



COMMONWEALTH OF MASSACHUSETTS

Town of Southwick

Office of the Board of Selectmen

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Roger B. Cataldo, Chairman
Arthur G. Pinell, Vice-Chairman
David A. St. Pierre, Selectman

Karl J. Stinehart,
Chief Administrative Officer
Cindy Pendleton
Administrative Assistant

MAY 1 2009

S-1406-1-34
April 29, 2009

Glenda Velez – CIP
U.S. Environmental Protection Agency – Region 1
One Congress Street – Suite 1100
Boston, MA 02114-2023

Re: Annual Report – Year 6
NPDES General Permit MS4
EPA MAR041022/DEP W-
045481
Town of Southwick,
Massachusetts

*** Sent Certified Mail ***

Dear Ms. Velez:

Please find enclosed the NPDES Phase II Small MS4 General Permit Annual Report for the Town of Southwick, Massachusetts. This information is submitted to the EPA in accordance with EPA's Annual Reporting requirement.

If you have any questions regarding this information, please contact me at (413) 569-5995. Thank you for your attention in this matter.

Sincerely,

KARL J. STINEHART
CHIEF ADMINISTRATIVE OFFICER
TOWN OF SOUTHWICK

Enclosure

Copy: Fred Civian, MA DEP

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Municipality/Organization: Southwick
EPA NPDES Permit Number: MAR041022
MassDEP Transmittal Number: W-045481
Annual Report Number & Reporting Period: Year 6
April 1, 2008 – March 31, 2009

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

Part I. General Information

Contact Person: Karl Stinehart **Title:** Town Administrator
Telephone #: (413) 569-5995 **Email:** kstinehart@southwickma.net
Mailing Address: 454 College Highway, Southwick, MA 01077

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: Roger B. Cataldo

Printed Name: Roger B. Cataldo

Title: Board of Selectmen - Chairman

Date: 4/29/09

Part II. Self-Assessment

The Town of Southwick has completed the required self-assessment and has determined that our municipality is in compliance with our Stormwater Management Program and permit conditions. The Town has aggressively mapped outfall locations throughout the Town as well as implemented Cartographic mapping for the Town. Southwick continues to publicize stormwater issues and encourages active participation by townspeople in addressing pollution and stormwater issues. The Town adopts measures to address the NPDES requirements while considering the existing regulations and procedures that address stormwater management. This was discussed at the March 16, 2009 Special Town Meeting.

Acronyms Used in the Following Pages:

BOS = Board of Selectmen

Con Com = Conservation Commission

CRC = Citizens Restoring Congamond

DPW = Department of Public Works

LMC = Lake Management Committee

PB = Planning Board

PRC = Parks & Recreation Commission

PVPC = Pioneer Valley Planning Commission

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 – Permit Year 7 |
|-----------------|--------------------------|--------------------------------------|--|--|--|
| 1A Revised | Classroom Education | School District | Incorporate water quality into curriculum | Powder Mill Middle School students supported by LMC performed nine lake water quality sampling and analysis in 2008 | Study water quality as part of the 7 th and 8 th grade curriculum at the Powdermill School |
| 1B Revised | Southwoods Magazine | Con Com / BOS | Publish stormwater / water quality information 1x/year | Drinking water results are published annually, with the latest results published in July 2008 | Publish stormwater / water quality information one time per year |
| 1C Revised | Newspaper Press Releases | BOS | Publish stormwater / water quality information 2x / year | Newspaper articles published on Town Clean-up Day, Household Hazardous Waste Collection Day, Annual Lake Clean-up, Sewer system installation progress and on-going 319 projects, including the addition of several deep-sump catch basins and infiltration structures, 5 BaySavers and 4 grassed swales, along with other erosion prevention improvements. | Publish stormwater / water quality information twice per year |
| 1D Revised | Local Cable Access | BOS | Post stormwater / water quality information 2x / year | Taped and televised re-runs of "Town Cleanup" and "Annual Lake Cleanup" Please refer to BMP 2C). | Post stormwater / water quality information twice per year. |
| 1E Revised | Lakeside Kiosks | LMC | Post stormwater / water quality information 2x / year | Handout information on exotic species to boaters launching at two State Boat Ramps. Also, "No Weeds In / No Weeds Out" and "Do not feed waterfowl" signs posted at boat ramps. A Visitor Information Center is also present to provide information to the general public | Post stormwater / water quality information twice per year. |

