Municipality/Organization: **Town of West Springfield**

EPA NPDES Permit Number: **MA041024**

MassDEP Transmittal Number: **W-035938**

Annual Report Number & Reporting Period: **April 1, 2007 – March 31, 2008**

NPDES PII Small MS4 General Permit Annual Report
(Due: May 1, 2008)

Part I. General Information

Contact Person: James W. Lyons, P.E. Title: Town Engineer

Telephone #: (413) 263-3249 Email: Jlyons@West-Springfield.ma.us

Mailing Address: 26 Central Street - Suite 17, West Springfield, MA 01089-2763

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: Edward J. Gibson

Printed Name: Edward J. Gibson

Title: Mayor

Date: april 28, 2008

Part II. Self-Assessment

The Town of West Springfield has completed the required self-assessment and has determined that our municipality is in compliance with permit conditions where budget and resources allow.

Items that are deficient are as follows:

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) **Tighe & Bond Consulting Engineers for 3A, 3B & 3E**	Planned Activities – Future Permit
3A	Mapping Stormwater Outfalls	DPW	Develop map of stormwater outfalls, Year 1 Field inspect, Year 2-5 verify 25% per year	Mapped outfalls in 80 percent of town focusing first on densely populated areas.	Complete mapping of outfalls will be accomplished by June 1, 2008.
3B	Develop Illicit Discharge Plan	DPW	Evaluate Year 1 Draft Plan Year 2 Propose adoption Yr 3 Implement Yrs. 3 to 5	Simultaneously mapped outfalls and system-wide storm and sewer structures (i.e., catch basins, manholes, pipes) for 80% of town. This will provide accurately located structures to help the town immediately and more easily implement the Illicit Discharge Detection and Elimination Program.	A draft version of the Illicit Discharge Plan has been developed for use in inspecting outfalls and will be finalized by June 1, 2008.
3D	Inform Employees, Businesses, Public	DPW	Publicize Illicit Discharge Plan (Year 3 & 5)	Published various stormwater documents on town's internet site for the public to access.	The draft version of the Illicit Discharge Plan is on the town's website and will be replaced with the final version on June 1, 2008

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
4A	Construction Site Runoff Ordinance	Planning Dept. Build Inspector	Eval Exist Regs Yr 1 Draft Revisions Yr 2 Propose for adoption in Year 3	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
4B	Erosion and Sediment Control Plan Review	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
4C	Inspection Reporting	Conservation Commission	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are under review by the Town Attorney.
5A	Post Construction Runoff Ordinance	Planning Dept.	Eval Exist Std – Yr 1 Draft Revision -Yr 2 Propose Adopt – Yr 3	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
5B	Construction Site Plan Review	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
5C	Stormwater System Maintenance Plan	Planning Dept.	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
1A	Educational Displays at the DPW Offices	DPW	1 Display in Municipal Building per year (Year 1 to 5)	Stormwater posters have been installed outside of DPW Offices in the Municipal Office Building. Earth Day Posters in MOB & Library	Posters produced by The Think Blue Coalition. West Springfield has joined the Connecticut River Stormwater Committee
Revised					
1B	Classroom Education	DPW	DPW Classroom Presentation (Year 1 to 5)	Fausey School in West Springfield has included stormwater related topics in its curriculum.	Continue to participate in Classroom Educational Programs.
Revised					
1C	Newspaper Press Release	DPW	Press Release to local newspaper –2 per year (Year 1-5)	Press releases and articles frequently appear in the West Springfield Record and the Springfield Republican. They appear far more frequently than 2 per yr	Continue press releases and articles for the local newspapers.
Revised					
1D	Local Cable Access	DPW	Show Stormwater Video – 2 per year (Year 1-5)	Aired 30-second Think Blue PSA during prime time in July, August and September 2007 on CNN, TBS, The Weather Channel, The History Channel and CNN Headline News	Continue with public service announcements and notices, local environmental programs and lectures.
Revised					
1E	Informational Pamphlets	DPW	Develop Pamphlets and distribute with water bills (Year 1,3,5)	DISTRIBUTED WITH WATER BILLS	Informational pamphlets will be sent out with the water bills
Revised					
1F	Open House at Transfer Station	DPW	Publicize and Support Annual Event (Year 1 to 5)	Public Presentations are presented by the Connecticut River Stormwater Committee – Think Blue Campaign	The town will continue to sponsor programs and lectures which highlight the environment.
Revised	*Changed Location to Town Hall Auditorium*				

