

October 30, 2011

Mr. Brian Wisnewski
Compliance Assurance Division
2600 Bull Street
Columbia, SC 29201-1708

Dear Brian:

Enclosed you will find our 2011 sMS4 Annual Report. Within the report, you will find a description of our activities for the time period 09/01/10-08/30/11 as required by our permit. We are pleased to report that over 292 tons of debris and trash has been removed or recycled from our streets, roadsides, sheds, and storage areas in our community. A complete summary and description of all of our accomplishments are provided in the report but we would like to point out a few of them here:

✓ The Brick Pond Park Outdoor Education Classroom was used to host over 896 students, parents, educators and stormwater professionals throughout this reporting period for stormwater education activities and tours.
✓ Held a successful Household Hazardous Waste Collection Event where 4.93 tons of potential pollutants were removed and properly disposed of or recycled. Plus we held two successful Electronics Waste Recycle events where 56 tons of materials were recycled.
✓ The removal of 231 tons of pollutants from our community through our storm drain cleaning (286 drains, ~9.3 tons), street sweeping (203 tons) and roadside litter pickup (18.8 tons) programs.
✓ Outreach and education efforts with approximately 49,683 citizen contacts with stormwater messages, materials, or education events were accomplished.
✓ Public participation with approximately 1,692 participants during this period.
✓ Successful construction permitting and site inspection program with excellent compliance ratings (total of 305 site inspections with overall compliance rate of 96%).
✓ Successful implementation of all of our Program Goals as described in the attached annual report.

To date, we have not received feedback from DHEC regarding our 2010 sMS4 Annual Report submitted October 30, 2010. Since we have not, we are unaware of any deficiencies and none are addressed in this submittal.

We have reviewed and updated our SWMP to include annexations and/or changes as a result of our work this past year. If you have any questions, you may contact David Caddell at (803) 441-4295 or his email: dcaddell@northaugusta.net or Tanya Strickland at (803) 441-4246 email: tstrickland@northaugusta.net.

Sincerely,



Thomas C. Zeaser, P.E.
Director of Engineering & Public Works
Encl.

**City of North Augusta Stormwater Management
Small Municipal Separate Storm Sewer System (sMS4)
Permit #SCR030304
Annual Report
September 1, 2010 – August 30, 2011**

Submitted to: **South Carolina Department of Health and Environmental Control
Bureau of Water- Water Pollution Compliance Section
2600 Bull Street
Columbia, SC 29201-1708**

Ownership Update

Permittee: CITY OF NORTH AUGUSTA

Program Name: STORMWATER MANAGEMENT DEPARTMENT

Check here if you are reporting for more than one Program: (Prepare copies of this page as needed for each Program and attach to report.)

Permit Coverage Approval # SC SCR030304

Responsible Official Name: TOM ZEASER
Title: DIRECTOR OF PUBLIC WORKS
Mailing Address: P. O. BOX 6400, NORTH AUGUSTA, SC 29861-6400
Telephone Number: (803) 441-4220
E-mail address: tzeaser@northaugusta.net

Program Manager Name: DAVID CADDELL
Title: STORMWATER MANAGER
Mailing Address: 61 CLAYPIT ROAD, NORTH AUGUSTA, SC 29841
Telephone Number: (803) 441-4295
E-mail address: dcaddell@northaugusta.net

Ordinance Information: Insert your website address if the ordinance is posted online. If your ordinance is not posted on line, please submit a hard copy of ordinance with this report.

Hard copy attached website: www.northaugusta.net

Authorized Signature and Certification

I certify under the penalty of law that this document and all attachments were prepared under my direction of 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 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.

Responsible Official Signature:  Date: 10/28/2011

The responsible official may authorize another person or person occupying a specific position to sign and certify this report if the authorization is made in writing and if the written authorization is submitted to the Department. Please attach a copy of the authorization with this report, if appropriate.



**Stormwater Management Program
2011 sMS4 Annual Report**



North Augusta Stormwater Management Department



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Responsible Official Signature: _____ Date: _____

The responsible official may authorize another person or person occupying a specific position to sign and certify this report if the authorization is made in writing and if the written authorization is submitted to the Department. Please attach a copy of the authorization with this report, if appropriate.

