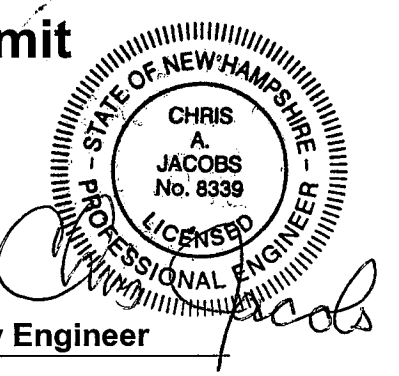
Municipality/Organization: **Somersworth, NH**

EPA NPDES Permit Number: **NHR041034**

Annual Report Number & Reporting Period: **No. 6: April 30, 2009 – April 30, 2010**

NPDES PII Small MS4 General Permit Annual Report



Part I. General Information

Contact Person: **Chris Jacobs, PE** Title: **City Engineer**

Telephone #: **603-692-9524** Email: **cjacobs@somersworth.com**

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: Bob Belmore

Title: City Manager

Date: April 30, 2010

Network: \City Eng \ Stormwater\ Stormwater II\Annual Report Documents\ 2010 Somersworth MS4 Rpt.doc

Part II. Self-Assessment

The City of Somersworth 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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1	Complete & show movie "There is No Away"	Chris Jacobs Engineering	Number of showings	- The City continues to show "There is No Away" and "After the Storm: A Citizen's Video Guide to Understanding Stormwater" on our Government Access -Cable Channel 22.	- Continue showing on Government Access - Cable Channel 22. - Continue outreach to schools to use the movie in their curriculum.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
2	Develop educational resources.	Chris Jacobs, PE Engineering	Variety/number of handouts.	SWPPP Principal Contact continues to look for useful resources to enhance our program. We continue our participation in the Seacoast Stormwater Coalition. This facilitates a cost-effective approach to sharing information/resources in fulfilling our Outreach/Education and Staff Training components of our SWPPP. Handing out "After the Storm" pamphlets at City Clerk's office.	Continue attending, participating, and gathering.

Revised	(Our SWPPP schedules this BMP for years 2 - 5).				
3	Articles in newsletter/website.	Chris Jacobs, PE Engineering Beth Nault City Mangers Ex. Secretary	Number of articles.	Newsletter is now distributed twice per year and space is limited. To date, the articles were excerpts from our SWPPP. We've added the full SWPPP to our website. We're looking into further revisions to our website to add a Stormwater section.	Seek alternatives to articles in the Newsletter. The City's website is being revised, so we plan to expand our Stormwater coverage here.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
4	Classroom education on Stormwater.	Chris Jacobs, PE Engineering	Approximate Number of students seeing the presentantion is 200 over the 3 events.	The Enviroscape Model was used once at the Middle School, June 2009 at the Somersworth Childrens Festival and April 2009 during the City wide Earth Day cleanup..	Continue outreach to schools. See Additions in 1A, below. Make a presentation at the Somersworth Earth Day clean up April 24, 2010.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
5	Pet Waste Management	Chris Jacobs, PE Engineering	Number of dog licenses.	Educational flyer has been finalized and distributed to the Public through the City Clerk's office. Installed 6 Pet Waste Stations the summer of 2008.	Distribute flyers through the City Clerk's office. See Additions in 1A, below. Make a presentation at the Somersworth Childrens Festival in June 19, 2010.
Revised	(Our SWPPP schedules this BMP for years 2 - 5).		Per the City Clerk we license approximately 1,300 dogs. Refer to the Pet Waste Report for more information		

