

Municipality/Organization: Town of Auburn

EPA NPDES Permit Number: MAR041088

MassDEP Transmittal Number: W-

Annual Report Number Year 11
& Reporting Period: April 1, 2013 – March 31, 2014

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: William A. Coyle, P.E. Title: DPW Director/Town Engineer

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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: William A. Coyle

Printed Name: William A. Coyle, P.E.

Title: DPW DIRECTOR/TOWN ENGINEER

Date: 5/1/14

Part II. Self-Assessment

The Town of Auburn has completed the required assessment and determined that our municipality is in compliance with all current permit conditions. The Town has continued its commitment to addressing stormwater needs through consistent funding of these activities through the general fund. Initiated in FY 2011, the supplemental stormwater funding level of approximately \$300,000 annually was maintained in FY 2014 and is currently being sought in the FY 2015 budget.

The Town completed stormwater and road drainage improvements along the following roads:

- “A” Street: Reduction of impervious area of approximately 2,000 sq.ft. through installation of a planting strip.
- Field Street: Reduction of impervious area by approximately 900 sq. ft., through reduction of road width, installation of subdrains to alleviate surface runoff issues, and replacement of approximately 100 feet of deteriorated drain pipe.
- Gates Court: Installation of a leaching basin to promote recharge to groundwater and alleviate localized roadway flooding.
- Leicester Street: Replacement of deteriorated catch basin with a deep-sump catch basin.
- Lincoln Street: Replacement of approximately 300 feet of deteriorated corrugated metal pipe.
- Marilyn Street: Replacement of approximately 1000 feet of deteriorated corrugated metal pipe.
- Otis Street: Replacement of approximately 600 feet of deteriorated corrugated metal pipe.
- Oakland Drive: Replacement of one catch basin with a deep-sump catch basin, installation of an additional deep-sump catch basin to alleviate erosion and sediment issues.
- Riverside Drive: Replacement of deteriorated stormwater infrastructure with two deep-sump catch basins

As part of the Town’s ongoing efforts towards stormwater system maintenance and improved water quality, the DPW continued their implementation of a revised de-icing program that significantly reduces the amount of sand placed on the Town’s roads. As part of this program, two of the DPW’s spreader trucks were retrofitted with an automatic spreader system. In addition, the Town purchased two spreader trucks with an automatic spreader system as a replacement for two older vehicles. All DPW employees involved in the deicing of roads have attended training on the importance of reduction of materials being applied on the Town’s roads.

As part of a regional EPA Community Innovation Challenge Grant and in partnership with the Massachusetts Department of Environmental Protection, the Town participated in an internship program with three Worcester Polytechnic Institute students. As part of this program, the students took part in updating the Town’s GIS stormwater infrastructure database.

In an effort to minimize impervious areas, the Town has revised its Subdivision Regulations to decrease the width of roads from 30 feet (all roads) to 28 feet (major roads) and 24 feet (minor roads). This change will result in a reduction of future impervious areas by 7% and 20%, respectively.

The Town was designated a Green Community in 2012.

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1A Revised	Mail Educational Information to Businesses and Residents	Planning Dept., DPW, and Auburn Water District	Number of articles and copies of materials.	Educational material was previously included with water bills, through an ongoing cooperative effort with the Auburn Water District.	Auburn Water District continues to have the capability to include stormwater educational materials as water bill inserts, to supplement information posted on the Town's updated website.
1B Revised	Develop Stormwater Section of Town Website	Planning Dept., DPW, and MIS Dept.	Measure number of hits per quarter.	Town website was revamped in 2011, with stormwater information under the Town Engineer's section. Educational pamphlets were posted on the website.	Provide updated information for the stormwater section of the Town's website, in conjunction with recently awarded Community Innovation Challenge Grant (multi-community).
1C Revised	Develop and broadcast a stormwater presentation on local cable network	Stormwater Committee and DPW	Cable TV tapes of shows.	Update on stormwater issues was made periodically at Board of Selectmen meetings, which were broadcast on local cable.	Consider broadcast of available educational materials, to be coordinated through the recently awarded Community Innovation Challenge Grant (multi-community).
1D Revised	Publish Quarterly Article in Local Newspaper	Planning Dept., Health Dept., DPW and Water District	Copies of Articles.	Update on stormwater issues was provided in the Auburn Account, the Town's Quarterly Municipal Newsletter (available through Town website).	Continue to provide quarterly update on stormwater issues and progress on Stormwater Master Plan in the Auburn Account.

