

**Municipality/Organization:** Town of Durham, NH

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**EPA NPDES Permit Number:** NHR041006

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**MaDEP Transmittal Number:** W-

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**Annual Report Number  
& Reporting Period:** No. 11: May 1, 2013 to April 30, 2014

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## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: David Cedarholm Title: Town Engineer

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Telephone #: (603) 868-5578 Email: dcedarholm@ci.durham.nh.us

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#### 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: 

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Printed Name: David Cedarholm

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Title: Town Engineer

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Date: April 30, 2014

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## Part II. Self-Assessment

The Town of Durham, New Hampshire (Town) has continued to work toward meeting goals set for 2013-14 and proceed into the 1<sup>st</sup> year of the 2003 permit. The following is an overview of the efforts performed by the Town to satisfy the Phase II requirements for all six minimum control measures.

**Public Education and Outreach** – In 2013 and 2014, the Town continued to take an active role in educating local government officials, municipal staff, and the citizens of Durham and elsewhere about stormwater management and the community's responsibilities with regard to MS4 Phase II Stormwater regulations.

The partnership between Town of Durham and the University of New Hampshire (UNH) to develop and implement an integrated watershed planning approach to non-point source pollution management is now in its second year. This approach is based on the recommendations contained in two EPA memorandums entitled *Achieving Water Quality Through Municipal Stormwater and Wastewater Plans* and *Integrated Municipal Stormwater and Wastewater Planning Approach Framework* prepared by Nancy Stoner and Cynthia Giles, and dated October 27, 2011 and June 5, 2012 respectfully. Durham is the host community to UNH, and since all of the stormwater runoff from the Town's and UNH's MS4 designated urban areas discharges into the freshwater and tidal reaches of the Oyster River the focus of this approach is a comprehensive integrated watershed management plan for the Oyster River Watershed. The Town is actively collaborating with UNH Facilities, UNH researchers, other communities in the watershed, and watershed advocates and stakeholders to promote what is being referred to as the Oyster River Integrated Watershed Plan (ORIWP). Although Durham's political boundaries also lie within the Lamprey River Watershed, the Oyster River Watershed is the focus since the Oyster River is the receiving water body of all of Durham's urban area. Outreach about the ORIWP is being conducted through innovative public participation projects, public presentations, a website, and distribution of public informational literature being circulated to local residents and the UNH student populations. Since its conceptualization in 2011, the ORIWP has gained strong local support as well as support and encouragement from EPA Region 1 and NHDES officials. The ORIWP takes a comprehensive sustainable and GREEN approach to compliance with the Town's and UNH's federal Clean Water Act obligations which stems from three (3) federal discharge permits (the Town's MS4 and NPDES Wastewater Permits plus UNH's MS4 permit). A key component of the ORIWP is the interest in

integrating these 3 permits into one single watershed based NPDES permit. The initial ORIWP focus is on reducing non-point source pollution (stormwater runoff being a significant component) within the Town of Durham, meanwhile efforts to promote the approach is already extending to other towns in the watershed through public outreach and educational activities.

To assist in developing the ORIWP, the Town and UNH hired a team of expert consultants including the firms Vanasse Hangen and Brustlin of Bedford, NH, and Woodard & Curran of Portland, ME. In addition, the UNH Water Resources Research Center and the UNH Department of Natural Resources has been retained to develop and manage a state-of-the-art water quality monitoring program that was employed throughout the Oyster River Watershed 2013. The Town Engineer and members of the consulting team have held numerous public informational events with local stakeholders to inform the public about the ORIWP, solicit interest, answer questions, and receive input. The Town Engineer and consulting team members have also been making regular appearances regionally, including Maine, Massachusetts, and New York presenting at conferences and regional meetings about the details the ORIWP and its benefits.

On a regular basis, local residents were informed about various local stormwater programs and non-point source control efforts using the Town's list-server which sends out a weekly email entitled "The Town of Durham Friday Update" to more than 2000 area residents. The local cable access channel also broadcasts regular updates on the ORIWP presented to the Durham Town Council.