1. Public Education and Outreach (Continued)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
1G	Community Website	DPW	2 Notices per Year on local "Virtual Town Hall" website (Year 1 to 5)	NPDES Web pages are located on the Town's Website and are being updated to document the town's efforts.	The town will continue to post Stormwater and Environmental Notices on its Public Works Website.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
2A	Adopt a Road	City Council	Support "Rivive the Pride" activities in the Merrick Section – Years 1 to5	Annual "Earth Day Cleanup" activities utilize volunteer groups who help with the cleanup. These groups go along brooks and streams and remove litter and other debris.	The Town will continue to sponsor "Earth Day Cleanup Activities".
Revised					
2B	Adopt a Stream	DPW	Maintain Signage identifying stream names sponsored by volunteer groups – Years 1 to 5	During "Earth Day Cleanup" volunteers check the signs that identify the names of streams. The signs are replaced if they are damaged.	The Town will continue to sponsor "Earth Day Cleanup Activities".
Revised					
2C	Attitude Surveys	DPW	Include Stormwater Survey on Website – Years 2 & 5	West Springfield is working with the "Think Blue Coalition" through the Connecticut River Stormwater Committee.	Attitude Survey will be posted on the DPW Website.
Revised					
2D	Community Hotline	DPW	Place DPW phone number on Town Website for reporting of illicit discharges – Years 1 to 5	This BMP has been implemented with the assistance of our Computer Department.	Continue to post the Emergency Phone Numbers on the Town's Website.
Revised					
2E	Storm Drain Stenciling	DPW	Recruit volunteers for stenciling anticipated 100 catchbasins per yr	Fausey School Environmental Awareness. Curb Markers installed in the parking lot at the Middle School.	The town will continue to solicit volunteers to install curb markers at catch basins.
Revised					