1a. Additions

	Pet Waste and Water Quality Project	Recreation/Maureen Call & Engineering/ Chris Jacobs, PE	This builds on BMP #'s 4, 5, & 7. Success will be measured per those BMP's.		***See Below. We received notification on 4/6/07 that our proposal will be funded.***
	E. coli is listed as a source of impairment in the Salmon Falls River. Therefore, in March, 2007 we submitted a grant proposal to NH Dept of Environmental Services with three Project Goals: Pet Awareness and Education; Storm Drain Stenciling as part of Pet Waste Program; and Pet Waste Stations. Using our Storm Drain Map, we identified all neighborhoods that drain directly into the Salmon Falls River. We propose to stencil 450 catch basins in a 1.0 square mile area of the most densely populated area of Somersworth. This represents 9.5% of the area, but 26.4% of our catch basins. Stenciling will be done by the TRENDS (Teens Reaching Exciting New Dimensions) summer recreation program. Flyers/educational material will be distributed at several public buildings. We purchased an enviroscape - a molded plastic model of a watershed, complete with various land-uses, including residential, transportation, agricultural, construction, recreation, and forestry. It's a tool to demonstrate how water pollution can result from a variety of activities, and how the pollution can impact our water resources. It was utilized with Recreation's after-school program, during Earth Day April 2009, Somersworth Childrens Festival June 2009 and will also be made available for use by all Public and Private schools in Somersworth. We installed 6 Pet Waste Stations: Noble Pines Park, Millennium Park, Memorial Drive, Jules Bisson Park, Pine Street Park and near a swimming area along the River. The Pet Waste flyer has been completed and is being distributed within City Hall at the City Clerks office when dogs are registered, at the Development Services, Recreation and Engineering / Water Department counters.				

Enviroscape Model being used during the Somersworth Childrens Festival on June 20, 2009

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
6	Community cleanups	Engineering/ Chris Jacobs, PE & John Jackman, PE Public Works Director	Number of participants = 200.	- Approx. .200 +/- participants in our April 24, **2010 City Wide Enhancement Day** picked up trash in the Downtown area and all over the City.	- City Wide Enhancement Day is an annual event. - Continue using volunteer organizations for community cleanup.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
7	Storm Drain stenciling	Recreation/Maureen Jackman & Engineering/ Chris Jacobs, PE	295 catchbasins were stenciled	Keith Perkins a Boy Scout is worked on his Eagle Scout Project. Along with his troop they stenciled 295 catchbasins in the Spring of 2009. Please see the report prepared by Keith Perkins under section 7A.	To have the Public Works Staff paint out the catchbasins.
Revised	(Our SWPPP schedules this BMP for years 1 and 4).				

2a. Additions

	Coordinate with Seacoast Stormwater Coalition for appropriate and feasible education and outreach.		Number of meetings and/or coordinated efforts with the Seacoast Stormwater Coalition.	The City has designated a representative. The Coalition meets quarterly throughout the year. The Coalition coordinated an application for grant money to create a Manual for standard operating procedures for IDDE and good housekeeping. The Manual was approved by the State and produced in November 2006. The Manual can be found on line at www.des.state.nh.us, under popular topics choose Storm Water, then Latest News, and scroll down to paragraph 2. Meetings Attended: May 14, 2009 (2 hrs) March 11, 2009 (2 hrs) October 22, 2009 (2 hrs) January 21, 2010 (2 hrs)	On-going meetings and attendance. Conduct training using the manual

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
8	Sewer System Map	Chris Jacobs, PE – City Engineer	100% Complete	Sewer System Map is done. We have obtained as-built plans from developers as work was installed.	Update the map on a continuous basis as new infrastructure is added to the system.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
9	Remove known illicit connections.	Chris Jacobs, PE – City Engineer	Number removed	No illicit discharges were eliminated in 2009. March 2010 we smoke tested 113 Indigo Hill Road and determined that it was connected to the City sewer main.	Currently we are working with the DES to continue searching for and removing illicit discharges .
Revised	(Our SWPPP schedules this BMP for years 1 - 5).		Create standard operating procedures for the detection of non-stormwater discharges.	Developed SOPs for detection and elimination via the Seacoast Stormwater Coalition grant project. City obtained grant money through Seacoast Stormwater Coalition to develop SOPs. A Manual was created and approved by the State and produced in November 2006. The Manual can be found on line at www.des.state.nh.us, under popular topics choose Storm Water, then Latest News, and scroll down to paragraph 2.	Subsequent training using these SOPs will be held May through October 2010.
10	Information Management System	Public Works/John Jackman	Number of outfalls screened - none	"VueWorks" Asset Management software has been installed and is operational. We've made progress with water, sewer, and drainage assets.	Staff has begun using work orders for many tasks, including drainage system assets.
Revised	(Our SWPPP schedules this BMP for year 5).				
11	Review City Ordinances	Dave Sharples, City Planner & Chris Jacobs, PE City Engineer	Number of changes/additions	On February 2, 2009 the City Council passed an updated wetlands ordinance titled the Riparian and Wetland Buffer District Ordinance. We see this as a significant step as it will serve to prevent silt and topsoil from entering water bodies and wetlands.	- Complete review of ordinances pertaining to Stormwater. - Formalize a Stormwater team.