1a. No additions at this time

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2A Revised	Conduct River Stream, and Pond Cleanups	Planning Dept., DPW and Conservation Commission	Cleaner streams as documented by before and after photographs	Continued Leesville Pond winter “drawdown” for weed control (and assoc TMDL reduction). Continued cooperative efforts with Auburn Water District, who performed winter “drawdown” of Dark Brook Reservoir and Lower Stoneville Pond. Continued annual chemical treatment for aquatic weed control at Eddy Pond, Pondville Pond, and Leesville Pond. The Town adjusted the dewatering program to include the use of, the newly approved product, Clipper (Flumioxazin), thereby maximizing the effectiveness of the chemical treatment at Leesville Pond. In addition, the treatment for Phragmites Australis (Common Reed) at Pondville Pond was added to the program. A Town-Wide cleanup day was held on May 4, 2013 that included the four Town-owned ponds. DPW removed sediment from forebay in detention pond at Pappas Complex. DPW removed approximately 50 cy of sediment from outlet at Lower Stoneville Pond, and 40 cy from ditches throughout town including Rochdale St, Preston St, and Leicester St.	Continue to foster cooperation with the Auburn Water District for cleanup of the non-Town-owned ponds. Continue aquatic weed control for Town ponds, including winter “drawdown” or chemical treatment as appropriate.
2B Revised	Establish a Classroom Education Program	Planning Dept., DPW, and Conservation Commission	The classroom education program will be implemented in the next permit cycle.	Town staff has approached the School Superintendent and Principals of two of the elementary schools regarding a stormwater curriculum.	Work with schools to establish implementation plan/schedule. Use Enviroscope table for classroom education, available through the regional Community Innovation Challenge Grant.

2C	Help establish Volunteer Stormwater Organization	Stormwater Committee	Document quarterly meetings.	Cooperative efforts ongoing with pond advocacy groups, such as the Leesville Pond Watershed and Neighborhood Association.	Continue cooperative efforts with Town pond advocacy groups and plan projects/activities that can be completed by groups. Continue Town participation in the Upper Blackstone Coalition, as regional advocacy group. Continue participation in regional Community Innovation Challenge Grant, on collaborative education programs, including use of field water quality test kits available through this grant.
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2a. No additions at this time.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3A Revised	Develop Town Storm Drain Outfall Map	DPW	All outfalls mapped by year 5	A GIS base map and database for the Auburn storm drain system was created in previous permit years. Existing GIS base map includes outfall information and receiving water information. Existing GIS base map and database were continually updated based upon system maintenance and improvement activities (i.e. catch basin repairs). Through an internship program developed by a regional EPA Community Innovation Challenge Grant and in partnership with the Massachusetts Department of Environmental Protection, three students took part in updating the Town's GIS stormwater infrastructure database.	Continue to work with MassDOT and the Turnpike Authority to obtain complete drainage information for highways owned/maintained by others (ie. I-90, I-290, I-395). Continue to enhance "connectivity" between storm drain structures, based upon field observations during routine maintenance.
3B Revised	Develop Illicit Discharge Prohibition Ordinance	Planning Dept., DPW, and Health Dept.	Obtain authorization to control inputs to the municipal drainage system. Bylaw at Town meeting in next permit cycle.	Bylaw passed in Nov 2009 entitled "Stormwater Management, Erosion Control and Illicit Discharge Bylaw" which prohibits illicit discharges. The Town is planning revisions to the Town Bylaws which include updates to the Stormwater Management, Erosions Control and Illicit Discharge Bylaw. Draft regulations for implementation of bylaw were revised in 2013	Finalize specific regulation for implementation of bylaw
3C Revised	Develop Illicit Discharge Detection and Elimination Plan and Implement Activities	Planning Dept. and DPW	All outfalls examined by year 4. Sources traced and conclusion documented within one year of discovery.	Illicit discharge detection plan completed. Outfalls identified have been screened for illicit discharges.	No further activity planned, beyond ongoing inspections and response to new illicit discharges identified.

