

TOWN OF WESTFORD ENGINEERING DEPARTMENT

JOHN R. LIVSEY, P.E.
Town Engineer

PAUL M. STARRATT, E.I.T.
Assistant Town Engineer

To: John R. Livsey, P.E.

From: Paul Starratt

Re: Stormwater Phase II Illicit Discharge Testing

Date: March 28, 2006

I am pleased to report that our Illicit Discharge Detection and Elimination program has taken a significant step forward. I have attached the preliminary findings of the Westford Watershed Study for 2005 prepared by the Westford Environmental News and Action Committee (WENAC). As a reminder, WENAC is a nonprofit volunteer organization of citizens that cooperated with the Organization for the Assabet River (OAR) in a study of the following watersheds in Westford:

Keyes
 Blue/Gilson
 Stony Brook
 Butter

4. Boutwell 9. Nashoba Brook

5. Tadmuck

As you will see from the attached findings, WENAC has sampled nine (9) streams in the above referenced watersheds and tabulated test results for Ammonia, TKN, Nitrates, Ortho-Phosphorus, Total Phosphorus and Total Nitrogen. The samples were collected under OAR's EPA-approved Quality Assurance Project Plans (QAPP) and will give us a reasonable baseline for measuring the effectiveness of illicit discharge elimination.

With your approval, I will use the WENAC test results along with the new GIS outfall map to target areas of concern for the next round of dry weather outfall sampling.

E:\NPDES\Illicit Discharge Memo PMS-JRL.doc



TOWN OF WESTFORD ENGINEERING DEPARTMENT

JOHN R. LIVSEY, P.E.
Town Engineer

PAUL M. STARRATT, E.I.T.

April 5, 2006

Westford Environmental News and Action Committee (WENAC) 10 Snow Drive Westford, MA 01886 ATTN: Mr. Peter Severance

Dear Mr. Severance:

Thank you for providing the Engineering Department with a copy of the WENAC water quality report for 2005. This information will be very useful in determining priorities for illicit discharge detection and elimination.

As you are aware, the Town of Westford has filed a Notice of Intent with the EPA and MDEP as a part of the National Pollution Discharge Elimination System (NPDES). One of the requirements outlined in the NPDES permit is the determination of areas for dry weather outfall testing. Your sampling and test results will help us identify upstream locations for priority testing. Instead of relying on the trial-and-error method, your empirical data allows us to make informed decisions on where outfalls should be tested by the Town.

It is especially useful that you are teamed up with the Organization of the Assabet River (OAR) who uses an EPA-approved Quality Assurance Project Plans (QAPP). That means that the test results will give us a reasonable baseline for measuring the effectiveness of illicit discharge elimination.

Please let me know if the Engineering Department can be of assistance in the implementation of future monitoring and sampling.

Sincerely,

John R. Livsey, P.E.

Town Engineer

pms/JRL

E:\NPDES\

Municipality/Organization: Town of Westford, MA

EPA NPDES Permit Number: MAR05C490

MADEP Transmittal Number: W-035577

Annual Report Number
& Reporting Period: No. 3: May 1, 2005-April 30, 2006

NPDES PII Small MS4 General Permit Annual Report

10.37

Part I. General Information

Contact Person: Paul Starratt	Title: Assistant Town Engineer
Telephone #: 978-399-2716	Email: pstarratt@westford.mec.edu

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.

Part II. Self-Assessment

conditions, except for the following: permit eligibility with respect to endangered species and historic places. The Town has completed 85% of mapping stormwater outfalls and begun the permit process for compliance with the Natural Heritage and Endangered Species The Town of Westford has completed the required assessment and determined that our municipality is in compliance with all permit Program and the Massachusetts Historical 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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
14	Stormwater Flyer for Residents	SuAsCo & Westford DPW	Flyers distributed to 75% of residents, compiled & considered "survey" results.	Flyers were mailed in year 1 to all residents. The same flyers were placed on display at the Town Hall.	Continue displaying flyers at public places.
Revised		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
1B	Lesson Plan for 5 th Graders	SuAsCo & Westford DPW	Develop & distribute lesson plan, teach in one or more grade 5 classes	The Westford Engineering Department continued to use the SuAsCo curriculum "Stormwater Matters" to	The Westford Engineering Department has elected to continue the lesson plan on an annual basis
Revised			Continued beyond Year 2 based on success of program.	grade 5 classes during the 2006 Living Lab program.	With assistance from local schools.
10	Stormwater Flyer for Businesses	SuAsCo & Westford DPW	Flyers distributed to 50% of businesses, stormwater logo displayed by 25% of businesses.	Received Media Toolkit in April 2006. Press releases will be distributed to local media in Year 4 reporting period. Board of Selectmen will be consulted for appropriate and of Selectmen will be consulted	Press release prepared by SuAsCo Stormwater Community Assistance Program.
Revised	Media Toolkit and Stormwater Powerpoint program		Year 3 product changed by SuAsCo to Media Toolkit in place of business flyer.	Matters" banner supplied by SuAsCo for display in Year 4.	