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|---------------|-------------------|-----|---|---|---|
| 1F Revised | Community Website | BOS | Post stormwater / water quality information 2x / year | CRC and Commonwealth of Massachusetts websites are linked through the Town's website; LMC, Con Com and Community Preservation Committee also have pages on the Town website. The DPW webpage also includes information on Highway Division activities including catch basin repairs and cleaning, street sweeping and roadside cleanup. Town Cleanup Day was publicized on the Town website. These pages will continue to be expanded to include more stormwater information as the program develops. | Post stormwater / water quality information twice per year. |
|---------------|-------------------|-----|---|---|---|

1a. Additions

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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 – Permit Year 7 |
|---------------|------------------------------------|-------------------------------|--|---|--|
| 2A Revised | Wetland Cleanup | Southwick Rotary / Con Com | Support interested groups with trash pickup. | During 2008, the Southwick Rotary sponsored four highway clean-ups along College Highway, in which nearly 60 bags of trash was collected and disposed of at the transfer station. | Continue to support interested groups by collecting trash bagged by participants |
| 2B Revised | Student Water Quality Monitoring | School Department | Conduct water quality sampling and analysis | The schools performed lake water sampling and analysis during June 2008. | Conduct water quality sampling and analysis during 2009 if schools are able to schedule. |
| 2C Revised | Annual Lake Clean-Up | CRC | Conduct Clean-Up Day | The CRC and LMC annual clean-up of Lake Congamond occurred on June 7, 2008 in which 12 volunteers removed 3 truckloads of debris from the lakes and canal, while 8 volunteers weeded and planted new plants at the North Ramp, gazebo, and parking areas. | Hold lake clean-up day in Summer 2009 (Scheduled for June 6, 2009) |
| 2D Revised | Lakeside Maintenance | LMC | Maintain trash receptacles at Lake Congamond | LMC continued to maintain ~25 trash receptacles at public access points to Lake Congamond | Continue to maintain trash receptacles at public access points to Lake Congamond |
| 2E Revised | Volunteer Water Quality Monitoring | CRC | Conduct water quality sampling and analysis | Water quality sampling & analysis was conducted monthly at Lake Congamond. Analytes include: temperature, pH, dissolved oxygen, conductivity, phosphorus, and chlorophyll. | Continue water quality sampling and analysis |
| Revised | | | | | |

2a. Additions

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|--|----------------------------------|------------------------|-----------------------------------|--|---|
| | Town-Wide Clean-Up | CRC / Con Com / DPW | Conduct Town-Wide Clean-up Day | The Rotary Club sponsored 4 clean-ups of 1 mile of College Highway in 2008, resulting in the collection of 59 bags of trash. A town-wide cleanup day was held on May 3, 2008. Two 30-yard dumpsters were filled with trash, along with 1-ton of metal for recycling and 30 -40 tires collected. | The Rotary Club plans to continue its work on College Highway via the "Adopt a Highway" program. A 2009 town-wide cleanup is currently being organized. |
| | Plantings for Erosion Control | Scouts | Plant trees to control erosion | Scouts planted 30 pine trees and 30 maple trees at the Water Department's Well Site off Feeding Hills Road | Continue to encourage Scouts to continue plantings in this area as well as other areas in Town in need of erosion control. |