3D Revised	Incorporate Information on Illicit Discharges into Public Education and Outreach Topics	Planning Dept. and DPW	Copies of materials	Illicit discharge education material included on updated Town website.	Continue public education on hazards associated with illegal discharges and improper disposal of waste. Implement catchbasin stenciling to highlight connectivity to waterbody. The Board of Health will hold a Household Hazardous Waste Collection Day on May 3, 2014.
3E Revised	Hold Annual Household Hazardous Waste Collections	Board of Health	Documented quantity of wastes collected annually.	Most recently, a Household Hazardous Waste Collection Day was held on May 19, 2012 (Permit Year 10). The Auburn Board of Health holds these events biannually. Information on disposal of special wastes is continuously posted on the Town's website.	
3F Revised	Identify Department to Take Stormwater Calls	Planning Dept. and DPW	Log of complaints and actions taken.	Stormwater related calls are tracked by the Department of Public Works, with open communication established throughout the departments to ensure stormwater complaints are properly identified and resolved.	Protocol for addressing and reporting dumping or other inappropriate inputs into the MS4 will be available online, as part of enhancing the stormwater section of the website. Response to stormwater calls is evaluated as calls come in and directed to Engineering or Highway Divisions as appropriate.

3a. No additions at this time.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4A Revised	Develop Erosion Control Regulations	DPW and Selectmen	Bylaw at Town meeting in next permit cycle.	Bylaw passed in Nov 2009 entitled “Stormwater Management, Erosion Control and Illicit Discharge Bylaw” which prohibits illicit discharges. The Town is planning revisions to the Town Bylaws which include updates to the Stormwater Management, Erosions Control and Illicit Discharge Bylaw. Draft regulations for implementation of bylaw were revised in 2013.	Finalize specific regulation for implementation of bylaw
4B Revised	Develop Guidance for Erosion Controls	Planning Dept., DPW, and Consultant	Inspection checklist and documented inspections.	DPW Director/Town Engineer has coordinated stormwater management, enforcement and construction site/erosion control inspection. DPW Director/Town Engineer conducted inspections of erosion controls and construction sites.	Finalize guidance outlining specific erosion control requirements desired by Auburn. Finalize inspection checklist and set up a tracking program. Continue ongoing inspections of erosion controls.
Revised	Identify Department to Take Stormwater Calls	Planning Dept. and DPW	Log of complaints and actions taken.	Stormwater related calls are tracked by DPW Director/Town Engineer, with open communication established throughout departments to ensure stormwater complaints are properly identified and resolved. Public education has been successful, with public reporting of inappropriate discharges.	Protocol for addressing and reporting dumping or other inappropriate discharges into the MS4 will be available online, as part of enhancing the stormwater section of the website.

