

(04)



Municipality/Organization: City of Lawrence

EPA NPDES Permit Number: MA R 041201/MA DEP

MaDEP Transmittal Number: W- 036114

Annual Report Number & Reporting Period: March 03 - March 04

NPDES PII Small MS4 General Permit Annual Report

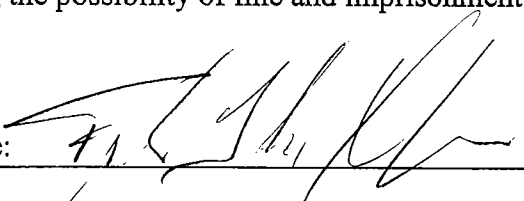
Part I. General Information

Contact Person: Frank McCann, Jr. **Title:** Director of Public Works

Telephone #: 978-794-5762 **Email:**

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: Frank McCann, Jr.

Title: Director of Public Works

Date: 8/15/05

Received
8/17/05
CIP-Murphy

Part II. Self-Assessment

The City of Lawrence has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Permit Year 2
1-A Revised	Classroom Education	DFW	Annual Presentation Created Poster	Recycling Coordinator visited each school & gave presentation on keeping our water supply safe.	School visits and neighborhood association presentations.
1-B Revised	Educational Displays	DFW	Raise Public Awareness	People are reporting possible violations. Stenciling program begun.	Work with non-profit groups to continue stenciling & information distribution.
1-C Revised	Newspaper Articles	DFW	Make Public Aware	Ground Works Lawrence has had articles in local papers on proctering our rivers.	Continue to sponsor & aid in River clean-ups & other programs by non-profit agencies.
1-D Revised	Local Cable Access	Mayor	Continue the educational aspect	No programming produced that specifically targeted safe water supply	Attempt to create a rprogram that is specific.
1-E Revised	Mailing Brochures	DFW	Raise Awareness	Brochure was hand distributed by Ground Works Lawrence.	Non-profit groups are combining resources to promote program.
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
2-A Revised	Community Hot Line use, existing phone #'s.	Inspectional Services	Increase Public Participation	Increase in calls reporting illegal dumping & discharge of oils onto Streets.	Continue to respond to calls & issue fines.
2-B Revised	Neighborhood Meetings	DPW Recycling Coord.	Present the Problem	Recycling Coordinator met with each group & gave a presentation	Continue to visit the groups & give lectures.
Revised					
Revised					
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
3-A Revised	Mapping Outfalls	DPW EPA	Locate Discharges	Locate & identify any potential problems.	
3-B Revised	Detection	DPW	Identify Illicit Discharges.	EPA report does not indicate any	
3-C Revised	Ordinance	City Council	Produce Ordinance	Council began crafting ordinance but referred to City Attorney for input.	Determine if ordinance is necessary.
Revised					
Revised					
Revised					
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) -- Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Permit Year 2
4-A Revised	Site Plan Review	Engineering	Site Runoff Control	All plans are reviewed & those which have space are required to create ground water recharge.	Continue requesting ground water recharge where feasible.
4-B Revised	Ordinance	City Council	Reduce Runoff	No ordinance has been crafted as yet.	Produce ordinance and modify building codes for it.
Revised					
Revised					
Revised					
Revised					
Revised					

4a. Additions

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Permit Year 2
5-A Revised	Design Standards	Engineering	Decrease Runoff	Ground water recharge is requested when ever possible.	Continue to request recharge
5-B Revised	Site Inspection	DPW Plumbing Insp.	Design Compliance	All systems inspected and signed off by Plumbing Inspector.	Continue program
Revised					
Revised					
Revised					
Revised					

5a. Additions

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Permit Year 2
6-A Revised	Employee Training	DPW	Improve House Keeping	Separate enclosed area for oil collection built. Oil, Fluid spill handling changed.	Continue to review day to day process & improve as needed.
6-B Revised	Catch Basin Cleaning	DPW	Sediment Control	New machine assigned to daily cleaning program across the City.	Continue systematic cleaning program.
6-C Revised	Street Sweeping	DPW	Remove Pollutants	Sweeping Program expanded to full time days.	Regular daily sweeping on a daily schedule.
Revised					
Revised					
Revised					

6a. Additions

6-D	Street Sanding	DPW			Reduction in quantity and frequency.

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

A mapping program sponsored by Merrimack Valley Planning Commission for the Shawsheen River was conducted. Ground Works Lawrence began a stenciling project for systems discharging into the Spicket River.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	(\$)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	30%
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	2 miles
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1 per year
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

Regulatory Mechanism Status (indicate with "X")	In Place Prior to Phase II	Under Review	Drafted	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

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	103
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	100
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	103
Illicit discharges identified	(#)	0
Illicit connections removed	(#)	
	(est. gpd)	
% of population on sewer	(%)	100%
% of population on septic systems	(%)	

Construction

Number of construction starts (>1-acre)	(#)	0
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	90
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100
Site inspections completed	(# or %)	0
Estimated volume of stormwater recharged	(gpy)	varies

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	2
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	4
Total number of structures cleaned	(#)	4000
Storm drain cleaned	(LF or mi.)	0
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	1,000 T
Disposal or use of screenings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	(\$)	\$50,000

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	52
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Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	52
Qty. of sand/debris collected by sweeping	(lbs. or tons)	705,19 T
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Lunenburg
Cost of sweepings disposal	(\$)	\$50,000
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	N/A
▪ Herbicides	(lbs. or %)	N/A
▪ Pesticides	(lbs. or %)	N/A

Anti-/De-Icing products and ratios	% NaCl	75%
	% CaCl ₂	
	% MgCl ₂	
	% CMA	
	% Kac	
	% KCl	25%
	% Sand	
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	0
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	N