2. Public Involvement and Participation (Continued)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
2F	Water Quality Monitoring	DPW	Visual Inspection of priority outfalls by volunteers, 10 per yr (Years 2 & 5)	Field inspected 83 out of 200 mapped outfalls by Tighe & Bond Consulting Engineers	Continue monitoring of water quality in streams and brooks
Revised					
2G	Watershed Committee	WRA	Support Westfield River Association, inform of DPW activities (Year 1 to 5)	The Town of West Springfield supports the activities of the Westfield River Watershed Association.	The Town of West Springfield will continue to support the Westfield Watershed Association.
Revised					
2H	Hazardous Waste Collection	DPW	Publicize annual event collecting Universal Wastes (Year 1 to 5)	Hazardous Waste Collection was conducted on September 22, 2007. 261 Vehicles registered 1.9 tons of hazardous waste collected 750 gallons of waste-oil recycled 60 propane tanks recycled 50 auto batteries recycled 1,100 ft of fluorescent bulbs collected	The Town of West Springfield will continue to conduct Hazardous Waste Collections in the early fall of each year.
Revised					
2I	Wetlands Planting Remove invasives	DPW	Recruit volunteers for wetlands improv-ments (Year 1 to 5)	Local volunteer groups help with Earth Day Cleanup. Debris is typically removed from local wetland habitats. Earth Day Cleanup was organized by DPW and Conservation Commission and picked up 3 tons of litter, 1.4 tons of bulk waste and 67 tires, 22 tires with metal rims	West Springfield will continue to support local conservation groups thru town sponsored activities.
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) **Tighe & Bond Consulting Engineers for 3A, 3B & 3E**	Planned Activities – Future Permit
3A	Mapping Stormwater Outfalls	DPW	Develop map of stormwater outfalls, Year 1 Field inspect, Year 2-5 verify 25% per year	Mapped outfalls in 80 percent of town focusing first on densely populated areas. Field inspected 83 out of 200 outfalls. Unable to inspect 51 outfalls due to unsafe conditions, poison ivy, brush, etc.	Mapping of outfalls will be completed by June 1, 2008.
Revised					
3B	Develop Illicit Discharge Plan	DPW	Evaluate Year 1 Draft Plan Year 2 Propose adoption Yr 3 Implement Yrs. 3 to 5	Simultaneously mapped outfalls and system-wide storm and sewer structures (i.e., catch basins, manholes, pipes) for 80% of town. This will provide accurately located structures to help the town immediately and more easily implement the Illicit Discharge Detection and Elimination Program.	A draft version of the Illicit Discharge Plan has been developed for use in inspecting outfalls and will be finalized by June 1, 2008.
Revised					
3C	Non- Stormwater Ordinance	Planning Board / DPW	Evaluate Year 1 Draft Plan Year 2 Propose adoption Yr 3 Implement Yrs. 3 to 5	Ordinance was adopted April 19, 2005 It has been implemented	DONE
Revised					
3D	Inform Employees, Businesses, Public	DPW	Publicize Illicit Discharge Plan (Year 3 & 5)	Published various stormwater documents on town's internet site for the public to access.	A draft version of the Illicit Discharge Plan has been developed for use in inspecting outfalls and will be finalized by June 1, 2008. Draft version is currently on website.
Revised					
3E	Video Inspection	DPW	Conduct as needed in conjunction with BMP #3B (Years 1 to 5)	Video Inspections and dye testing have been performed in conjunction with the mapping of storm drain systems.	Video inspections and dye testing to be performed as needed to determine connectivity of storm drain systems to outfalls as illicit discharges are found.
Revised					

3. Illicit Discharge Detection and Elimination (Continued)

3F	Failing Septic Systems	Board of Health	Keep records for identification of Problem Areas (Years 1 to 5)	Health Department has records of Septic Systems. These are being entered onto the Town's GIS mapping system.	Continue to enter septic system information onto the Town's GIS mapping system
Revised					

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
4A	Construction Site Runoff Ordinance	Planning Board Build Inspector	Eval Exist Regs Yr 1 Draft Revisions Yr 2 Propose for adoption in Year 3	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					
4B	Erosion and Sediment Control Plan Review	Planning Board	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					
4C	Inspection Reporting	Conservation Commission	Enforcement under existing Regulations Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
5A	Post Construction Runoff Ordinance	Planning Board	Eval.Exst Stand – Yr 1 Draft Revision – Yr 2 Propose Adopt - Yr 3	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					
5B	Construction Site Plan Review	Planning Board	Enforcement under existing Regs Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					
5C	Stormwater System Maintenance Plan	Planning Board	Enforcement under existing Regs Yr 1-2 Enforcement under adopted ordinance Years 3 to 5	Municipal Oversight Regulations are currently in draft form.	Municipal Oversight Regulations are to be presented to the Town Council for adoption.
Revised					

