method to properly dispose of hazardous materials, it prevents the materials from potentially being disposed of improperly (i.e. into the drainage system/waterways).
4. Construction Site Runoff Control				
CS-1	Develop and Implement Construction Runoff Control Program.	Department of Public Works	Y1: Develop Construction Site Runoff Control Program as described in General Permit Part II.B.4. Y2-Y5: Implement plan.	Rockport Town officials have approved and accepted a Construction Site Runoff Control Bylaw. The Bylaw is currently implemented and enforced by the DPW.
CS-2	Development and Implement Erosion and Sediment Control Bylaw	Department of Public Works	Y1: Research bylaw requirements (General Permit Part II.B.4 and MA DEP Stormwater Management Standard 8) and compare to existing town regulations. Y2: Modify existing regulations and/or develop bylaw. Y3: Present bylaw at Town meeting and finalize. Y4-Y5: Implement bylaw.	Rockport Town officials have approved and accepted a Construction Site Runoff Control Bylaw which addresses erosion and sedimentation control on construction sites of 20,000 square feet or more. The Bylaw is currently implemented and enforced by the DPW.

**TOWN OF ROCKPORT, MASSACHUSETTS
NPDES Stormwater General Permit**

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Progress on Goal(s) - Permit Year Eight
5. PC-1	<p>5. Post Construction Runoff Control</p> <p>Develop, Implement, and Enforce Post-Construction Runoff Control Program</p>	<p>Department of Public Works</p>	<p>Y1: Develop Post-Construction Site Runoff Control Program as described in General Permit Part II.B.5 and MA DEP Stormwater Management Standards 2, 3, 4, and 7. Y2-Y5: Implement plan.</p>	<p>Rockport Town officials have approved and accepted a Stormwater Management Control Bylaw which addresses post construction runoff control. The Bylaw is currently implemented and enforced by the DPW.</p>
PC-2	<p>Develop, Implement, and Enforce Post-Construction Runoff Control Bylaw</p>	<p>Department of Public Works</p>	<p>Y1: Research Post Construction Runoff bylaw requirements (General Permit Part II.B.5 and MA DEP Stormwater Management Standard 2, 3, 4, and 7) as part of the Post-Construction Runoff Control Program. Y2: Modify existing regulations and/or develop bylaw. Y3: Present bylaw at Town meeting and finalize. Y4: Implement bylaw. Y5: Review effectiveness of bylaw and enhance if necessary.</p>	<p>Rockport Town officials have approved and accepted a Stormwater Management Control Bylaw which addresses post construction runoff control. The Bylaw is currently implemented and enforced by the DPW. As of yet, no enhancements are necessary.</p>
6. GH-1	<p>6. Pollution Prevention and Good Housekeeping in Municipal Operations</p> <p>Employee Training Program</p>	<p>Department of Public Works</p>	<p>Y1-Y5: Hold one good housekeeping workshop per year at DPW.</p>	<p>DPW director and other Rockport officials previously attended workshops for upcoming Stormwater Regulations and suggested BMPs. Senior DPW employees attempt to attend one stormwater informational workshop/meeting per year. Town employees are regularly informed of good housekeeping practices and are provided with information obtained from the workshops. The Town has television inspection equipment for use in storm drains. Various personnel have undergone PACP training and training for the use of the inspection equipment. The department attended workshops on new contract services for maintenance and inspection of gas pumps in Fall 2010. A SPCC plan and ERP have been established for the DPW garage.</p>

TOWN OF ROCKPORT, MASSACHUSETTS
NPDES Stormwater General Permit

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Progress on Goal(s) - Permit Year Eight
GH-2	Storm Drain Stenciling	Department of Public Works	Y1: DPW will stencil storm drains in Town (excluding downtown area) while cleaning catch basins. Y3: Re-stencil drains Y5: Re-stencil drains.	All of the catchbasins within the Urbanized Area have been marked. Approximately 75% of the Town's total catch basins have been stenciled to date. The DPW will continue the stenciling program during future years. The Town is coordinating with the Eagle Scouts to assist/accelerate the stenciling program and to increase public awareness and involvement of the program.
GH-3	Beach Clean-up	Department of Public Works	Y1-Y5: DPW will clean seaweed and trash from beaches weekly in the summer.	DPW cleans seaweed and trash from the beaches a minimum of once per week throughout the summer. DPW personnel have been actively inspecting for and removing wastewater treatment discs washed ashore from the Spring 2011 rain events that damaged a NH wastewater treatment facility. The Town also participates in the nationwide Coast Sweep in September which involves local Conservation Commission and High School students.
GH-4	Catch Basin Cleaning	Department of Public Works	Y1-Y5: DPW will clean each catch basin in Town once per year.	An annual catch basin cleaning program is implemented. DPW visually inspects all catchbasins annually. Catch basins with higher levels of sediment in the sumps are noted and the sediment is removed during the annual cleanings. The DPW obtained a permit from the Conservation Commission to remove build up of sediment at Frog Pond and that project is in the final design phase with implementation expected prior to the end of this calendar year. The Town owns a television inspection camera and has cleaned and inspected as many as 500 linear feet of storm drains in the past year. DPW personnel are developing a program for cleaning and televising all storm drains in Town on a regular basis.