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 – Permit Year 7 |
|---------------|--------------------------------------|-------------------------------------|----------------------------|--|--|
| 3A Revised | Mapping Stormwater Outfalls | DPW | Develop map of outfalls | The DPW contracted the services of Cartographic, who mapped the Town for the Assessor's Office, mapped the catch basins and outfalls in the Town, along with the entire water and sewer system. This system, along with GPS and data system were made fully operational in 2008. | Continue to update system as necessary and map additional outfalls as found. |
| 3B | Develop Illicit Discharge Program | DPW | Draft Plan | DPW has an existing Curtain Drain/ Foundation Drain Policy allowing connection to catch basin and another bylaw that prohibits discharging of sump pumps into the street or catch basins. Periodic inspections are conducted by DPW for presence of gray water or bacteria, which would result in disconnection from the system. | Revise procedures/ plan as necessary in future. |

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|---------------|--------------------------|---------|---|--|---|--|
| Revised | | | | | Through storm drain outfall mapping process, potential illicit connections (sewer pumps) continue to be identified and addressed. Townspeople voted to approve the new Illicit Discharge and Floor Drain Bylaws at the March 15, 2008 Special Town Meeting | |
| 3C Revised | Non-Stormwater By-Law | BOS/DPW | Draft by-law. | | DPW has an existing Curtain Drain/Foundation Drain Policy allowing connection to catch basin and another bylaw that prohibits discharging of sewer pumps into the street or catch basins. | Refine by-law and propose to Town Meeting for adoption as necessary in future. |
| 3D Revised | Illegal Dumping | DPW | Perform regular patrols/cleanup | | DPW performed regular patrols and cleaned up illegal dumped trash. Police have ticketed those found responsible for illegal dumping. The DPW has pulled several Transfer Station Permits for violating Transfer Station policies and/or dumping trash along the road. | Continue to perform regular patrols/cleanup. |
| 3E Revised | Water Quality Monitoring | BOH | Regular sampling at beach sites in summer | | BOH performed weekly sampling at Town Beach when open from June through August, 2008. | Continue to perform weekly water quality monitoring at beaches during summer months. |
| Revised | | | | | | |

3a. Additions

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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 – Permit Year 7 |
|---------------|-----------------------------|-------------------------------|--------------------------|---|--|
| 4A Revised | Construction Run-Off By-Law | PB / Con Com / DPW | Draft By-Law | The Town, with the assistance of PVPC, drafted a by-law which was approved by Town voters at the March 16, 2009 Special Town Meeting. Building Department is distributing information packages on NPDES construction and requiring builders to sign off on receipt of package. Planning Board and DPW are also informing developers of NPDES requirements and have incorporated proof of NPDES NOI submittal and development of SWPPP as permitting requirement | Continue to work with developers to incorporate BMPs during construction activities. |
| 4B Revised | Plan Review | PB / Con Com / DPW | Enforcement under by-law | Continued plan review per new by-laws. | Continued inspection / reporting under new by-law. |
| 4C Revised | Inspection / Reporting | DPW / PB / Con Com | Enforcement under by-law | Continued inspection / reporting under new by-laws. Town officials have worked with developers to ensure compliance with required BMPs during construction. | Continued inspection / reporting under new by-law. |

4a. Additions

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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 – Permit Year 7 |
|---------------|------------------------------------|-------------------------------|--------------------------|--|--|
| 5A Revised | Post-Construction Runoff By-Law | PB / Con Com / DPW | Draft By-Law | The Town, with the assistance of PVPC, drafted a by-law which was approved by Town voters at the March 16, 2009 Special Town Meeting. Continued plan review per new by-law. | Continue to monitor need for updating bylaws. |
| 5B Revised | Construction Site Plan Review | PB / Con Com / DPW | Enforcement under By-Law | Continued inspection / reporting under new by-law. | Continued inspection / reporting under new by-law. |
| 5C Revised | Stormwater System Maintenance Plan | PB / Con Com / DPW | Enforcement under By-Law | Continued inspection / reporting under new by-law. | Continued inspection / reporting under new by-law. |