Revised	(Our SWPPP schedules this BMP for years 2 & 3).				
	Develop Guidelines and Standard Operating Procedures Manual	Chris Jacobs, PE – City Engineer		The Seacoast Stormwater Coalition completed this task. It can be found on line at www.des.state.nh.us, under popular topics choose Storm Water, then Latest News, and scroll down to paragraph 2.	This year we propose to follow up this initiative with development of materials and curriculum and begin staff training on Illicit Discharge Detection and Elimination.

3a. Additions

	Staff Training	Chris Jacobs, PE – City Engineer	21 of 32 reports were received for 2009	Instead of staff training in 2010 we have spent our time enforcing the stormwater rules and regulations contained within or site plan and subdivision regulations. Specifically we have sent out letters twice to previously approved sites requesting their Stormwater Management reports for 2009.	Use the Guidelines & SOP's (above) to develop course materials and curriculum and begin staff training on Illicit Discharge Detection and Elimination. This is a joint effort with other communities in the Seacoast Stormwater Coalition.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
11	Review City Ordinances	Dave Sharples, City Planner & Chris Jacobs, PE City Engineer	Number of changes/additions = none	On February 2, 2009 the City Council passed an updated wetlands ordinance titled the Riparian and Wetland Buffer District Ordinance. We see this as a significant step as it will serve to prevent silt and topsoil from entering water bodies and wetlands.	- Complete revision of Stormwater Ordinances.
Revised	(Our SWPPP schedules this BMP for years 1 & 2).				
12	Employee training	Dave Sharples, City Planner & Public Works/John Jackman	Number trained = 0		Send new personnel as necessary.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
13	Begin inspection program	Public Works/John Jackman	Number of sites inspected = 12	- Continue inspecting our own work. – CLD Engineering inspects many sites for the City during the year.	Continue current procedures. Improve documentation procedures.
Revised	(Our SWPPP schedules this BMP in year 3).				
14	Maximum compliance	Chris Jacobs, PE – City Engineer & John Jackman, PE Public Works Dir.	Number of inspections = 40+	We inspected a number of sites, but we need to improve documentation procedures.	With Consultant inspection and staff training we are moving closer to full compliance. Final reports are required from the consultant on all projects detailing daily reports & other construction quality standards.

Revised	(Our SWPPP schedules this BMP for year 5).				

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
16	Identification of BMP's.	Dave Sharples, City Planner & Chris Jacobs, PE City Engineer	Number of BMP's	The City has embraced some of the LID BMP's and specifically the used of pervious paving. A new medical office park (Terrascape) has installed of pervious paving in all areas except the main entrance. This serves to reduce runoff and the size of the stormwater detention areas. The work was installed during October & November of 2009.	Continue observing other municipality's efforts and obtaining sample ordinances.
Revised	(Our SWPPP schedules this BMP for years 3 - 5).				
17	Post Construction Maintenance	Engineering/ Chris Jacobs, PE	Number of facilities	At the Planning Board stage we require a Stormwater Management, Maintenance, & Inspection Plan to be submitted and approved. We have sent out letters twice to previously approved sites requesting their Stormwater Management reports for 2009.	-Continue with current practice. -Continue with yearly letters to insure inspections are being completed and are being installed.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).		21 of 32 reports were received for 2009		
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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
18	Vehicle washings	Public Works/John Jackman	Employees trained	Established new procedures for vehicle washings and trained Public Works staff on them.	Continue training as needed.
Revised	(Our SWPPP schedules this BMP for year 1)				
19	Street cleaning	Public Works/John Jackman	267.7 Man-hours	- 267.7 hours spent sweeping 1300 miles of streets. The City repaired our existing sweeper and we purchased a new sweeper under the 2009 Capital Improvements Projects section of the budget.	Continue street sweeping. We expect to sweep approximately 1300 miles in year 7
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
20	Train employees	Public Works/John Jackman	Employees trained	Informal training provided as needed for various SWPPP activities, such as silt fence installation & vehicle washings. See Additions, below.	Move forward with other entities to develop more formal training program on Stormwater activities. See Additions, below.