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BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Progress on Goal(s) - Permit Year Eight
GH-5	Street Sweeping	Department of Public Works	Y1-Y5: DPW will sweep every street in Town once per year. The downtown area will be swept daily in the summer.	DPW sweeps streets in the downtown area daily in the summer. All of the streets in Town have been swept within the past permit year.
GH-6	Recycling Program	Department of Public Works	Y1-Y5: Continue the Town's recycling and household hazardous waste collection programs.	The transfer station is available to Town residents. Signs are posted at the facility indicating where to leave recycling and more common hazardous waste products. The Transfer Station provides several services to help reduce the amount of waste produced by the community. The DPW holds quarterly drop-off day for major appliances and automotive material. The Town held their annual Hazardous Waste Collection Day on May 1, 2010. Mercury dropoff is available daily. Motor oil dropoff is available at all times at the DPW yard. All of the above measures help prevent hazardous material from being released into catch basins, wetlands and/or the ocean. Transfer station regulations and collection schedules are posted in the Town Hall and at www.town.rockport.ma.us .
GH-7	Operation and Maintenance	Department of Public Works	Y1: Inventory maintenance activities, identify potential pollution runoff. Y3: Identify means of reducing potential pollutant runoff, implement reductions as budget allows. Y5: Reduce pollutant runoff potential.	The DPW has inventoried Rockport's storm sewer infrastructure. Individual identifications have been assigned to system appurtenances. Catch basin inlets and outlets, depth of sumps, system condition, maintenance history, and evidence of potential illicit flows are recorded. The Town of Rockport has previously received grant assistance to evaluate conditions of storm sewer catch basins and to install sumps and hoods. Stormwater structures are replaced/repared as needed based upon visual inspections performed by the DPW. Drainage outlets were repaired/reconstructed in multiple locations in Town and approximately 10 storm drain catchbasins have been repaired or replaced in Spring 2011. DPW has received Capital Improvement funding for improvements to the Town's drainage system and reduce pollutant runoff. The Town has a contract with a service provider for inspection and maintenance of gas pumps.

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NPDES Stormwater General Permit**

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Progress on Goal(s) - Permit Year Eight
GH-8	Reporting	Department of Public Works	Y1: Create a method to record stormwater management activities (e.g. catch basins cleaned, streets swept, yearly training workshops held, bylaws implemented, etc.) Y1-Y5: Begin recording all stormwater management activities. Provide MADEP and EPA with yearly report as described in the General Permit, Part II.E.	The DPW has inventoried Rockport's storm sewer infrastructure. Individual identifications have been assigned to system appurtenances. Catch basin inlets and outlets, depth of sumps, system condition, maintenance history, and evidence of potential illicit flows are recorded. Yearly reports have been provided to EPA in accordance with the General Permit.
6a - Addition	Public Beach Testing	Board of Health		Rockport's public beaches are tested regularly for bacterial contamination. Beach testing results are posted on-line for all public beaches. In recent years, all of Rockport's beaches have consistently tested safe for swimming.
7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste-Load Allocations (WLA)-				
TMDL-1	Check Current Impairment List	Department of Public Works	Y1: There are no completed TMDL studies for receiving waters in Rockport. Y2-Y5: Reference Part II of the current Massachusetts Integrated List of Waters for newly listed water bodies with completed TMDL studies in which Rockport SW outfalls directly or indirectly discharge.	TMDLs for receiving waters in Rockport have been drafted, but have yet to be finalized by the EPA/DEP.

Part IV. Summary of Information Collected and Analyzed

No data has been collected or analyzed.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by **, which indicates response is for period covering April 1, 2006 through March 31, 2007)

Programmatic

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

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
<ul style="list-style-type: none"> ▪ days sponsored ** ▪ community participation ** ▪ material collected ** 	(#)	
School curricula implemented	(# or %)	
	(tons or gal)	
	(y/n)	

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					

Mapping and Illicit Discharges

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

Construction

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	
Qty of structures cleaned **	(#)	
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**		(\$)
• Hourly or per basin contract rate **		(\$/hr or \$ per basin)
• Disposal cost**		(\$)
Cleaning Equipment		
• Clam shell truck(s) owned/leased		(#)
• Vacuum truck(s) owned/leased		(#)
• Vacuum trucks specified in contracts		(y/n)
• % Structures cleaned with clam shells **		(%)
• % Structures cleaned with vacor **		(%)

	(Preferred Units)	Response
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)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or in mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of:
 ("N/A" = never used; "100%" = elimination)

▪ Fertilizers	(lbs. or %)
▪ Herbicides	(lbs. or %)
▪ Pesticides	(lbs. or %)
Integrated Pest Management (IPM) Practices Implemented	(y/n)

(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand
Pre-wetting techniques utilized **	(y/n or %)
Manual control spreaders used **	(y/n or %)
Zero-velocity spreaders used **	(y/n or %)
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)
% of salt/chemical pile(s) covered in storage shed(s)	(%)
Storage shed(s) in design or under construction	(y/n or #)
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n