4a. No additions at this time

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5A Revised	Develop BMP Regulation	DPW and Selectmen	Bylaw at Town meeting in next permit cycle.	Bylaw passed in Nov 2009 entitled “Stormwater Management, Erosion Control and Illicit Discharge Bylaw” which prohibits illicit discharges. The Town is planning revisions to the Town Bylaws which include updates to the Stormwater Management, Erosions Control and Illicit Discharge Bylaw. Draft regulations for implementation of bylaw were revised in 2013.	Finalize specific regulation for implementation of bylaw
5B Revised	Develop BMP Design and Standards	Planning Dept., DPW, and Consultant	Copy of design standards.	Specific BMP requirements desired by Auburn are included in the Stormwater Bylaw and draft regulations.	Finalize design standards for developers to follow including design performance criteria, BMP examples, and maintenance requirements.
5C Revised	Develop and Implement Inspection Program	Planning Dept., DPW, and Consultant	Retain copies of maintenance reports received annually, plus records of inspections completed and results	DPW Director/Town Engineer performed inspections.	Setup a maintenance tracking program that requires annual maintenance reports by owner. Conduct post-construction stormwater control inspections for sites without an annual report. Require operation and maintenance plan of developers.
5D Revised	Amend Zoning Bylaws to Regulate Impervious Areas	Planning Dept., DPW, and Zoning Board of Appeals	The new zoning bylaw will be implemented in the next permit cycle.	The Aquifer and Watershed Protection Overlay District boundaries were updated in 2008 (Permit Year 6). Current bylaw requires recharging via underground chambers with pretreatment to meet EPA and MassDEP stormwater quality standards.	Consider potential enhancements to the Aquifer and Watershed Protection Overlay district section of the Zoning Bylaw with focus on reducing impervious area.
5E	Adopt a Tree Preservation Bylaw	Tree Warden	Adopt a Tree Preservation Bylaw in next permit cycle	The Town contracted with a local landscape company to plant 40 trees throughout Town utilizing grant	Continue tree preservation efforts, as appropriate.

Revised	Implement Tree Replacement Program	Tree Warden	Implement Tree Replacement Program in the next permit cycle	awarded by the Department of Conservation and Recreation	
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5a. No additional Post Construction Runoff Control BMP's

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6A Revised	Sweep Streets in Town	DPW	Priority plan of sweepings. Volume of sweepings collected.	In addition to annual sweeping in the spring, streets and sidewalks were swept throughout the winter season, weather permitting, in order to prevent sand from entering the stormwater system. Reduced use of sand, as part of previously revised de-icing program, significantly reduced amount of sand on roadways compared to previous years.	Continue implementation of revised de-icing program with overall reduction in amount of sand applied to roadways. Continue annual sweeping of roadways as early in the year as feasible.
6B Revised	Clean Catch Basins	DPW	Records of catch basins cleaned.	Approximately 200 catch basins were cleaned this year. Approximately 150 cubic yards of material was removed from catch basins. Approximately 35 catch basins were rebuilt to restore their protective function/capacity. One full-time stormwater employee continued to be funded under the DPW to address stormwater system maintenance activities. Assistant Town Engineer continued update of GIS to reflect system maintenance.	Continue aggressive catch basin cleaning activities, with improvement and/or rehabilitation as necessary. Record sediment collected per catch basin each cleaning.
6C	Calibrate Salt Spreading Equipment	DPW	Prevent over-application of salt as shown with calibration records.	The DPW (Highway Division) continued to implement a revised de-icing program that significantly reduces the amount of sand, while maintaining	Continue implementation of revised de-icing program with overall goal of reduced sand use.

Revised				the amount of salt use. Two new spreader trucks, with automatic additional trucks were retrofitted with an automatic spreader system, in addition to the automatic spreader system equipped truck that was purchased in 2012 (Permit Year 10). All salt/sand trucks have been calibrated to distribute 300 lbs of salt treated with magnesium chloride per lane mile. Sand is only used during icing conditions and in extenuating circumstances.	Continue to replace manual-control spreader trucks with automatic or zero-velocity spreaders.
6D	Continue Practice of Low Salt Ratio Application	DPW	Use low salt ration throughout town.	The DPW (Highway Division) continued to implement a revised de-icing program that significantly reduces the amount of sand, while maintaining the amount of salt use. Two new spreader trucks, with automatic spreader system were purchased, two additional trucks were retrofitted with an automatic spreader system, in addition to the automatic spreader system equipped truck that was purchased in 2012 (Permit Year 10). All salt/sand trucks have been calibrated to distribute 300 lbs of salt treated with magnesium chloride per lane mile. Sand is only used during icing conditions and in extenuating circumstances.	Continue implementation of revised de-icing program with overall goal of reduced sand use. Continue to replace manual-control spreader trucks with automatic or zero-velocity spreaders.
6E	Develop an Inspection and Maintenance Plan	DPW	Records of inspections and maintenance	O&M plan developed for stormwater system, including street sweeping, catch basin maintenance/inspection and outfall maintenance/inspection. Detention ponds were inspected and inventoried, with development of BMP maintenance plan.	Perform inspection and maintenance, modifying frequency as necessary. Implement a written yearly BMP maintenance schedule.