2B	Poster Contest for Fifth	SuAsCo &	Poster contest is held	The stormwater poster contest was	NOT enseified to complete this DMD
	Grader	Westford DPW	and entries are	introduced as part of the "Stormwater	in Permit Year 2. Completed in
· ·			received, judged and	Matters" lesson plan that was taught to	
Revised			displayed in year 2.	all grade 5 classes in April 2005.	
3	זייי בייייי אייייי איייייי איייייייייייי) -	Beginning of year 3.		
20	Poster Contest for High	SuAsCo &	Poster contest is held	NOI specified to begin this BMP in	No further activities are planned
	Schoolers	Westford DPW	and entries are		are prainted.
			received, judged and		
Revised		Eliminated	displayed in year 3.		
		Eliminated			
		from Year 3			
		product by			
		SuAsCo.			
2D	Local Stormwater	SuAsCo &	Hold local multi-	NOI specified to begin this BMP in	NOI marified to have all a page.
	Summit Event	Westford DPW	community summit in		Permit Year 4.
Revised					
2E	Stormwater Super	SuAsCo &	Municipal	NOI specified to begin this BMD in	NOT THE STATE OF T
	Summit Event	Westford DPW	participation in the Super Summit,	Permit Year 5.	Permit Year 5.
			stormwater "survey"		
			to 75% residents,		
			compiled &		
Revised			considered results.		
35	Cut.il B. II	,			
71	Curbside Recycling	Department of	Continued Town	Curbside recycling was picked up every	Continue program for permit years
Revised		Public Works	service.	other week.	3-5.
36	In Town HUM Dags				
į	off	Public Works	ner year	A household hazardous waste	Hold one HHW event and track
Revised			Por Jour	Collection event will be neighbor the Fall	waste quantities received.
1110	THIRTY D		Every other year.	of 2006.	
HZ	HHW Drop-off in	Department of	Advertise service on	This service is no longer available to	No further activities are planned.
	FCVIIIBIOII	Public Works	in flyers	residents.	
Revised					
21	Leaf Drop-off at	Department of	Continue service of	Leaf drop off was made available at	Continue to advertise the leaf dron
	Laughton's Nursery	Public Works	leaf drop-off.	Laughton's Nursery, but a fee was	off service on the Town website and

29. No	Kevised	20	Revised	2N	Revised	2M	Revised	2L	Revised	2K	Revised	23	Revised
29. No additions at this time	Procedure to Address Public Comment	Stormwater Contact		Public Meetings		Mercury Drop-off at Multi-Collection Event		Mercury Drop-off at Board of Health		Multi-Collection Events		Brush Drop-off in Westford	
Þ		Highway Department		Department of Public Works		Department of Public Works		Board of Health		Dep't of Public Works/Board of Health		Department of Public Works	
	Record of calls and issues addressed.	Establish contact and include information in pamphlets and on the Town's website.	stormwater.	Advertise and hold at least one public		Hold one multi- collection event twice per year.		Collect mercury devices in the Board of Health office daily.		Hold one multi- collection event twice per year		Hold one collection in April and October.	Advertise on the Town website and in flyers.
	website.	The Town Engineer was identified as the stormwater contact regarding pollution and complaints in Year 1. Information was posted on the Town's	a seleculen s meeting.	The progress of the Stormwater Management Program was discussed at		Two multi-collection events were held to collect small mercury-containing devices.		The Board of Health office was open daily to receive mercury-containing devices	AN TOOMS	Two multi-collection events were held to collect small mercury-containing	October.	Four collection events were held	
	in educational pamphlets. Track stormwater calls and issues	Update information as needed and continue to include stormwater contact information on the Town's website. Include contact information		Hold a public meeting to inform residents of the stormwater program.		Hold at least two collection events.		Continue mercury drop-off program.		Hold at least two collection events.		Hold at least two collection events.	