Revised	Reduce the amount of nutrients and sediments entering receiving waters through education of municipal employees about spill prevention and control, vehicle washing, lawn activities, etc.		Create and publish a Manual for NH communities to standardize best management practices and procedures for IDDE, pollution prevention and good housekeeping. Train storm water managers and labor force against these standards.	Seacoast Coalition obtained state grant money to fund the development of BMPs and SOPs best suited NH communities in meeting the IDDE, pollution prevention and good housekeeping requirements. Procedures developed. Numerous meetings held b/w the Seacoast Coalition reps as well as workforce providing input to improve the Manual in application and practicality. The Manual was approved by the State and produced November 2006. The Manual can be found on line at www.des.state.nh.us, under popular topics choose Storm Water, then Latest News, and scroll down to paragraph 2.	Training to be conducted to meet these standard operating procedures: IDDE Pollution Prevention and Good Housekeeping training 7 sessions scheduled between May and October 2007.
21	Storm drain system cleaning	Public Works/John Jackman	320 Man-hours with our older vacuum truck	The City contracted with Ted Berry Co., Inc to clean basins at $45.00 each, for a total figure of $7,200.00. They cleaned 160 basins. Public works staff cleaned 50 basins by over 320 hours using our older vacuum / sweeper truck.	Continue storm drain system cleaning. We have funding for an outside consultant in year 7 in the amount of $7,200 for the proposed budget FY10 – FY11.
Revised	(Our SWPPP schedules this BMP for years 1 – 5).				
22	Spill response & prevention	Public Works/John Jackman	Employees trained	Seacoast Coalition obtained state grant money to fund the development of BMPs and SOPs best suited NH communities in meeting the IDDE, pollution prevention and good housekeeping requirements. Procedures developed. Numerous meetings held b/w the Seacoast Coalition reps as well as workforce providing input to improve the Manual in application and practicality. The Manual was approved by the State and produced November 2006. The Manual can be found on line at www.des.state.nh.us, under popular topics choose Storm Water, then Latest News, and scroll down to paragraph 2.	See Additions, below. This is one of the SOP's under development by the Seacoast Stormwater Coalition.
Revised	(Our SWPPP schedules this BMP for years 3 & 4).				
Revised					

This is the new street sweeper that the City purchased in 2009 to increase the effectiveness of our sweeping program.

6a. Additions

	Develop Guidelines and Standard Operating Procedures Manual	Engineering/ David Foster		The Seacoast Stormwater Coalition completed this task. It can be found on line at www.des.state.nh.us, under popular topics choose Storm Water, then Latest News, and scroll down to paragraph 2.	- Next year we propose to follow up this initiative with development of materials and curriculum and begin staff training on Illicit Discharge Detection and Elimination.
	Household Hazardous Waste Day	Public Works/John Jackman	Number of households.	Though we've never reported this in our Annual Reports, we've held this event for years. The movie "Stormwater Runoff: There Is No Away" shows video footage of the one we held in 2003 (+-). households that participated.	This event is not being funded in the FY10 to FY11 budget.