6F Revised	Ensure Water Quality Improvements are Considered for Flood Projects	DPW	Document flood control projects.	Work previously completed at Eddy Pond dam including reconstruction to facilitate drawdown. Stormwater system projects used deep sump catch basins and specialized hoods to improve performance. Installed approximately 2,000 feet new stormwater pipe on Field St, Lincoln St, Marilyn Drive, and Otis St as part of the Town's road reconstruction project. Project also included deep sump catch basins and overall road width reduction (less impervious area).	Continue to identify opportunities for implementation of Water Quality Improvements, as part of scheduled infrastructure replacement and/or rehabilitation projects.
6G Revised	Discontinue Outdoor Vehicle Washing	All Town Departments	Written policy	Discontinued outdoor vehicle washing at the Highway garage. Verified that all garage drains attached to a gas trap which discharges to the sanitary sewer system were cleaned once per year	Ongoing inspection/cleaning of gas trap and adherence to policy banning outdoor vehicle washing.
6H Revised	Implement BMP's at the Highway Garage to Prevent Sedimentation to the Adjacent Waterway from Site Runoff and Road Material Storage	DPW	Before and after photographs. Records of sweeping and catch basin cleaning.	The sand pile and raw material piles remain contained to prevent release to the adjacent stream. The yard and catch basins were cleaned as required. The Salt Storage Shed was rebuilt to further protect waterways from sedimentation and salt. A stone check dam was built around the catch basin located near the materials storage area.	Sweep the yard and clean catch basins frequently. Document sweeping and catch basin cleaning.
6I Revised	Cover Junk Equipment and Vehicles	All Town Departments	Cover all junk equipment and vehicles.	Previously additional scrap metal and junked vehicles were removed from the Highway Garage yard.	Vehicles to be provided with covers and drip pans, on an ongoing basis. Eliminate prolonged storage of scrap metal and junked vehicles.
6J Revised	Dispose of Hazardous Waste Drums	All Town Departments	Keep a record of drum disposal	All drums are stored indoors until they can be disposed of. All waste drums were removed/disposed of properly. Additional 200 gallons of Hazardous waste was removed and will be disposed of on May 3, 2014 at the Hazardous Waste Collection Day.	Continue practice of storing drums indoors for prompt disposal.

6K Revised	Inspect and Cover Dumpsters	DPW	Record Inspections	Dumpsters have been inspected and covers maintained in a closed position.	Continue inspection and maintenance of dumpsters. Inspect dumpsters yearly to ensure there are no leaks.
6L Revised	Document Protocols for Municipal Operations	DPW	Copies of policies.	Policies are available for review by Town employees, such as the new vehicle washing policy banning outdoor washing of vehicles.	Develop written policies for all municipal operations. Review policies with DPW employees.
6M Revised	Conduct Town Employee Stormwater Training	DPW	Attendance sheet and copy of program.	Fire Department was previously trained for spill containment. Highway Department was previously trained on stormwater. DPW employees attended training on the importance of reduction of materials being applied on the Town's roads. Assistant Town Engineer received training and became a Certified Professional in Erosion and Sediment Control as well as a Certified Erosion, Sediment, and Storm Water Inspector.	Conduct training of DPW employees using modules being developed under the regional Community Innovation Challenge Grant.