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
6A	Municipal Maintenance Activity Program	DPW	Evaluate and draft additional policies as necessary, Year 1. Comply, Yrs 2-5	DPW maintains 17 parks and ball fields – trash is picked up on a daily basis. Vehicle fleets inspected monthly and oil changes done on a regular basis Catch basins are cleaned as there is a route established to clean them all.	Continue the effort established in previous years
Revised					
6B	Employee Training	DPW	Initial Good Housekeeping training Year 1. Annual Refresher Yrs 2-5	Employees are trained in the Municipal Maintenance Activity Program.	Continue the effort established in previous years
Revised					
6C	Catchbasin Program	DPW	Clean 50% of Catchbasins per year	100% of the catchbasins were cleaned this year. Collected materials were composted for beneficial use at the Springfield Yard Waste Composting Facility	Continue the effort established in previous years
Revised					
6D	Street Sweeping	DPW	Sweep Streets once per year and Business Districts monthly, spring thru fall Yrs 1-5	The DPW swept the entire town once this year. Downtown and main arterial routes were swept an additional 4 times. Street sweepings were composted for beneficial use at the Springfield Yard Waste Composting Facility.	Continue the effort established in previous years
Revised					
6E	Road Salt Program	DPW	Employee Training at Salt-Institute, Yr. 1 Investigate alternative chemicals Yrs 2-5	DPW is continually investigating alternative snow and ice control techniques.	Continue the effort established in previous years
Revised					

6. Pollution Prevention and Good Housekeeping in Municipal Operations (Continued)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
6F	Lawncare and Pest Control	DPW	Train 2 Employees for application of controls Yr 1 Implement Practices Yrs 2-5	Continue the effort established in previous years.	Continue the effort established in previous years
Revised					
6G	Stormwater Pollution Prevention Plan / MSGP at the City Garage (Town Yard)	DPW	Implementation of SWPPP, Year 1. Comply, yrs 2-5	Plans are being prepared to renovate 4 bays of the existing DPW Garage for use as state of the art repair facility. The town has abandoned plans to build a new facility.	Renovate existing DPW Garage to improve it's functionality in FY 2009.
Revised					
6H	Used Oil Recycling	DPW	Continue collection and recycling, Years 1-5.	In 2007 the town collected for recycling 750 gallons of used motor oil.	Continue to collect and recycle used motor oil
Revised					
6I	Illegal Dumping	DPW	Pickup of dumped waste, Yrs 1-5	The DPW continues to pick up illegally dumped materials in the following areas: Agawam Ave, Bear Hole Reservoir, Circuit Ave, Palmer Ave, Old Westfield Road and 7.2 miles of earthen dike. Earth Day Cleanup was organized by DPW and Conservation Commission and picked up 3 tons of litter, 1.4 tons of bulk waste and 67 tires, 22 tires with metal rims	Continue with the effort established in previous years. Installation of a surveillance camera on Agawam Avenue to detect violators.
Revised					

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Permit
7A	TMDL for the Connecticut River	DPW, Planning, Health, Bldg Departments	Completion of BMP's under all of the Six Minimum Control Categories	Refer to previous BMP's	
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

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, 2007 through March 31, 2008)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	($)	$ 229,441
Total program expenditures since beginning of permit coverage	($)	$ 535,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	95%
Stormwater management committee established ***(Connecticut River Stormwater Committee)***	(y/n)	Y
Stream teams established or supported	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	Y
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	361
▪ material collected **	(tons or gal)	3.9 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				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	(%)	80%
Estimated or actual number of outfalls	(#)	200
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	30%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	83
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	83
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	(%)	95%
% of population on septic systems	(%)	5%

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 %)	0
Fines collected **	(# and $)	0
Complaints/concerns received from public **	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
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)	1 time/year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	5 times/year
Qty of structures cleaned **	(#)	Approx 2900
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	965 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	compost

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	($)	$ 54,303
• Hourly or per basin contract rate **	($/hr or $ per basin)	
• Disposal cost**	($)	$ 0.00
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	1
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vactor **	(%)	

	(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)	4
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	2,700 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	($)	$ 56,753
• Hourly or lane mile contract rate **	($/hr. or ln mi.)	$ 585 / mi
• Disposal cost**	($)	$ 0.00
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	Y
• % 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 %)	N/A
▪ Herbicides *By Contract 7.2 miles of earthen dike has vegetation control*	(lbs. or %)	
▪ Pesticides	(lbs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented	(y/n)	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	45% 5% 50%
Pre-wetting techniques utilized **	(y/n or %)	N
Manual control spreaders used **	(y/n or %)	N
Zero-velocity spreaders used **	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	0%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	0%
% of salt/chemical pile(s) covered in storage shed(s)	(%)	0%
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	N