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
5-M e.coli impairment for NHIMP60030406-02 due to Illicit Connections to storm drains		Chris Jacobs, PE – City Engineer & John Jackman, PE Public Works Dir.		We have been and continue to investigate the storm drainage system for illicit discharges with the assistance of the NHDES. Once identified, the municipality has worked with the property owners to disconnect the discharge and where necessary re-plumb the sanitary sewer to accommodate the discharge.	We have been and continue to investigate the storm drainage system for illicit discharges with the assistance of the NHDES. Once identified, the municipality has worked with the property owners to disconnect the discharge and where necessary re-plumb the sanitary sewer to accommodate the discharge.
Revised					
4A-M Dissolved Oxygen impairment for NHRIV600030406-03 due to Municipal Point Source Discharges		John Jackman, PE Public Works Dir.		A Point Source TMDL was approved by EPA in 1999. The joint Maine-New Hampshire TMDL has been implemented by the wastewater treatment facilities that discharge to the Salmon Falls River and the river is monitored on a regular basis to determine if water quality standards are being met.	A Point Source TMDL was approved by EPA in 1999. The joint Maine-New Hampshire TMDL has been implemented by the wastewater treatment facilities that discharge to the Salmon Falls River and the river is monitored on a regular basis to determine if water quality standards are being met.
Revised					
Revised					
Revised					
Revised					

Revised					

7a. Additions

7b. WLA Assessment

2009 Catchbasin Stenciling Summary

Project Leader = Keith Perkins
Edited by = Chris Jacobs, PE - City Engineer

DATE	ID NUMBER	DEPTH TO WATER (inches)	DEPTH TO SUMP (inches)	FRAME CONDITION (good)	(needs repair)
4/18/2009	1301		57	X	
4/18/2009	1303		25		X
4/18/2009	1300		38		X
4/18/2009	1290	38	38		X
4/18/2009	1459		44	X	
4/18/2009	1274		31.5	X	
4/18/2009	1655		38	X	
4/18/2009	1656-1	47	50	X	
4/18/2009	1656-2	39	52	X	
4/18/2009	1651		40	X	
4/18/2009	1657		37	X	
4/18/2009	1633		42	X	
4/18/2009	1471	39	40	X	
4/18/2009	1472	39	51	X	
4/18/2009	1653-1	52	55	X	
4/18/2009	1653-2		42	X	
4/18/2009	1637		39		X
4/18/2009	1636		42	X	
4/18/2009	1635		39	X	
4/18/2009	1639		31		X
4/18/2009	1453-1		36		X
4/18/2009	1453-2		5		X
4/18/2009	1357	26	42	X	
4/18/2009	1370	25	41	X	
4/18/2009	1348	39	48	X	
4/18/2009	1349	42	56	X	
4/18/2009	1344	32	26	X	
4/18/2009	1345	31	41	X	
4/18/2009	1342	49	56		needs cleaning
4/18/2009	1343	55	59	X	
4/18/2009	2452	28	32	X	
4/18/2009	2453	35	40	X	
4/18/2009	1283	41	43	X	
4/18/2009	1284		41	X	
4/18/2009	1285	36	42	X	
4/18/2009	2443		40	X	
4/18/2009	2442		37	X	
4/18/2009	1139		22		needs cleaning
4/18/2009	1747		42	X	
4/18/2009	1746	50	55	X	
4/18/2009	2478	54	90	X	
4/18/2009	2477	36	38	X	
4/18/2009	2368		30	X	