3. Illicit Discharge Detection and Elimination

		#	3	BMP
			Prince and appropriate to the second	BMP BMP Description
	Name	Dept./Person	Meanurance	Pernancible
			Measurable Goal(s)	Mossinghia Coolis
indicated, if any)	(Reliance on non-municipal partners	Permit Year 3	Progress on Goal(s) –	
		Permit Year 4	Planned Activities -	

Revised	3E	Revised	1 1 1 1 1 1 1	3D					Revised	! ! ! ! !	3C	Nevised	Daniel	CIC	2B	Kevised		3A
	Illicit Discharge Education for Municipal Employees		Education for Public	Illicit Discharge	Assabet River (OAR).	Organization for the	and Action Committee	Environmental News	Partner with Westford	Elimination Plan	Detection &			IIICII DISCHAIge Bylaw				Storm Sewer Map
	Highway Department		Works/ Highway/ Water/ Board of Health	SuAsCo/Public						Department	Highway		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Engineering/ Conservation			Department/ GIS	Highway
	Education for employees under BMP 6H.		education under Control Measures 1 and 2.	Continued public	discharges.	inspections and	problems for	known water quality	Prioritize areas of	each year in 4 divided sections of Town.	Screen 25% of outfalls		in year 5.	Present draft bylaw to public in year 4, adopt			verify all outfalls by year 5.	Expand and field
on December 14, 2004 (see also BMP 6H).	Information on illicit discharge detection and elimination was discussed at the DPW training session		discharges was incorporated into BMPs under Control Measures 1 and 2.	Public education information for illicit		Quality Report.	from Stream Team testing and Water	priorities for detection using results	the Assabet River (OAR) to develop	News and Action Committee (WENAC) and the Organization for	Partner with Westford Environmental	Prohibition to Town departments and begin the bylaw development process.	requirements for Illicit Discharge	A kick-off meeting was held on August 9, 2004 to introduce the Phase II	in GPS data gaps by Comprehensive Environmental Services, Inc.	program was conducted to identify	85% in GIS based on recent aerials and planimetrics. A field manning	The storm sewer map was updated to
	Continue municipal employee training program.		efforts and update illicit discharge information as needed or as new information arises.	Continue existing public education	illicit discharges in high priority areas	Continue inspecting outfalls for	Detection and Elimination activities.	strategy for Illicit Discharge	Develop a protocol and written	remove known illicit discharges.	Complete source investigations and			Present draft bylaw to public.		storm sewer base map by Year 5.	program will be integrated with	The results of the field manning

4. Construction Site Stormwater Runoff Control

Kevised	4E	Revised	4D	Revised	<u></u>	Revised	4B	Revised	4A		Ę	# 61417
	Site Inspection & Enforcement		Site Plan Review Procedures		Erosion, Sediment & Waste Controls		Construction Site Runoff Bylaw		weilands Bylaw			DIVIT Description
	Engineering/ Planning/ Conservation		Engineering/ Planning/ Conservation		Engineering/ Planning/ Conservation		Engineering/ Planning/ Conservation		Conservation Commission		Name	Responsible
	Records of current enforcement actions, site inspection procedures for all land disturbance >1 acre.		Improved site plan review procedures in year 4.		Copies of meeting minutes and memos. Improved site controls in year 4.		Present draft bylaw to public in year 4, adopt in year 5.	,	Continue to implement existing Wetlands Bylaw.			Measurable Goal(s)
	Construction sites subject to the Wetlands Bylaw were inspected on a regular basis by the Conservation Commission. Site inspection and enforcement procedures to comply with the Phase II requirements were discussed at the August 9, 2004 kick-off meeting.	and or mooning.	Site plans are currently reviewed by the Engineering Department and Conservation Commission for erosion and construction site runoff BMPs. Additional site plan review criteria were discussed at the August 9, 2004 kick-off meeting.	O	Methods to address erosion, sediment and waste controls at construction sites were discussed at the August 9, 2004 kick-off meeting	Runoff to Town departments and begin the bylaw development process.	A kick-off meeting was held on August 9, 2004 to introduce the Phase II requirements for Construction Site	Townson by the T made ANGUARIOUS.	The Town of Westford Conservation Commission enforced the Westford Westlands Rylaw and Recordations	indicated, if any)	Permit Year 3 (Reliance on non-municipal partners	Progress on Goal(s) –
	Hold progress meetings, evaluate site inspection and enforcement procedures, options, checklists and incorporate into the draft bylaw for Construction Site Runoff.		Hold progress meetings, evaluate site plan review criteria and incorporate into the draft bylaw for Construction Site Runoff.	Numon.	Hold progress meetings, evaluate controls and incorporate into the draft bylaw for Construction Site		Hold progress meetings to develop a draft bylaw by the end of year 4.		Continue enforcement of Wetlands Bylaw and Regulations.		Permit Year 4	Planned Activities –