The Town Engineer continues to support the Durham Planning Board with site plan reviews of proposed development project for compliance with the Town's updated stormwater management regulations which were adopted in 2010 as part of the Site Plan Review and Subdivision Regulation. These regulations strongly encourage and create incentives for developers to incorporate Low Impact Development (LID) design features into their projects. Presentations of the Planning Boards meetings are also broadcast on the local cable access television channel.

2013 marked the year that Durham's Water Ordinance, Chapter 158 of the Town of Durham Code was finally updated to include sections on water resource protection and enforcement provisions regarding illicit discharge detection and elimination (IDDE). The Town Engineer worked closely with members of the Durham Town Council to incorporate this language into the Water Ordinance update, which included 5 presentations at Durham Town Council meetings that were each televised on the local cable access channel and can be found

archived on the Town's website [www.ci.durham.nh.us](http://www.ci.durham.nh.us).

**Public Participation/Involvement** – There were multiple opportunities for public participation involving with the annual maintenance of the rain gardens constructed at local the high school and at two locations in downtown Durham. Local residents, middle school children, and a group by the name of the Portsmouth Women's Giving Circle from Portsmouth, NH collectively dedicated about 200 hours of volunteer labor performing rain garden maintenance. The "Project Stormdrain - Online Stormwater Observation Form" webpage continues on the Town's website enabling residents to easily report personal observations of the condition of stormwater system and report any water quality or system problems. This webpage gives area residents an easy opportunity to be actively involved in protecting the local waterways. Town staff and various active Town Board/Committee members and resident volunteers continue to be involved with local watershed associations, local river advisory committees, conservation commissions, and regional planning commissions that review and report on conditions and status of stormwater management within the Town and region. These groups are instrumental in monitoring the watersheds that encompass the Town and promoting responsible stormwater management. In 2011, the Oyster River was officially designated in the New Hampshire Rivers Management and Protection Program under RSA 483 and as a result a local advisory committee dedicated to the Oyster River was formed which includes representatives from both Durham and UNH.

To solicit public participation and involvement in the ORIWP, a website with the URL of <http://oysterriveriwp.com/> has been developed, which has the potential for being a powerful public outreach tool.

**Illicit Discharge Detection and Elimination (IDDE)** – No confirmed illicit discharges were detected over the past year. Town of Durham continues to annually update its Town-wide GIS stormwater management system map. As referenced above, The Town Engineer successfully completed incorporating language in the Town's Water Ordinance (Chapter 158 of the Town Code) for the protection of water resource and enforcement provisions regarding illicit discharge detection and elimination (IDDE). Durham now has the legal authority to impose fines for any illicit discharge that threatens a water body within the Town of Durham.

The Durham Assistant Engineer remain active with the New Hampshire Seacoast Stormwater Coalition (NHSSC), which is a regional coalition of municipal stormwater system managers who meet monthly to collaborate, exchange information, and share/participate in

stormwater educational opportunities. As described above, Durham maintains an online report form which is accessed through the Town of Durham's website. The online form provides a real-time opportunity for area residents to electronically report personal observations on illicit discharges immediately to Town staff.

The Town and UNH also shared in the hiring of a pair of pollution sniffing dogs and their handlers who spent a week in the region in August 2013 to perform IDDE survey. The two dogs whom were specifically trained to "sniff out" human waste spent a full day in Durham identifying possible illicit discharges using their highly sensitive olfactory abilities. A few possible illicit discharges were detected by the dogs and the Town and UNH are in the process of identifying whether these are true sources of concern. A public outreach/participation event was held during the pollution sniffing dog day, which gave local residents an opportunity to meet the dogs, learn about the importance of IDDE, and observe the dogs perform their work on about 30 grab samples that were collected from areas brooks and streams. A report was compiled and Town officials are preparing a plan to further investigate the possible issued detected by the dogs.