5a. Additions

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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 – Permit Year 7 |
|---------------|--|-------------------------------|--|--|--|
| 6A Revised | Municipal Maintenance Activity Program | DPW / PRC | Evaluate and draft additional policies | All roads swept as part of spring cleanup. All catch basins are vacuumed 1x/year after sweeping, some 2x/year (by lakes). | Continue with annual sweeping and catch basin cleaning program. Draft new policies as necessary. |
| 6B Revised | Training of all Municipal Activities | DPW | Initial good housekeeping training | In-house training is done for new hires or anyone transferring within DPW. Good housekeeping training attended by Town Officials, maintenance and DPW staff on April 1, 2009. | Conduct good housekeeping training. |
| 6C Revised | Catch Basin Cleaning Program | DPW | Clean 90% of catch basins annually | Town purchased its own vacuum/jet rodder truck in 2005 and now performs catchbasin maintenance with DPW employees. 100% of town catch basins within the entire town were cleaned in the months of May through October, 2008. | Clean at least 90% of catch basins in 2009. |
| 6D Revised | Street Sweeping & Cleaning | DPW | Sweep 90% of the streets annually | 100% of paved town streets within the entire town were swept in the months of April, May and June, 2008. Approximately 25% of streets within urbanized area were swept twice. | Sweep at least 90% of streets in 2009. |

6a. Additions

| | | | | | |
|-----------------------|-----------------------|-----|--|---|--|
| | Exotic Aquatics Bylaw | LMC | | <p>Townpeople voted 11/30/99 to accept LMC proposed "No Weeds In/No Weeds Out" Town bylaw that addresses boats launching on Congamond Lakes – Ramp Attendants inspect boats entering/leaving ramps. DCR summer employee helped pass out info and educate boaters during summer 2008. New Visitor Center has lots more information available to public.</p> | <p>Continue reminding public, boat inspection process & giving out handouts on preventing spread of nuisance aquatics. DCR plans to supply summer employees in 2009 to assist in monitoring boats in/out of ramps and educate users.</p> |
| Stormwater Management | | LMC | | <p>LMC began seeking Town Funds & matching grants in 1995 to address erosion, sedimentation, etc. LMC received grants in 1995, 1997, 1999, 2001 & 2008 for various catch basin, erosion control, sedimentation chambers, etc. New 65-space public parking area designed & built in 1998 adjacent to boat ramp with 100% of stormwater sheet flowing onto grassy area where it percs naturally into ground. The Town & PVPC received another 319 grant to address erosion & sediment issues in 4 subwatersheds on the western side of Middle Pond. Five deep-sump catch basins, four Baysavers + grassy swales were added to the four outfalls in these subwatersheds. This work is ongoing, and is expected to be completed in 2008. Two more Baysavers were added as part of the Middle/South Pond culvert replacement project. Completion of this project will bring the total to 14 BaySavers, 1 detention/infiltration pond, and 9 grassed swales that address 15 major stormwater outfalls on the Congamond Ponds.</p> | <p>Continue seeking funding for projects in watershed. Work with PVPC (319 project manager), consulting engineering company, and contractor to implement BMPs in these 4 subwatersheds.</p> |

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|--------------------------|-----|--|--|---|
| Waterfowl Bylaw | LMC | | <p>Townpeople voted 3/14/02 to accept LMC proposed "Do Not Feed Waterfowl" Town bylaw that setup fines for feeding waterfowl. Ramp Attendants hand out literature on "why" not to feed waterfowl & LMC installed "Do Not Feed Waterfowl" signs at ramps & public areas. Compliance is nearly 100% without having to issue fines.</p> | <p>Continue reminding ramp users & public on benefits of not feeding waterfowl (besides fines).</p> |
| Waste Oil and Antifreeze | DPW | | <p>Added waste oil & antifreeze collection depot for recycling at the Transfer Station. Residents may bring in motor oil, hydraulic oil, and antifreeze.</p> | <p>Continue to collect waste oil and antifreeze from residents.</p> |

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 – Permit Year 7 |
|---------------|---------------------------------|-------------------------------|--------------------|--|------------------------------------|
| 7A Revised | No TMDL for waters in Southwick | | | | |
| Revised | | | | | |

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|---------|--|--|--|--|--|
| Revised | | | | | |
|---------|--|--|--|--|--|