4	₽;	4. 1.
S N	evised	ਾਂਸ਼
49. No additions at this time	Revised Procedure to Address Public Comment	Construction Site Contact
		Highway Department
	pamphlets and on the Town's website. Record of calls and issues addressed.	Establish contact and include information in
	pollution prevention, complaints and construction runoff in Year 1. Information was posted on the Town's website. construction runoff in Year 1. website. Include contact information on the Town website.	Establish contact and include information in the stormwater contact regarding
audi esseu.	contact information on the Town's website. Include contact information in educational pamphlets. Track stormwater calls and issues	Update information as needed and continue to include stormwater

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

VCAISON	Periced		φ.	SC L	ļ		Revised			SBS	ļ	INCARACI	Paricad		JA P			Ę	# # E
			& Maintenance	Long-Term Operation		EIVE ECSTER STATIONALOS	MP Design Standards		Structural BMPs	Structural & Non-				Kunon Bylaw	Post-Construction Site				DIVIT Description
		Conservation	Planning/	Engineering/				Conservation	Planning/	Engineering/			Conservation	Planning/	Engineering/		Name	Dept./Person	Responsible
		required for new and redevelopment	and procedures	O&M Plan/template			TO COLLOS CO.	Westford	checific to the Town of	BMP design standards			in year 5.	public in year 4, adopt	Present draft bylaw to				Measurable Goal(s)
		August 9, 2004 kick-off meeting.	maintenance were discussed at the	Methods to address BMP operation and			NICK-OII IIIEEIIIIg.	land discussed at the August 9, 2004		BMP design standards were introduced	begin the bylaw development process.	Site Runoff to Town departments and	requirements for Post-Construction	9, 2004 to introduce the Phase II	A kick-off meeting was held on August	indicated, if any)	(Reliance on non-municipal partners	Permit Year 3	Progress on Goal(s) -
	bylaw for Post-Construction Stormwater Management.	methods for long-term effectiveness.	BMP O&M Plans, templates and	Hold progress meetings and evaluate	bylaw for Post-Construction Stormwater Management	Incorporate results into the draft	desirable by the Town of Westford.	BMPs and design standards	zioia brogress mecangs and evaluate	Hold progress meetings and evaluate				draft bylaw by the end of year 4.	Hold progress meetings to develop a			Permit Year 4	Planned Activities –

			Revised			SD
					Procedures	Structural BMP Implementation
					Conservation	Engineering/
***************************************	minutes and memos	Copies of meeting		BMPs are installed properly.	procedures to ensure	Inspection and
				2004 kick-off meeting.	specifically discussed at the August 9	Methods to address BMP
			Management.	results into the draft bylaw for Post-Construction Stormwater	methods to inspect and enforcement	Hold progress meetings and evaluate

6. Pollution Prevention and Good Housekeeping in Municipal Operations

Revised	Ð	Revised	6C	Revised		В) Kelling	Danisad		6A		ID#	BMP
	Used Oil is Recycled		Sand/Salt Covered		G	Sweening				Catch Basin Schedule			BMP Description
	Highway Department		Highway Department		r dollo W OINS	Department of			Department	Highway	Name	Dept./Person	Responsible
	Waste oil recycling at the Highway Facility is permitted.		Sand and salt storage is covered.		year.	Sweep streets a		locations for cleaning.	and prioritize	Clean all actab basing			Measurable Goal(s)
	The Highway Department maintained permit compliance for the waste oil heater and recycling operation.		Sand and salt storage was covered.			All streets were swept twice in town.	cleaning to ensure proper function of the drainage system.	basins are visually inspected during	at least once and twice on hills. Catch	All 1 1	(Reliance on non-municipal partners	Permit Year 3	Progress on Goal(s) -
	Continue existing practices for waste oil recycling to maintain permit compliance.		Continue to cover sand and salt.		annually.	Continue street sweeping program	sediment data for future cleaning and maintenance priorities.	recording structure conditions and	Continue catch basin cleaning and inspection program annually Regin			Permit Year 4	Planned Activities -