2009 Catchbasin Stenciling Summary

Project Leader = Keith Perkins
Edited by = Chris Jacobs, PE - City Engineer

DATE	ID NUMBER	DEPTH TO WATER (inches)	DEPTH TO SUMP (inches)	FRAME CONDITION (good)	(needs repair)
4/18/2009	2350	28	39	X	
4/18/2009	2351		25	X	
4/18/2009	1040-1		50	X	
4/18/2009	1040-2	54	56	X	
4/18/2009	1119-1		64	X	
4/18/2009	1119-2	49	63	X	
4/18/2009	1739	53	58	X	
4/18/2009	1116	41	56	X	
4/18/2009	2337		42	X	
4/18/2009	2338		57	X	
4/18/2009	1433	59	78	X	
4/18/2009	1434	66	75	X	
4/18/2009	1430	58	61	X	
4/18/2009	1429	55	65	X	
4/18/2009	1418	54	83	X	
4/18/2009	1419	65	66	X	
4/18/2009	1414	41	53	X	
4/18/2009	1411-1	42	55	X	
4/18/2009	1411-2	37	55	X	
4/18/2009	1440	103	125	X	
4/18/2009	1413	32	35	X	
4/18/2009	1412	51	89	X	
4/18/2009	1410	42	60	X	
4/18/2009	920	45	64	X	
4/18/2009	1417	45	54	X	
4/18/2009	1416	51	58	X	
4/18/2009	1427	39	43	X	
4/18/2009	1428	32	37	X	
4/18/2009	2342	48	63	X	
4/18/2009	2341	55	57	X	
4/18/2009	2375		35	X	
4/18/2009	2343	40	47	X	
5/16/2009	2340	-	55	X	
5/16/2009	2339	45	68	X	
5/16/2009	1447	48	68	X	
5/16/2009	1438	37	58	X	
5/16/2009	1439	55	58	X	
5/16/2009	776	54	67	X	
5/16/2009	1435	-	40	X	
5/16/2009	1436	34	58	X	
5/16/2009	1442	59	72	X	
5/16/2009	1420	48	69	X	
5/16/2009	1443	64	79	X	
5/16/2009	1431	79	93	X	

2009 Catchbasin Stenciling Summary

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DATE	ID NUMBER	DEPTH TO WATER (inches)	DEPTH TO SUMP (inches)	FRAME CONDITION (good)	(needs repair)
5/16/2009	1421	51	65	X	
5/16/2009	1446	-	48	X	
5/16/2009	926	45	67	X	
5/16/2009	-	-	41	X	
5/16/2009	1426	38	66	X	
5/16/2009	1424	40	43	X	
5/16/2009	1423	43	60	X	
5/16/2009	1425	62	65	X	
5/16/2009	1441	37	78	X	
5/16/2009	1415	38	75	X	
5/16/2009	2394	-	23		X
5/16/2009	2395	49	53	X	
5/16/2009	2407	36	63	X	
5/16/2009	2414	47	75	X	
5/16/2009	2406-1	-	35	X	
5/16/2009	2406-2	35	44	X	
5/16/2009	2403	46	60	X	
5/16/2009	2404	-	47	X	
5/16/2009	2363	43	44	X	
5/16/2009	2362	53	60	X	
5/16/2009	976	-	49	X	
5/16/2009	2357	-	38	X	
5/16/2009	2359	-	43		needs cleaning
5/16/2009	2398	-	44		needs cleaning
5/16/2009	2397	-	33	X	
5/16/2009	2402	-	46	X	
5/16/2009	2401	-	31	X	
5/16/2009	2364	-	9		needs cleaning
5/16/2009	2365	-	36	X	
5/16/2009	2355	-	23	X	
5/16/2009	2354	-	41	X	
5/16/2009	2415	-	37	X	
5/16/2009	2408	-	19	X	
5/16/2009	2409	-	33	X	
5/16/2009	2410	-	27	X	
5/16/2009	2411	-	31		needs cleaning
5/16/2009	2413	-	38	X	
5/16/2009	1593	-	38	X	
5/16/2009	1581	-	26	X	
5/16/2009	1577	-	16	X	
5/16/2009	1576	-	39	X	
5/16/2009	1590	-	43	X	
5/16/2009	1592	31	40	X	
5/16/2009	1591	-	-		needs cleaning
5/16/2009	1595	-	39	X	