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Table 1: North Augusta Stormwater Management Department Team

Name	Title	Role	Certifications
Tom Zeaser	Director of Engineering & Public Works	Plan Reviewer, Policy Administration	P.E., CEPSCI, CSWPR
David Caddell	Stormwater Manager & Superintendent of Streets and Drains	Program Manager, Plan Reviewer, Site Inspector	CPESC, CPSWQ, CEPSCI, CSWPR
Tanya Strickland	Environmental Coordinator	Program Coordinator, Plan Reviewer, Site Inspector	CEPSCI, CSWPR, CHMM
Jeff Davis	Engineering Technician	Site Inspector, Engineering Inspections	CEPSCI
Jerome Mabry	Heavy Equipment Operator	Storm drain maintenance and construction	CDL
Kevin Whaley	GIS Analyst	Storm drain mapping and project support	GISP
Rafael Guerra	Laborer	Storm drain maintenance and construction laborer	

Minimum Control Measures (MCMs)

The six minimum control measures that must be included in your Storm Water Management Plan

Note: For a complete list of activities, measurable goals, and outcomes, see comprehensive table located on pages 25-34 of this report. The Storm Sewer Outfall map is located at the end of this report as Attachment A.

MCM #1 Public Education and Outreach on Storm Water Impacts (4.2.1)

Public Education and Outreach on Storm Water Impacts (4.2.1) *You must implement a public education program to distribute educational materials or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff. Additional information can be obtained from the SCDHEC Storm Water Education Clearinghouse Web Site, <http://www.scdhec.net/water/ms4/index.html>.*

A. Report the current stage of development of your education program. Mark one or more that most accurately reflects the current status of your education program as a whole:

- Not started Research Development Implementation

B. Which audiences have you targeted? Explain why that particular audience was selected. *Mark all that apply:*

- Residential:** Improper Disposal of Household Hazardous Waste Large Pet Population
 Tendency for Littering Over-Fertilizing Lawns Septic Tank Maintenance
 Leaking Sewer Line/Sanitary Sewer Overflow Reporting Procedures
 Other-Describe: Yard Waste Each of these outreach targets were selected based on each being a known pollutant contributor.
- Commercial:** Poor Outdoor Housekeeping Parking Lot Runoff
 Concern Related to Specific Business Type. Describe: Restaurants, Automotive due to the potential for discharges to the storm sewers from their activities.
- Industrial:** Poor Outdoor Housekeeping Parking Lot Runoff
 Concern Related to Specific Business Type. Describe: Industry staff are contacted during storm pond inspections and ideas to prevent pollution are discussed.
- Institutional:** Poor Outdoor Housekeeping Parking Lot Runoff
 Concern Related to Specific Business Type. Describe: School Parking lots due to the large impervious area and number of cars/sand that can impact our system.

Additional Target Audience: CONTRACTORS, DEVELOPERS, AND ENGINEERING FIRMS DOING WORK IN THE CITY.

Why targeted? TO EDUCATE THEM ON HOW TO PREVENT STORMWATER IMPACTS FROM THEIR ACTIVITIES.

C. Which pollutant sources has your public education program targeted? *Mark all that apply:*

- Pet Waste Human Septic Waste Litter/Improper Disposal
 Household Hazardous Waste Parking Lot Runoff (Petroleum) Oils/Grease Sediment
 Industrial Waste Business/Commercial Waste/By-products Other, Name: Agricultural, home Lawn Care, and Gardening practices.

D. Describe your outreach strategy. The city works year round conducting seminars, school visits, tours of the stormwater treatment wetland to educate citizens of all ages about stormwater pollution prevention and ideas to deter future problems.

