1089 04

Municipality/Organization: Town of Avon

EPA NPDES Permit Number:

MaDEP Transmittal Number: W-

Annual Report Number & Reporting Period: **No. 1: March 03-March 04**

APR 29 2004

MUNICIPAL ASSISTANCE UNIT

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: JOHN GROULX Title: EXECUTIVE SECRETARY

Telephone #: 508-588-0414 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: JOHN A. GROULX

Title: EXECUTIVE SECRETARY

Date: APRIL 27, 2004

Part II. Self-Assessment

NPDES PII AGREEMENT SIGNED IN OCTOBER 2003. Though we maintain an agressive yearly maintenance schedule cleaning basins, reconstructing Basins (12+ reconstructed last year) and street sweeping our primary goals in FY 04-05 must be an analysis of the drainage at our Highway garage which is directly adjacent to our Porter well and pump station, an agressive enforcement of known illicit discharges into our storm drainage system and educating the public in stormwater management. As a small Town, with limited resources, we must continually prioritize our goals to meet our obligations but work within our limited resources.

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
Revised	Stormwater Impact Mailer	Executive Secretary	N/A	Have not begun Project	
Revised	School Stormwater Science Project	Avon School Department	N/A	Have not begun Project	
Revised	Stormwater on Local Cable Access Channel	Executive Secretary	N/A	Will schedule in near future	
Revised	Youth Stream Clean-up	Executive Secretary	N/A	Will schedule in near future	
Revised					
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
Revised	STORMWATER MANAGEMENT TASK FORCE	Executive Secretary	N/A	will work with Board of Health	
Revised	Publicity for STORMWATER Related ARTICLES/HEARINGS	Executive Secretary		NO ARTICLES PROPOSED AT Annual Town Meeting May, 4. 2004	
Revised	SCIENCE CONTEST BUSINESS ASSOCIATION	BUS. ASSOCIATION/ Executive Secretary	N/A	will work w/ School Committee	
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
Revised	Map Stormwater Sewer Infrastructure	Operations manager		Have hand written maps need to process onto GIS, Currently Exploring vendors	
Revised	Education Flier Good Housekeeping Practice	Board of Health	N/A	Not undertaken as yet	
Revised	Illicit Discharge Hotline	Operations manager		Operates through Town Hall	
Revised	Illicit Discharge By-law	Planning Board			
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
Revised	Construction Site E+SC By-law	Planning Board		Not undertaken as yet	Formation of A By-law Committee
Revised	Site Plan Review Amendment	Planning Board		Not undertaken as yet	" "
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
Revised	Stormwater management By-law	Planning Bd		Not undertaken	Formation of By-law Committee planned
Revised	Site Plan Review Amendment	Planning Bd		Not undertaken	" "
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
Revised	Annual Street Sweeping	Highway Dept	Completed Apr. 1 2004 Overall Sweeping	Completed April 2004	Will perform in April 2005
Revised	Annual Catch Basin Clean-out	Highway Dept	FY2004 Cleanings to be completed	Will Complete Fall 2004	Will perform in April 2005
Revised	Env. Assessment of Highway Garage	Operations Manager	N/A	Seeking Environmental Engineer to conduct study of Garage Drainage	Hire Engineer To Begin Study
Revised	Highway/Water Dept Good Housekeeping Educ.	Operations manager	N/A		Need to institute a training plan
Revised	Env. Assessment of Municipal facilities	Operations manager	Conducting Condition Analysis of Town Bldgs	Feasibility Study of Town Bldgs. Undertaken includes Condition Analysis + Septic Review	Condition analysis to be complete June 2004
Revised					

6a. Additions

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	Trout Brook		Have not assessed water quality	Active w/ Brockton on area below Avon water well #1 ~~[illegible]~~ in maintaining water quality	engage Town of Holbrook re gravel pit erosion in area flowing to Trout Brook
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Gravel Pits in Town of Holbrook have not been addressed.

Town aggressively pursuing clean-up of Quinn freight property in Brockton which shows waste oil + gasoline plumes migrating toward Trout Brook. Private developer has since capped old landfill @ Hercules Disposal location adjacent to Quinn freight. Monitoring wells in place. must pursue local clean up efforts in Avon to limit [illegible]

Part IV. Summary of Information Collected and Analyzed

Highway Department Records, Site Plan Documents for Brockton Development, meetings, discussions re Water quality, Sweeping/Catch Basin Contracts.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	NO
Annual program budget/expenditures	($)	Ø

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	NO
Stream teams established or supported	(# or y/n)	NO
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	N/A
Household Hazardous Waste Collection Days HELD IN CONJUNCTION with Town of RANDOLPH, MA		
▪ days sponsored	(#)	1
▪ community participation ~Total Avon only NOT REGISTERED	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	NO

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	10%
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	25%
Mapping method(s)		
▪ Paper/Mylar	(%)	75%
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened + cleaned	(# or %)	2
Illicit discharges identified	(#)	2
Illicit connections removed	(#) (est. gpd)	Ø
% of population on sewer	(%)	1%
% of population on septic systems	(%)	99%

Construction

Number of construction starts (>1-acre)	(#)	Ø
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	(#)	0

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	Yearly
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	Yearly
Total number of structures cleaned	(#)	577
Storm drain cleaned Rebuilt	(LF or mi.)	300' Rebuilt
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		landfill
Cost of screenings disposal – included in Basin Cleaning Contract	($)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	Yearly
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	Yearly

Qty. of sand/debris collected by sweeping	(lbs. or tons)	10-12 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) Contractor takes Away	(location)	
Cost of sweepings disposal IN CONTRACTED PRICE TOTAL CONTRACT COST	($)	$20,000
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	N

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

Anti-/De-Icing products and ratios	% NaCl 20 % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand 80	4 parts sand 1 part salt mixture
Pre-wetting techniques utilized	(y/n)	NO
Manual control spreaders used	(y/n)	NO
Automatic or Zero-velocity spreaders used	(y/n)	Yes
Estimated net reduction in typical year salt application	(lbs. or %)	SAME
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	