7a. Additions

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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

- The Town notes the high involvement of its citizens and various community and lake organizations in improving town-wide environmental conditions.
- Nine weekly water samples were collected and analyzed for coliform at the Town beach during the 2008 beach season. No samples were above recommended coliform levels; therefore, no beach closures occurred.
- Water testing over the last five years by Citizens Restoring Congamond, Inc. showed levels of total phosphorus averaging over 20 micrograms/liter. Levels in other western Massachusetts lakes are typically in the (low) single digits indicating that the Congamond lakes are being affected by stormwater runoff.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2008 through March 31, 2009)

Programmatic

| | (Preferred Units) Response | |
|--|----------------------------|-----------------------|
| | (y/n) | Y & N (See note left) |
| Stormwater management position created/staffed – Currently being covered by DPW, Con Com & Board of Health – Long range staffing and necessary funding being assessed. Con Com is also hiring outside consultant under MGL 44§ 53G to perform peer reviews of new subdivision stormwater management plans. | | |
| Annual program budget/expenditures ** | (\$) | 25,000 |

| | |
|---|------|
| 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 %) | 20% |
| Stormwater management committee established | (y/n) | Y |
| Stream teams established or supported | (# or y/n) | N |
| Shoreline clean-up participation or quantity of shoreline miles cleaned ** | (y/n or mi.) | 5-6 miles/yr |
| Shoreline cleaned since beginning of permit coverage | (mi.) | |
| Household Hazardous Waste Collection Days | | Normally 1x / year |
| <ul style="list-style-type: none"> ▪ days sponsored ** ▪ community participation ** ▪ material collected ** | (#) | 1 |
| | (# or %) | 9% |
| | (tons or gal) | ~7 Tons |
| School curricula implemented | (y/n) | Y |

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 | | | | | 3/15/2008 |
| ▪ Erosion & Sediment Control | | | X | X | 3/16/2009 |
| ▪ Post-Development Stormwater Management | | | X | X | 3/19/2009 |
| Accompanying Regulation Status (indicate with "X") | | | | | |
| ▪ Illicit Discharge Detection & Elimination | | | | | 3/15/2008 |
| ▪ Erosion & Sediment Control | | | X | X | 3/16/2009 |
| ▪ Post-Development Stormwater Management | | | X | X | 3/16/2009 |

Mapping and Illicit Discharges

| | (Preferred Units) | Response |
|--|---------------------|-------------------|
| Outfall mapping complete | (%) | 100% |
| Estimated or actual number of outfalls | (#) | ~225 |
| System-Wide mapping complete (complete storm sewer infrastructure) | (%) | 100% |
| Mapping method(s) | | |
| <ul style="list-style-type: none"> ▪ Paper/Mylar – Older developments and projects ▪ CADD – Newer developments and projects ▪ GIS – Town-wide GIS Warrant Article for Town voters in May 2005 Town Meeting. ~2-year effort initiated November 2005; Entire system GIS work completed February 2008. Cartographic Mapping, GPS and Data system made fully operational in 2008 | (%) | 100% |
| Outfalls inspected/screened ** | (# or %) | ~210 |
| Outfalls inspected/screened (Since beginning of permit coverage) | (# or %) | |
| Illicit discharges identified ** Four possible outfalls & six sump pump discharges to storm system) | (#) | 10 |
| Illicit discharges identified (Since beginning of permit coverage) | (#) | |
| Illicit connections removed ** | (#); and (est. gpd) | |
| Illicit connections removed (Since beginning of permit coverage) – Corrective action work completed on 4 of 4 outfalls are part of the 2005 319 Grant. Work included a Baysaver and grassy swale at each outfall. 3 of 3 sump pump discharges identified in 2006 have been corrected and 1 of 6 identified during 2005 already corrected, remaining property owner received 2nd notice and fine under existing by-law) | (#); and (est. gpd) | See Notes at left |
| % of population on sewer | (%) | 25 |
| % of population on septic systems – Town voters approved the funding for design of the parallel interceptor that is a pre-requisite for Phase II of the sewer program. The Town's design firm is completing the design and numerous permits require for this new pipe that will go under two rivers. | (%) | 75 |