Enter the number distributed/reached in the spaces provided:

	Number		Number
Brochures/ Newsletters	48000	Utility Bill Inserts	48,000
Workshop/ Seminars	2 workshops/11 seminars	Radio Ads	0
Posters	0	Television Ads	0
Newspaper Articles	4	Other: Education Events	24
Web site (estimated hits)	200		

E. Evaluate the success of this MCM:

Answer each question:

- a. Does your plan include measurable goals for this MCM? Yes No

- b. Did you meet the due date listed in your permit schedule for:
 - Full development of this MCM? Yes No (Year 1 Reporting only)
 - Full implementation of the MCM? Yes No

- c. Did you measure the program's success against the selected goals? Yes No

- d. Rank the program's success as determined by the evaluation: Successful Needs Improvement

- e. If your evaluation found the program needs improvement, explain why by marking all that apply:
 - No goals were established
 - Goals were not established early enough in the program to provide guidance to staff
 - Unclear, immeasurable, or unrealistic goals
 - Insufficient funding
 - Insufficient staffing
 - 1st year report – program was under development
 - Other: Explain

Table 2: MCM #01 Educational Outreach Summary 2010 – 2011

Date	Item/Event - Audience	Topic Covered/Discussed	Participants/Group
09/14/2010	MCG Retirement Assoc.	Brick Pond Park Stormwater treatment wetland	50 guests
09/13/2010	2010 ISM Conference Augusta GA	Stormwater treatment at Brick Pond Park a Restored Wetland	100 plus attendees
10/13/10	North Augusta Elementary	Brick Pond Park Education Program	150 (120 5 th grade kids, 30 adults)
10/15/2010	Sweetwater Church Group	BPP SW Treatment Wetlands	60 adults
11/18/2010	Aiken Tech	Water quality monitoring	16 adults students
12/01/2010	Engineering Seminar	New stormwater regulations and vendor showcase	35 adults
12/10/2010	The Resource	Nov Edition – Using water wisely	12,000 households
12/14/2010	North Augusta Pack Leaders Meeting	Boy Scout volunteer opportunities and ways to protect streams	30 adults, 50 kids
02/03/2011	Lunch and Learn	East Coast Erosion Co met with staff - installation	15 city employees
02/16/2011	Hammond Hills Elem	Brick Pond Park Education Program	150 (120 5 th grade kids, 30 adults)
02/24/2011	Hammond Hill School Career Day	Environmental careers including stormwater	120 kids
02/25/2011	Mossy Creek Science day	Stormwater education	100 kids
02/25/2011	The Resource	Feb Edition – preventing pollution	12,000 households
02/22/2011	Public Workshop	Shoreline Drive Erosion project	2 adults
03/31/2011	Aiken Tech	Water quality monitoring	19 students
04/13/2011	NA Leadership Academy	NA Leadership Class 2011 Tour of Brick Pond Park	20 adults
04/15/2011	Hammond Hills Science Day	Hammond Hills Elementary	100 students, 6 teachers
04/20/2011	Belvedere Elem	BPP Education Project	150 (120 students, 30 adults)
05/14/2011	Household Haz. Waste Collection Day	Collecting household chemicals	125 cars
04/2011	The Resource Newsletter	April Edition: know your watershed	12,000 households
06/14/2011	Fairview Presb. Afterschool program	Kids tour park	20 kids 3 adults
06/16/2011	Adventure Camp at BPP	SW Education	50 kids 5 adults
06/23/2011	Adventure Camp at BPP	SW Education	40 kids 5 adults
06/28/2011	Adventure Camp at BPP	SW Education	40 kids 5 adults
06/30/2011	Adventure Camp at BPP	SW Education	35 kids 5 adults
06/14/2011	Fairview Presb. Afterschool program	Kids tour park	15 kids 3 adults
08/09/11	Aiken Tech	Water quality monitoring	15 students (adult)
09/09/11	GA Cyber Academy	Homeschool students	120 kids 30 adults
08/2011	The Resource Newsletter	August edition: recycle and stormwater	12,000 households
<i>Approx. Total of Individuals reached 9/1/10– 08/30/11</i>			49,683

MCM #2 Public Involvement / Participation (4.2.2)

Public Involvement / Participation (4.2.2) *You are required to comply with State, Tribal and local public notice requirements when implementing a public involvement/ participation program. You must document the program development process and the implementation of a storm water public education and outreach program.*

A. Indicate how the public was involved in the development and submittal of your Storm Water Management Program (SWMP). The program was developed in 2002-2003 and activities occurred at that time.