**Construction Site Stormwater Runoff Control** – The Town's Site Plan and Subdivisions regulations require ALL developments to provide up-to-date stormwater management facilities that do not create or contribute to water quality impairments. These regulations include incentives for development projects to incorporate LID design elements into all proposed site plans and subdivisions. The Town Engineer regularly assesses site plan and subdivision applications to ensure stormwater management compliance and that adequate best management practices (BMPs) are implemented. Due to the number of applications received by the Planning Board in 2013 and Town staff being preoccupied, engineering consultants were retained to assist in site plan reviews to ensure compliance. Training of Town staff on appropriate BMPs and proper implementation of stormwater controls is ongoing. The stormwater management requirements incorporated in the Site Plan Review and Subdivision Regulations in 2010 are helpful to further ensure compliance with current and the proposed Draft MS4 Permit requirements relative to construction site stormwater runoff controls.

**Post-Construction Runoff Control** – As stated above, current Town regulations require ALL developments to provide adequate up-to-date stormwater management facilities and provides incentives for developments to include LID design features in their stormwater management

systems and BMPs. Durham continues to work with area stormwater professionals including the UNH Stormwater Center (a local academic stormwater management research facility), who regularly assist the Town with its stormwater projects. Local developers and design engineers consistently propose innovative stormwater systems for developments in Durham with extremely high standards.

As stated above, the stormwater management requirements incorporated in the Site Plan Review and Subdivision Regulations in 2010 have been valuable in helping Durham comply with the MS4 post-construction runoff control requirements.

**Pollution Prevention/Good Housekeeping** – The Durham Department of Public Works (DPW) continues to follow through with its three year rotational maintenance plan, in which approximately one-third of the Town's catch basins are cleaned and maintained each year. And, the catch basins located in the busiest area of Durham's urban center are cleaned a minimum of every year or more frequently as needed. A minimum of 175 catch basins are scheduled to be cleaned in 2014. The Town is continuing to develop its stormwater management system Master Plan - Capital Improvement Plan (CIP). This will help to identify, prioritize, and track areas of the stormwater system that are in greatest need of improvement. Data that was collected during 2013 and 2014 is being incorporated into the Stormwater Master Plan CIP program. The Town maintains an aggressive street sweeping program in which all downtown streets are swept at least weekly and other areas are swept at least quarterly. The Town purchased a new state-of-the-art street sweeper in 2012, which replaced a much older model and enables the Town to more effectively and efficiently remove sediment and particulates from the streets of Durham. In addition, all repairs and maintenance of stormwater structures within the MS4 area are performed with public works staff using updated BMPs and materials.

### Part III. Summary of Control Measures

#### 1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Person	Measurable Goal(s)	Progress on Goal(s) for 2013 – 14	Planned Activities for 2014 – 15
1 Revised X	Develop Educational Resources	Town Engineer and Assistant Engineer	Provide new information and educational opportunities.	DPW Publishes information on stormwater issues and provides opportunities for area residents to participate in the annual construction and maintenance of rain gardens.	Provide more opportunities for area residents to participate in the rain garden projects. Publish more information on the benefits and uses of rain gardens and rain barrels.
2 Revised	Implement Educational Activities	Town Engineer and Assistant Engineer	Broadcast Stormwater related program on local cable TV network	The Town Broadcasted the Planning Board meetings and public hearings relative to developments proposing and implementing innovative stormwater BMPs.	Continuation of public programs and continue publishing stormwater tips and program updates in DPW Newsletters
3 Revised X	Storm Drain Stenciling	Town Engineer and Assistant Engineer	Apply stencils and medallions near catch basins.	A local school group installed stencils and on a series of catch basins in the downtown area.	The Town plans to work with more local school groups installing stencils and medallions on catch basins throughout Town.
4 Revised X	Presentations	Town Engineer	Oyster River Integrated Watershed Management Plan	The Town Engineer and the integrated watershed consultant team gave numerous public presentations in Durham, throughout the region, including Maine and New York, regarding Durham and UNH's efforts to develop and implement the Oyster River Integrated Watershed management Plan.	Continue to educate the public the Oyster River Integrated Watershed Management Plan