Kevised	2	Revised	! ! ! !	6H	Revised	ôG	Revised	6F	Revised	6E
	Maintenance Plan	Municipal Control		Municipal Employee Training		Increase Vehicle Fueling Cover	Implement SWPPP BMPs at Garage	Implement SWPPP at		Municipal Hazardous Material Stored Inside
	Highway Department	1		Highway Department		Highway Department	Department	Highway		Highway Department
	Improved operations at municipal facilities and throughout Town.	, c	record of attendance sheet. Copy of training program	All Highway Department employees		Increase cover until new facility is constructed	and maintained. SWPPP BMPs implemented.	SWPPP implemented		All hazardous materials are stored indoors
municipal operations. The Town began work to develop a Beneficial Use Determination (BUD) for the reuse of stormwater residuals.	Municipal facilities are evaluated on a regular basis for pollution issues. Work began to document protocols for	Highway Department employees.	Informal spill prevention, control and countermeasure (SPCC) training was conducted on a monthly basis with	The Highway Department was trained on December 14, 2005 for pollution	compresse III 2003.	No progress has been made on this task to date since the new facility will be	implemented BMPs outlined in the Garage SWPPP.	The Highway Department		The Highway Department stored all hazardous materials indoors.
Begin compiling a draft Municipal Operation and Maintenance Plan and continue to develop a BUD for stormwater residuals.	Evaluate and document BMP evaluations and draft BMPs for municipal facilities and constitutions.		programs as appropriate.	Continue existing training programs, incorporate new topics and expand		Utilize covered fueling station at the new DPW Facility.	pollution prevention and good housekeeping.	Continue existing practices for		Continue to store all hazardous materials indoors.

6a. Addition

ID#	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
9	Mosquito Control	Engineering/	Record of improved	Through the efforts of the Central	Continue mosquito control program.
	Project & Dramage	Conservation	drainage system	Massachusetts Mosquito Control	
	System Maintenance		inspection and	Project, brush and other accumulated	
			maintenance.	debris was removed from culverts and	
7.7.5	Town of Western VIDDES BILS II I I'M	101010			

Revised
Revised

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 3 (Reliance on non-municipal partners indicated, if any)
Planned Activities – Permit Year 4

7a. No additions at this time.

7b. WLA Assessment

associated with Stony Brook will be addressed through the implementation of BMPs under the six minimum measures for Phase II, as Stony Brook in Westford is a 303d listed water that is classified as Category 5 "Waters Requiring a TMDL". Water quality concerns implementation activities throughout the permit term. The WLA Assessment will be addressed as part of the Town's SWMP, as the outlined in the Westford Stormwater Management Plan (SWMP). Stony Brook is highlighted in the Westford SWMP as a priority for TMDL study is completed for Stony Brook or those water bodies with watersheds in Westford.

Part IV. Summary of Information Collected and Analyzed

required additional work to remove non-stormwater flows. table below. Illegal dumping was observed at another outfall. The Town conducted source investigations at some locations, which for illicit discharges and dry weather flow sampling at 6 outfalls indicated 3 illicit discharges were present, as indicated in the summary Ten outfalls were identified as a high priority due to known water quality problems at receiving waters. These outfalls were screened

Water Quality Parameters			Outfall ID No.	D No.		
Charty I at attletets	-	4	7	∞	0	10
Fecal Coliform (#/100ml)	200	130.000	21,000	<100	20 000	30
E. coli (#/100ml)	<10	>20.000	5	20	<10	10
Ammonia (ma/I)				į	15	5
Ammonia (mg/L)	ND	41.1	0.714	B	20.9	0.382
Surfactants ((MBAS) mg/L)	0.095	1.00	0.05	< 0.05	0.2	N N

Chlorine (mg/L)	Fluoride (mg/L)
ND	< 0.05
ND	0.34
ďN	< 0.05
ND	< 0.05
ND	1.29
Ŋ	< 0.010

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

	r minum broßiann oudßen exbenditutes	Annual program had got formanditume	Stormwater management position created/stoffed
	(\$)	(y/n)	
	\$69,000	No	

Education, Involvement, and Training

		((((((((((((((((((((
		** Westford News and Action Committee (WENAC) & Organization for the Assahet River (OAR)
		water Department maning sent to every westford Household.
I Co. J CIACE	(J'11)	* Water Department mailing and the state of
Ves. 4th Cando	(v/n)	School culticula iniplemented
See Below	(rous or gar)	School curricula implanted d
G D .1		material collected
Year 4	(%)	
47	(0/)	• community participation
Year 4	(#)	
1	(111)	days sponsored
		The state of the s
	1	Household Hazardous Waste Collection Dave
N/A	(yn or mi.)	DAYIDAN CAMPITAN AND AND AND AND AND AND AND AND AND A
77.1		Shoreline clean-up participation or quantity of shoreline miles cleaned
Y CS++	(# or y/n)	
17- ++	(# ~= -/)	Suream teams established or supported
NO	(y/II)	Ct
11.	(1./2)	Lording area management committee established
TIOUSCHOLOS	(# 01 /0)	Ct months and the control of the con
Hancabalda*	(# or %)	Estimated that the control of the co
		Hetimoted number of recidents and 1