6a. No additional Good Housekeeping BMP's

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
7A	Develop a Water Quality Strategy for 303d Waters	DPW and Consultant	Summary of existing pollution prevention efforts, future needs, and responsible parties. Copy of Surface Water Quality Strategic Plan	Continued winter “drawdown” of Leesville Pond for weed control (and assoc TMDL reduction). Stormwater master Plan identified conceptual BMP’s that may be implemented to address water quality issues.	Foster cooperation with established and newly formed advocacy groups, such as the Leesville Pond Watershed and Neighborhood Assoc. and the Eddy Pond Watershed Assoc.
Revised					
7B	Implement BMP’s from Water Quality Strategy	DPW and appropriate Departments	Photographs, logs and BMP descriptions for completed efforts and water quality improvements.	Continued Leesville Pond winter “drawdown” for weed control (and assoc TMDL reduction). Continued annual chemical treatment for aquatic weed control at Eddy Pond, Pondville Pond, and Leesville Pond. The Town adjusted the dewatering program to include the use of, the newly approved product, Clipper (Flumioxazin), thereby maximizing the effectiveness of the chemical treatment at Leesville Pond.	Continue implementation of aquatic weed control for Town ponds, including winter “drawdown” or chemical treatment as appropriate.
Revised					

7a. No additional BMP’s at this time for compliance with TMDLs

7b. WLA Assessment

TMDL studies have been completed for Auburn Pond, Eddy Pond, Leesville Pond, Pondville Pond, and Stoneville Pond. The BMP’s in Minimum Measures 1 through 6 are being applied first. These include measures recommended by the TMDLs such as public education, fostering volunteer watershed groups, street sweeping, catch basin cleaning and mapping outfalls. The Town has developed a Stormwater Management Master Plan for its stormwater system. This plan includes recommended BMP’s (conceptual locations and designs) to address the identified TMDL issues.

Part IV. Summary of Information Collected and Analyzed

GIS database records, relative to system maintenance and improvement activities (updated through Permit Year 11).
Stormwater Management Master Plan (updated March 2010).

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

	(Preferred Units)		Response
	(y/n)		
Stormwater management position created/staffed			Yes (see below)
Land Use Enforcement Officer			Stormwater responsibilities handled by Town Engineer.
Assistant Town Engineer			Hours/budget maintained
DPW Employee (full-time stormwater focus)			Staffed since 2011
Annual program budget/expenditures			
	(\$)		\$300,000 (supplement)
			Approved for FY 2014 with similar funding level sought for FY 2015
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)			General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s) (as determined by Town Website)	(# or %)		Approx 80%
Stormwater management committee established	(y/n)		Yes
Stream teams established or supported (cooperative efforts initiated with pond/watershed advocacy groups)	(# or y/n)		Yes
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			
▪ days sponsored	(#)		
▪ community participation	(# or %)		
▪ material collected	(tons or gal)		
School curricula implemented	(y/n)		Initiated

Legal/Regulatory

Regulatory Mechanism Status (indicate with "X")	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
▪ 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

	(Preferred Units)		Response
Outfall mapping complete	(%)		100%
Estimated or actual number of outfalls	(#)		329
System-Wide mapping complete (complete storm sewer infrastructure)	(%)		97%
Mapping method(s)			
▪ Paper/Mylar	(%)		
▪ CADD	(%)		
▪ GIS	(%)		100%
Outfalls inspected/screened	(# or %)		100%
Illicit discharges identified	(#)		0
Illicit connections removed	(#); and (est. gpd)		0
% of population on sewer	(%)		85%
% of population on septic systems	(%)		15%

Construction

	(Preferred Units) Response	
Number of construction starts (>1-acre)	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	2

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	(#)	200
Qty. of storm drain cleaned	(%, LF or mi.)	5,000 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	150 cy
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	(#)	1
• Vacuum truck(s) owned/leased	(#)	1
• 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)	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)	600 cy
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	(#)	3 owned
• Vacuum street sweepers owned/leased	(#)	2 owned
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers	%	100%
• % 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		See Note
NOTE: Town implemented a revised de-icing program in 2011, using Clearlane Enhanced Deicer by Cargill, an EPA endorsed product. As part of the program, all salt/sand trucks have been calibrated to distribute 300 lbs of salt treated with magnesium chloride per lane mile. This is a drastic change from previous years where the ration of salt to sand has been 3 parts sand and 1 part salt. The use of sand has been minimized, and is only used during icing conditions.		% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand
Pre-wetting techniques utilized	(y/n or %)	No
Manual control spreaders used	(y/n or %)	Yes
Zero-velocity spreaders used	(y/n or %)	Yes
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)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	