- Council Meetings Public Hearing Advisory Panel
- Public Comments Public Concerns Other: (Describe) Ongoing participation and involvement with the education program (see C. below)

B. Which activities did the public participate in? *Mark all that apply:*

- Program Planning Stenciling Stream Cleanup City Sweep Monitoring
- Wetland Planting Re-Forestation Other: (Describe) Household Hazardous Waste Collection, Electronics Recycling Program, Workshops, Seminars, Volunteer Efforts at Constructed Wetlands for SW Treatment Project, Public Education Program (24 events)

C. Describe at least one activity, the participant, and the participant's demographic characteristics that took place during this reporting year. If none, explain why: During this reporting period the City worked closely with the Aiken County teachers, school board members (2), University staff and the City of North Augusta Arts and Heritage Center in our teamed Brick Pond Park education program. Meetings were held several times to determine what was working and what could be changed. One on one meetings with teachers were held to ascertain the adequateness of the program, the lesson plans, and the time frames for each participating school to attend. Once planned, the teachers and parent chaperons all converged to the city Municipal Center to learn more about stormwater pollution prevention, the history of the area, and then on down to the stormwater treatment wetland to conduct experiments, monitor water quality, and learn about all the processes and wildlife that are necessary for the system to clean stormwater pollution.

Participant:

Four local elem. schools

Participant Demographic:

- Residential
- Commercial
- Industrial
- Institutional

Activity:

- Program Planning
- Stenciling
- Stream Cleanup
- Street Sweep
- Wetland Planting
- Monitoring
- Re-Forestation
- Other:(Describe) ONGOING PUBLIC PRIVATE STORMWATER EDUCATION PARTNERSHIP

D. Evaluate the success of this MCM:

Answer each question:

- a. Does your plan include measurable goals for this MCM? Yes No
- b. Did you meet the due date listed in your permit schedule for:
 - Full development of this MCM? Yes No (Year 1 Reporting Only)
 - Full implementation of the MCM? Yes No
- c. Did you measure the program's success against the selected goals? Yes No
- d. Rank the program's success as determined by the evaluation: Successful Needs Improvement

Table 3: MCM #2 Summary Activities for 2010 & 2011

Date	Activity	Participants
09/13/2010	ISM 2010 Presentation and Guided Tour of BPP Stormwater Treatment Wetland	100
10/13/2010	NA Elem BPP Education Program	150
10/15/2010	Sweetwater Church Group – Stormwater Treatment Wetlands (BPP)	60
11/18/2010	Aiken Tech Environmental Class-monitoring workshop	16
12/01/2010	Engineering Seminar – Regulatory Update	35
12/14/2010	North Augusta Pack Meeting – Stormwater Pollution Seminar	80
02/03/2011	East Coast Erosion Lunch & Learn	15
02/16/2011	Hammond Hills BPP Education Program	150
02/24/2011	Hammond Hills Career Day	120
02/25/2011	Mossy Creek Science Day	100
03/31/2011	Aiken Tech Environmental Class-monitoring workshop	19
04/13/2011	NA Leadership Academy BPP Tour	20
04/15/2011	Hammond Hills – Science Day	106
04/20/2011	Belvedere Elem – BPP Education Prog	150
05/14/2011	Household Haz Waste Collection Event	125
06/14/2011	Fairview Presby. Church After School Program	28
06/16/2011	Adventure Camp	55
06/23/2011	Adventure Camp	45
06/28/2011	Adventure Camp	45
06/30/2011	Adventure Camp	40
06/28/2011	Fairview Presby. Church After School Program-BPP Education Program	18
08/09/2011	Aiken Tech Environmental Class – Monitoring workshop	15
09/09/2011	Ga Cyber Academy Homeschool Assoc BPP Program	150
09/21/2011	Paul Knox – Career day	50
	<i>Total for period</i>	<i>1692</i>

MCM #3 Illicit Discharge Detection and Elimination (4.2.3)

Illicit Discharge Detection and Elimination (4.2.3) *The permit requires each MS4 to develop, implement, and enforce a program to detect and eliminate illicit discharges as defined in South Carolina Water Pollution Control Permits Regulation 61-9 122.26(b)(2).*

A. Have you developed a program to detect and eliminate illicit discharge?

Yes No If "No" what is your target date?