## 2. Public Participation/Involvement

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Person</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) for 2013 – 14</b>	<b>Planned Activities for 2014 – 15</b>
1 ----- Revised X	Create Citizen Committee/ Organization	Assistant Town Engineer and Town Engineer	Actively participate on local Watershed Associations	Actively participate in various local Citizen Groups; Assistant Town Engineer is involved in NH Seacoast Stormwater Coalition (NHSSC).	Continue to play active roles in local organizations.
2 ----- Revised X	Maintain a Cooperative Relationship with UNH, Boards and Committees, and the Community in general	Town Engineer and Assistant Engineer	Work with UNH and residents on stormwater related issues	Continue to develop and refine the Oyster River Integrated Watershed Plan with UNH and encourage public input.	Coordinate more stormwater activities and programs for public participation and encourage attendance at other related programs.
3 ----- Revised X	Building and Maintaining Rain Gardens and green bioretention systems.	Town Engineer	Group Work Days Maintaining Rain Gardens	The Town Engineer worked with a number of community groups performing maintenance to local rain gardens.	Continue working with community groups performing maintenance to local rain gardens and constructing new rain gardens.
4 ----- Revised X	Community Watershed Monitoring Clean-ups	Town Engineer and other public officials	Coordinate watershed walks and clean-ups, and participate in watershed management planning efforts.	On a monthly basis the Oyster River Watershed Assoc. performs river walks along some portions of the Oyster River in an effort to monitor conditions. River and coastal clean-ups sponsored by various groups are held as annual events. The Oyster River Local Advisory Committee (established in 2011 under RSA 483) includes community members committed to promoting Durham's non-point source management efforts.	Continue to support local organizations sponsoring watershed management of non- point source pollution.

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Person	Measurable Goal(s)	Progress on Goal(s) for 2013 – 14	Planned Activities for 2014 – 15
1 ----- Revised X	Stormwater Mapping	Town Engineer and Assistant Engineer	Complete map implement within GIS system. Perform IDDE survey using trained pollution sniffing dogs	Mapping is 100% complete. Catch basins, drain pipes, culverts, and outfalls were IDDE assessed using pollution sniffing dogs. A system condition prioritization is part of a stormwater system Capital Improvement Plan (CIP).	DPW to continue to assess stormwater infrastructure within MS4 area. The GIS and stormwater system CIP will continue to be updated and improved upon. Perform another round of IDDE sniffing dogs.
2 ----- Revised X	Stormwater Regulations	Town Engineer and Code Enforcement Officer	Adopt IDDE Regulations.	The Durham Town Council adopted IDDE and water resource protection regulations in 2013 as part of an update to the Town's Water Ordinance, Chapter 158	Enforce IDDE requirements per the updated Water Ordinance.
3 ----- Revised	Implement an Information Management System for Tracking Illicit Discharges	Town Engineer	Complete stormwater infrastructure inventory through development of a stormwater CIP and track illicit discharges through GIS system	The stormwater CIP is ongoing to prioritize problems areas and track for signs of illicit discharges. IDDE observations made during system maintenance and through a Town's "Online Storm Drain Report" are utilized for tracking.	Continue updating data and tracking the stormwater system's condition and visually monitoring the quality of local drainage ways.
4 ----- Revised X	Training of Employees	Town Engineer and Assist. Director of DPW Operations	BMP implementation training of staff	Town Staff participated in implementing and maintaining stormwater BMPs and were informed of IDDE methods and techniques.	Attend new workshops offered through NHDES, the UNH Stormwater Training Center, and other regional organizations and educate Town DPW personnel.