2009 Catchbasin Stenciling Summary

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DATE	ID NUMBER	DEPTH TO WATER (inches)	DEPTH TO SUMP (inches)	FRAME CONDITION (good)	(needs repair)
5/16/2009	1594	-	36	X	
5/16/2009	2396	57	57		lots of metal in it
5/16/2009	2412	-	41	X	
5/16/2009	1580	-	28	X	
5/16/2009	1583	-	38	X	
5/16/2009	1596	-	42	X	
5/16/2009	1599	-	45	X	
5/16/2009	1597	-	-		needs cleaning
5/16/2009	1598	-	44	X	
5/16/2009	1588	-	32	X	
5/16/2009	1587	28	34	X	
5/16/2009	1589	-	50	X	
6/2/2009	2439	43	49	X	
6/2/2009	2438	39	42	X	
6/2/2009	2437	41	42	X	
6/2/2009	2440	48	51	X	
6/2/2009	2461	-	33	X	
6/2/2009	2460	-	42	X	
6/2/2009	2455	-	29	X	
6/2/2009	2449	52	55	X	
6/2/2009	2450	-	49	X	
6/2/2009	2456	49	59	X	
6/2/2009	2457	43	47	X	
6/2/2009	-	62	66	X	
6/2/2009	-	62	63	X	
6/2/2009	2464	47	49	X	
6/2/2009	2465	60	65	X	
6/2/2009	2462	-	32	X	
6/2/2009	2466	39	41	X	
6/2/2009	2467	62	64	X	
6/2/2009	2484	-	48		needs cleaning
6/2/2009	2485	46	47	X	
6/2/2009	2487	-	17	X	
6/2/2009	2486	28	34	X	
6/2/2009	2454	-	83		needs cleaning
6/2/2009	2444	32	35	X	
6/2/2009	2458	-	29	X	
6/2/2009	2451	26	33	X	
6/2/2009	2435	42	50	X	
6/2/2009	2434	46	54	X	
6/2/2009	1250	-	37	X	
6/2/2009	1249	-	45	X	
6/2/2009	2436	65	68	X	
6/2/2009	1277	62	70		covered over

2009 Catchbasin Stenciling Summary

Project Leader = Keith Perkins
Edited by = Chris Jacobs, PE - City Engineer

DATE	ID NUMBER	DEPTH TO WATER (inches)	DEPTH TO SUMP (inches)	FRAME CONDITION (good)	(needs repair)
6/2/2009	1307	34	55	X	
6/2/2009	1305-1	41	44	X	
6/2/2009	1305-2	-	38	X	
6/2/2009	1282	40	41	X	
6/2/2009	1279	29	33	X	
6/2/2009	1280	32	39	X	
6/2/2009	1278	24	27	X	
6/2/2009	1297	-	33	X	
6/2/2009	1456	-	32	X	
6/2/2009	875	-	28	X	
6/2/2009	1247	-	38	X	
6/2/2009	1276	48	64	X	
6/2/2009	1275	42	43	X	
6/2/2009	1288	-	47	X	
6/2/2009	936	39	61	X	
6/2/2009	1461	-	36	X	
6/2/2009	1618	-	16	X	
6/2/2009	1617	-	35	X	
6/7/2009	1400	66	84	X	
6/7/2009	975	68	84	X	
6/7/2009	1405	-	58	X	
6/7/2009	918	58	60	X	
6/7/2009	1406	54	64	X	
6/7/2009	1402-1	65	80	X	
6/7/2009	1402-2	61	70	X	
6/7/2009	1404	64	69	X	
6/7/2009	1403	54	61	X	
6/7/2009	2345	-	72	X	
6/7/2009	2346	78	94	X	
6/7/2009	2348	83	92	X	
6/7/2009	2352	80	91	X	
6/7/2009	2384	56	66	X	
6/7/2009	2388-1	46	52	X	
6/7/2009	2388-2	39	53	X	
6/7/2009	2382	64	90	X	
6/7/2009	2387	67	76	X	
6/7/2009	2389	-	49	X	
6/7/2009	2385	-	50	X	
6/7/2009	2386	50	52	X	
6/7/2009	2331	56	59	X	
6/7/2009	460	53	59	X	
6/7/2009	2381-1	56	68	X	
6/7/2009	2328	69	77	X	
6/7/2009	1166	60	85	X	