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	N
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	Y
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	N

West Springfield: NPDES Compliance for goals 2F, 3A, and 3B

The town has modified its original performance goals 2F, 3A, and 3B with regard to visually inspecting priority outfalls, mapping outfalls, and developing an illicit discharge and detection plan. The new approach as described below will allow the town to more accurately and efficiently investigate illicit detections and then implement appropriate elimination actions. The original schedule for implementing these three performance goals has also changed but the overall objective is still met by the end of Year 5.

The town's initial approach involved creating a basic map of outfalls using GPS and inspecting the outfalls. If an inspected outfall showed any signs of illicit discharge, the town would then develop and implement its illicit discharge plan. To investigate illicit discharges, the town would need accurate maps of the storm and sewer systems to trace upstream the source of an illicit discharge.

With adequate financial funding in place, the town decided to simultaneously map outfalls and the entire storm drain and sanitary sewer systems. Mapping the entire systems (i.e., pipes, manholes, catch basins, other structures) involved creating digital flow maps from outdated engineering plans. Once these plans were in digital map format, field crews began to survey and digitally update outfall locations and upstream flow connections. The town investigated any undetermined connections from field work with dye and video testing. Ten areas were dye tested, three areas were water jetted, and 2,600 linear feet of storm drains were videoed. The town piloted these efforts in an older urban part of town and adopted a similar approach that was carried through year 5.

As the storm and sewer systems were being mapped, the town GPS'ed and inspected 83 outfalls for the presence of non-storm water discharges in Year 5. After the town maps the remaining storm sewer and sanitary systems in this upcoming year, the remaining outfalls will also be GPS'ed and inspected. Information gathered from outfall testing will allow the town to detect, locate, and eliminate illicit discharges from the storm water system. The system-wide storm and sewer maps will help provide the town the ability to trace pipe connections upstream of the outfall being investigated to help determine the source of pollutants. The town has finalized (by June 1, 2008) its Illicit Discharge Plan, however we anticipate that there may be some revisions once comprehensive inspections of outfalls commences when the town completes its system-wide mapping.

The town has invested a substantial amount of financial resources, effort, and time to map the entire storm water system in addition to outfalls. The modified schedule and goals will provide significant value-added benefits for the Illicit Discharge Detection and Elimination program.

TOWN OF WEST SPRINGFIELD

DEPARTMENT OF PUBLIC WORKS

26 CENTRAL STREET

WEST SPRINGFIELD, MA 01089

Monday - Friday
8:00 AM - 4:30 PM

Tel: (413) 263-3242
Fax: (413) 734-9745

JACK DOWD
Director

James W. Lyons, P.E.
Town Engineer

Vincent DeSantis
Deputy Director of Operations

Jeffrey R. Auer
Deputy Director of Water

Harry Hubbard
Tree Warden

Michael Pattavina
Waste Management Coordinator

Cynthia Zarichak
Office Manager

*** Sent Certified Mail ***

April 28, 2008

Ann Herrick
US Environmental Protection Agency
1 Congress Street, Suite 1100 (CIP)
Boston, MA 02114-2023

RE: NPDES PII – Small MS4 General Permit Annual Report, April 1, 2007 to March 31, 2008
City of West Springfield, Massachusetts

Dear Ms. Herrick:

On behalf of the Town of West Springfield, please find enclosed the NPDES Phase II Stormwater General Permit Annual Report for the period of April 1, 2007 to March 31, 2008 for the City of West Springfield, Massachusetts.

If you have any questions regarding this information, please contact me at (413) 263-3249. Thank you for your attention in this matter.

Sincerely,

James W. Lyons, P.E.
Town Engineer

Enclosure
Copy: Mayor Gibson
Jack Dowd, DPW Director
File