Legal/Regulatory

	Post-Development Stormwater Management	= Elosion & Sediment Control	Emoir of California & Elimination	Illicit Discharge Detection & Discharge	Accompanying Regulation Status (indicate with "X")	r ost-Develophient Stormwater Management	- Doot Douglamont Ot	Erosion & Sediment Control	The process of the process of the part of	Illicit Discharge Detection & Elimination	Regulatory Mechanism Status (indicate with "X")			
												Phase II	Prior to	In Place
>	4	×	×			×	>	V	×			Review	Under	
						_						Drafted		
												Adopted		

Mapping and Illicit Discharges

	(est. gpd)	
0	(#)	Illicit connections removed
4*	(#)	THE CHARGE REPORTED
10*	(# or %)	Christing Hisporical Services
85%	(%)	Outfalle inexected foregoing
050	(9/)	• GIS
	(%)	• CADD
	(%)	
		Box Of Jo
00/0		Mapping method(s)
85%	(%)	System- Wide mapping complete
	(#)	Estimated of actual number of outfalls
85%	(%)	The state of the s
	(0.1)	Outlail mapping complete

stormwater management and illicit discharge detection.

Construction

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

Post-Development Stormwater Management

 			_		
Estimated volunte of stofflingter recitation	stimated violatine of stormwistor mochanical	Site inspections completed		construction stormwater control	Estimated percentage of development/redevelopment projects adequately regulated for post-
(gpy)	(11 01 /0)	(# or %)		(10)	(%)
Not Assessed					

Operations and Maintenance

Qty. of screenings/debris removed from storm sewer infrastructure	Storm drain cleaned	I of all number of structures cleaned	Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	Average frequency of catch basin cleaning (non-commercial/non-arterial streets)
(lbs. or tons)	(LF or mi.)	(#)	(times/yr)	(times/yr)
283 tons	200 LF	2,700 approx.	$1-2/\mathrm{yr}^{1}$	1

1. Drainage structures in hilly areas are cleaned more frequently based on the rate of sediment accumulation.	Cost of screenings disposal	E de	Disnocal of like of sweenings (and fill DOTVI)
		Disposal	

		The 10wn owns I vacuum/mechanical sweeper and contracted another sweeper to complete all roads in Town.
Y	(y/n)	*The Term of the pers specified in contracts
1 owned*	(#)	Vocum street sweepers purchased/leased
	(\$)	Cost of sweepings disposal
Disposal	(location)	Cost of sweepings (landin, PO1 W, compost, beneficial use, etc.)
800 CY	(lbs. or tons)	Disposal of automic (lander) Down
2	(times/yr)	Oty of conditable of little sweeping (commercial/arterial or other critical streets)
2	(times/yr)	Average frequency of successweeping (non-commercial/non-arterial streets)
		A VATSITA TRANSPORT OF STRONG CONTRACTOR OF THE STRONG CONTRACTOR OF TH

1 CSUCIDES	Particidas	- Herbicides	TT 1.1	Fertilizers	$\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{10000}$	VEHICLE III ADDICATION ON DIPLIC 1800 OF 1 "NIVA" - postor second (61 000/3) - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(lbs. or %)	(100. 01 /0)	(The or 0/1)	(10S. OI 70)	(lha a= 0/)		
80%	00/0	7008	0%	700/		
 	L					

	Automatic or Zero-velocity spreaders used				0,	9	from trucks during de-1cing activities. On some occasions, straight salt applications are used in town. 🏽 º,	re dispensed		Anti-/De-Icing products and ratios
	(v/n)	(y/n)	(y/n)	6 Sand	% KC1	% Kac	6 CMA	% MgCl ₂	% CaCl ₂	% NaCl
- Total County	Zero Velocity	Yes	No							

Estimated net reduction in typical year salt application	(The or 0/1)	No+ 1 22222
Salt pile(s) covered in storage shed(s)	(103, OI /0)	THUL ASSESSED
Standard Charles Street	(y/n)	Yes
Siorage siled(s) in design or under construction	(y/n)	Yes