2009 Catchbasin Stenciling Summary

Project Leader = Keith Perkins
Edited by = Chris Jacobs, PE - City Engineer

DATE	ID NUMBER	DEPTH TO WATER (inches)	DEPTH TO SUMP (inches)	FRAME CONDITION (good)	(needs repair)
6/7/2009	1450	60	72	X	
6/7/2009	1449	60	97	X	
6/7/2009	1448	80	104	X	
6/7/2009	2334	77	106	X	
6/7/2009	2335	98	102	X	
6/7/2009	2329	78	101	X	
6/7/2009	2332	52	55	X	
6/7/2009	2333	61	66	X	
6/7/2009	2381-2	71	106	X	
6/7/2009	2383	58	91	X	
6/7/2009	2349	82	121	X	
6/7/2009	2353	72	85	X	
6/7/2009	1666	54	80	X	
6/7/2009	2347	52	80	X	
6/7/2009	1392	83	91	X	
6/7/2009	1391	57	76	X	
6/7/2009	1389	52	59	X	
6/7/2009	1388	51	63	X	
6/7/2009	962	66	82	X	
6/7/2009	951	-	-		covered over
6/7/2009	1536	59	61	X	
6/7/2009	1538	-	62	X	
6/7/2009	1527	52	77	X	
6/7/2009	1543	49	51	X	
6/7/2009	1537	-	40	X	
6/7/2009	1535	-	45	X	
6/7/2009	1541	55	60	X	
6/7/2009	1539	85	104	X	
6/7/2009	1540	40	58	X	
6/7/2009	1510	46	54	X	
6/7/2009	1522	30	93	X	
6/7/2009	1507	50	94	X	
6/7/2009	1508	66	99	X	
6/7/2009	1509	60	74	X	
6/7/2009	1506	-	62	X	
6/7/2009	1520	47	88	X	
6/7/2009	1521	-	41	X	
6/7/2009	1519	34	36		X
6/7/2009	1529	51	59	X	
6/7/2009	1528	49	75	X	
6/7/2009	1526	70	79	X	
6/7/2009	1531	55	77	X	
6/7/2009	1532	77	98	X	
6/7/2009	1533	-	39	X	
6/7/2009	1534	81	94	X	

2009 Catchbasin Stenciling Summary

Project Leader = Keith Perkins
Edited by = Chris Jacobs, PE - City Engineer

DATE	ID NUMBER	DEPTH TO WATER (inches)	DEPTH TO SUMP (inches)	FRAME CONDITION (good)	(needs repair)
6/7/2009	944	61	76	X	
6/7/2009	1566	48	64	X	
6/7/2009	1252	58	63	X	
6/7/2009	1571	70	81	X	
6/7/2009	1570	55	57	X	
6/7/2009	1569	-	32	X	
6/7/2009	1568	55	77	X	
6/7/2009	1601	-	30	X	
6/7/2009	871	-	30	X	
6/7/2009	1254	40	43	X	
6/7/2009	1544	-	35	X	
6/7/2009	1557	-	34	X	
6/7/2009	1558	-	31	X	
6/7/2009	1512	-	-		Full
6/7/2009	1514	-	40	X	
6/7/2009	1515	-	48	X	
6/7/2009	1513	41	64	X	
6/7/2009	1622	-	-		Full
6/7/2009	1621	-	35	X	
6/7/2009	1623	-	27	X	
6/7/2009	1624	-	22	X	
6/7/2009	1625	-	28	X	
6/7/2009	1263	-	29	X	
6/7/2009	1626	39	80	X	
6/7/2009	1643	48	55	X	
6/7/2009	1644	38	57	X	
6/7/2009	1641	-	41	X	
6/7/2009	1273	-	36	X	
6/7/2009	1632	58	60	X	
6/7/2009	1631	36	49	X	
	295	catchbasin stenciled			

Part IV. Summary of Information Collected and Analyzed

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 %)	
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.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

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

Construction

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

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
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.)		

Cost of screenings disposal	($)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	($)	
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 %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	

Storage shed(s) in design or under construction	(y/n)	