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Person	Measurable Goal(s)	Progress on Goal(s) for 2013 – 14	Planned Activities for 2014 – 15
1 Revised X	Maintain Ordinance / Regulatory Information	Town Engineer, Town Planner, Code Enforcement Officer	Updated Stormwater Regulations adopted in 2010	LID requirements in the updated Site Plan and Subdivision Regulations were enforced by the Durham Planning Board	Monitor the activities related to the stormwater regulations by the Planning Board.
2 Revised	Informational Management System	Town Engineer and Assistant Engineer	Maintain and update GIS based mapping , track catch basin cleaning & street sweeping, and continue developing/refining a stormwater CIP.	Expanded data input to Town system regarding catch basins cleaning and maintaining construction based stormwater BMPs.	Use GIS system to track construction based stormwater management BMPs.
3 Revised X	Finalize Ordinance/Regulatory Mechanism	Engineering, Code Enforcement, and Planning Departments	Adopt new IDDE ordinance.	Regulations specific to IDDE were adopted in 2013 as part of the Town's Water Ordinance Chapter 158.	Enforce IDDE requirements on construction sites per the updated Water Ordinance.
4 Revised X	Staff Training	Town Engineer and Assistant Engineer	DPW, Code Enforcement, and Planning Staff to attend training/ workshops on stormwater Management	Town staff annually attends stormwater education workshops, as well as presents at many conferences, workshops, and seminars as well as informing staff of information received.	Continue to educate Town staff and local government officials to stay current with new developments in stormwater management.
5	Construction Site Monitoring	Town Engineer and Assistant	Ensure that the appropriate BMPs are deployed and	Town Staff and hired consultants regularly observed	Continue to observed private and public

Revised X		Engineer	maintained	private and public construction activities to ensure appropriate BMP were deployed and maintained	construction activities to ensure appropriate BMP were deployed and maintained
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## 5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Person	Measurable Goal(s)	Progress on Goal(s) for 2013 – 14	Planned Activities for 2014 – 15
1 Revised X	Identification of BMPs	Town Engineer and Assistant Engineer	Develop possible BMPs for use within the Town	Implemented a variety of BMPs on municipal projects and continued evaluating the efficiency of each item.	Continue to evaluate BMPs that are effective in our geographical area.
2 Revised X	Existing Ordinance / Regulatory Information	Town Engineer, Assistant Engineer, Town Planner, Code Enforcer	Maintain high standards for post-construction monitoring of stormwater design	The updated Durham Site Plan Review Regulations require ALL proposed development to provide “adequate” stormwater management facilities, and insist upon the incorporation of LID design elements to the max extent practicable (MEP).	Monitoring stormwater regulations by Public Works.
3 Revised X	New Ordinance / Regulatory Information	Town Engineer and Town Planner	Adopt new IDDE ordinance.	Regulations specific to IDDE were adopted in 2013 as part of the Town’s Water Ordinance Chapter 158.	Enforce IDDE requirements on post-development construction sites per the updated Water Ordinance.
4 Revised X	Post-Construction Site Monitoring	Town Engineer and Assistant Engineer	Ensure that the appropriate BMPs are maintained	Town Staff regularly observed private and public construction sites post-development to ensure appropriate BMP are maintained	Continue to observed private and public post-development construction sites to ensure appropriate BMP are maintained

## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Person</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) for 2013 – 14</b>	<b>Planned Activities for 2014 – 15</b>
1  ----- Revised X	Develop Pollution Prevention Plan	Town Engineer and Assistant Engineer	Assess and evaluate all Town Facilities and methods of operations relative to Stormwater management.	Developing the Oyster River Integrated Watershed Management Plan to comprehensively enhance pollution prevention with sustainable and GREEN non-point source pollution controls. Clean all catch basins on a three year rotation.	<ul style="list-style-type: none"> <li>• Develop and refine the Oyster River Integrated Watershed Management Plan.</li> <li>• Continue rotational catch basin cleaning schedule.</li> </ul>
2  ----- Revised	Employee Training Materials	Town Engineer and Assist. Director for DPW Operations	Provide staff with educational opportunities relevant information	Town Engineer worked directly with DPW's Highway and Grounds Division crews to employ more effective BMPs in general stormwater system repairs and maintenance.	Take advantage of local training opportunities and obtain and distribute up-to-date materials through suppliers, NHSSC, the UNH Stormwater Center, and provide Town staff with stormwater BMP information.
3  ----- Revised X	Informational Management Systems	Town Engineer and Assistant Town Engineer	Maintain and updated GIS base mapping, track structure maintenance of operations using stormwater CIP.	Information and project planning and scheduling relative to municipal operations was updated and expanded.	Continue to use GIS to record critical stormwater system data, and add location of system problems. Continue to update the GIS database based on field studies within the stormwater network.
4  -----	Employee Training	Town Engineer	Provide staff with more educational opportunities	DPW also continued to provide Town staff with ongoing in-house staff training on BMP	Take advantage of local training opportunities available to town

Revised X			installation and effectiveness. Town DPW staff attended seminars and workshops on integrated watershed planning, water quality monitoring, and green infrastructure.	Staff, and partake in more hand-on BMP installations.
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#### Part IV. Summary of Information Collected and Analyzed

Data specific to the physical condition of the stormwater system discharge Town owned outfalls and culverts within the MS4 area were assessed and evaluated for signs of illicit discharges and general deterioration. No signs of illicit discharges were observed.

#### Part V. Program Outputs & Accomplishments (OPTIONAL)

##### Programmatic

Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures	(\$)	200,000

##### Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	80 %
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y Not logged
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation	(%)	70+ house holds
▪ material collected	(tons or gal)	Not available
School curricula implemented	(y/n)	N

##### Legal/Regulatory

Regulatory Mechanism Status (indicate with "X")	In Place Prior to Phase II	Under Review	Drafted	Adopted <i>NEW</i>
▪ Illicit Discharge Detection & Elimination		X	X	<i>complete</i>

▪ Erosion & Sediment Control	X	X	X	<i>complete</i>
▪ Post-Development Stormwater Management	X	X	X	<i>complete</i>
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		X	X	<i>complete</i>
▪ Erosion & Sediment Control	X	X	X	<i>complete</i>
▪ Post-Development Stormwater Management	X	X	X	<i>complete</i>

### Mapping and Illicit Discharges

Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	60
System-Wide mapping complete (catch basins, outfalls, and culverts)	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	0
▪ CADD	(%)	0
▪ GIS	(%)	100
Outfalls inspected/screened	(# or %)	100
Illicit discharges identified	(#)	maybe 2
Illicit connections removed	(#) (est. gpd)	0
% of population on sewer	(%)	30
% of population on septic systems	(%)	70

### Construction

Number of construction starts (>1-acre)	(#)	1
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	75+
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	5

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100
Site inspections completed	(# or %)	6
Estimated volume of stormwater recharged	(gpy)	+100,000

## Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1/3 of all CBs each yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1 /yr
Total number of structures cleaned	(#)	120
Storm drain cleaned	(LF or mi.)	150 LF
Qty. of screenings/debris removed from storm drain infrastructure	(lbs. or tons)	Not available
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		beneficial use
Cost of screenings disposal	(\$)	N/A

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	4+
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	40
Qty. of sand/debris collected by sweeping	(lbs. or tons)	Not available
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	beneficial use
Cost of sweepings disposal	(\$)	N/A
Vacuum street sweepers purchased/leased	(#)	1 owned
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	0
▪ Herbicides	(lbs. or %)	0
▪ Pesticides	(lbs. or %)	0

Anti-/De-Icing products and ratios	% NaCl	10
Note: little to no salt is used on roads in the winter within the Durham MS4 area.	% Sand	90
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	N
Automatic or Zero-velocity spreaders used	(y/n)	Y
Estimated net reduction in typical year salt application	(lbs. or %)	N/A
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	Y