Construction

| | (Preferred Units) | Response |
|--|-------------------|----------|
| Number of construction starts (>1-acre) ** - Approximately 50% of projects exceed 1 acre. | (#) | 19 |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control ** | (%) | 75 |

| | | |
|---|------------|-----|
| Site inspections completed ** | (# or %) | ~35 |
| Tickets/Stop work orders issued ** | (# or %) | ~4 |
| Fines collected ** - Collecting fines remains problematic. Consequently, Con Com has started implementing "Restorative Justice" where fines are levied, however, the violator uses the fine money to restore or correct the violation and restore or correct any other areas that the Conservation Commission deems worthy. | (# and \$) | |
| Complaints/concerns received from public ** - DPW issued 4 stormwater warnings in 2008 | (#) | ~10 |
| | | |

Post-Development Stormwater Management

| | | |
|--|----------|-----|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%) | 75 |
| Site inspections (for proper BMP installation & operation) completed ** | (# or %) | ~75 |
| 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) | 1x / year |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) ** | (times/yr) | 1x / year |
| Qty of structures cleaned ** | (#) | ~1,100 |
| Qty. of storm drain cleaned ** | (%, LF or mi.) | ~300' |
| Qty. of screenings/debris removed from storm sewer infrastructure ** | (lbs. or tons) | 700-800 tons (dry weight) |
| Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | Town landfill / compost |

| Basin Cleaning Costs | | | |
|---|-------------------------|--|------------------|
| • Annual budget/expenditure (labor & equipment)** | (\$) | | |
| • Hourly or per basin contract rate ** | (\$/hr or \$ per basin) | | |
| • Disposal cost** | (\$) | | ~\$30,000 (2004) |
| Cleaning Equipment | | | |
| • Clam shell truck(s) owned/leased | (#) | | 0 |
| • Vacuum truck(s) owned/leased | (#) | | 1 |
| • Vacuum trucks specified in contracts | (y/n) | | 0 |
| • % Structures cleaned with clam shells ** | (%) | | 0 |
| • % Structures cleaned with vactor ** | (%) | | 100 |

| | (Preferred Units) | Response |
|--|--------------------|-------------------------|
| Average frequency of street sweeping (non-commercial/non-arterial streets) ** | (times/yr) | 1x / year |
| Average frequency of street sweeping (commercial/arterial or other critical streets) ** | (times/yr) | 1x / year |
| Qty. of sand/debris collected by sweeping ** | (lbs. or tons) | 1,200 – 1,300 tons |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | Town landfill / compost |
| Street sweeper is being considered for possible purchase in FY2010, depending upon funding availability. Contract services will be used until DPW purchases equipment | | |
| 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 | (#) | 0 |
| • Vacuum street sweepers owned/leased | (#) | 0 |
| • Vacuum street sweepers specified in contracts | (y/n) | |

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|---|---|-----|
| • % Roads swept with rotary brush sweepers ** | % | 100 |
| • % Roads swept with vacuum sweepers ** | % | 0 |

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

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

| | (Preferred Units) | Response |
|---|---|--|
| Average Ratio of Anti-/De-Icing products used ** | % NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand | 15% NaCl 5% CaCl ₂ 0% MgCl ₂ 0% CMA 0% Kac 0% KCl 80% Sand |
| (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) | | |
| Pre-wetting techniques utilized ** | (y/n or %) | Y |
| Manual control spreaders used ** | (y/n or %) | Y |
| Zero-velocity spreaders used ** | (y/n or %) | N |
| 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 %) | Y |
| % of salt/chemical pile(s) covered in storage shed(s) – New larger storage facility funding requested as part of new DPW land & facility | (%) | |
| Storage shed(s) in design or under construction | (y/n or #) | Y |
| 100% of salt/chemical pile(s) covered in storage shed(s) by May 2008 | (y/n) | Y |

Water Supply Protection

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