Have you implemented a program to detect and eliminate illicit discharge?

Yes No If "No" what is your target date?

Have you enforced a program to detect and eliminate illicit discharge)?

Yes No If "No" what is your target date?

B. Provide your most up-to-date storm sewer map. Hard copy attached: Yes No (Why) Note: ***The storm sewer map is located as Appendix A at the end of this report.***

C. Do you have a mechanism that prohibits illicit discharges? Yes No

D. Describe your procedures for locating priority areas.

- Areas with older sanitary sewer lines. Name an area as an example: Hammond Hills
- Business concerns. Describe a concern as an example: Cleaning restaraunt equipment outside near stormdrains
- Commercial concerns. Describe a concern as an example: Draining fluids from equipment and allowing them to flow into storm conveyances.
- Industrial concerns. Describe a concern as an example. Maintaining detention ponds and infrastructure
- TMDL Evaluation. Result: Completed a mapping project of all storm outlets draining into stream.
- Impaired Water Body. Name water body: *Pretty Run Creek*
- Citizen complaints. Give an example: Creek is discolored, investigation reveals upstream slope failure
- Wetlands/Critical Area, Public Beaches, Shellfish Beds, or other coastal concerns. An assessment of critical areas was completed in July 2011. A total of 208 field assessments were done and a brief report was prepared identifying environmentally sensitive land areas and the potential effects of future development on water quality, wetlands, endangered species and stormwater drainage.
- Other. Describe and/or give example:

E. Describe your procedures for tracing the source of illicit discharges.

- | | | | |
|--|---|--|--|
| <input checked="" type="checkbox"/> Areas with sanitary sewer lines: | <input type="checkbox"/> Dry weather outfall screenings | <input checked="" type="checkbox"/> Site visit | <input type="checkbox"/> Questionnaire |
| <input checked="" type="checkbox"/> Areas with septic tanks: | <input type="checkbox"/> Dry weather outfall screenings | <input checked="" type="checkbox"/> Site visit | <input type="checkbox"/> Questionnaire |
| <input checked="" type="checkbox"/> Business concerns: | <input type="checkbox"/> Dry weather outfall screenings | <input checked="" type="checkbox"/> Site visit | <input type="checkbox"/> Questionnaire |
| <input checked="" type="checkbox"/> Commercial concerns: | <input type="checkbox"/> Dry weather outfall screenings | <input checked="" type="checkbox"/> Site visit | <input type="checkbox"/> Questionnaire |
| <input checked="" type="checkbox"/> Industrial concerns: | <input type="checkbox"/> Dry weather outfall screenings | <input checked="" type="checkbox"/> Site visit | <input type="checkbox"/> Questionnaire |
- Citizen complaints: Give an example: A residential complaint that a neighbor was draining mud into Savannah River. Investigation revealed a construction site without permits. Enforced permitting requirements, BMP use, and corrective actions.
- Other: Describe and/or give example: The city has a very active CMOM program. Many lines have been tested throughout the city for leaks. All problems found are repaired.

F. Describe your enforcement procedures for removing the source of the illicit discharge. *Mark all that apply:*

- Site inspections
- Record of Findings
- Notice of Findings to Responsible Party
- Notice to Eliminate Discharge
- Notice to Eliminate Pollutant Source
- Written Due Date for Elimination
- Stop Work Order
- Follow-up Site Visit
- Notice to Appear Before Judicial Authority
- Fees/Penalties Maximum Amount: \$500.00
- Corrective Action/Charge to Responsible Party
- Other: Describe. An Enforcement Response Plan has been prepared and implemented for North Augusta.

G. What method have you used to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste? *Mark all that apply*

Public Employees

Businesses

General Public

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Training Class | <input checked="" type="checkbox"/> Direct Mail | <input checked="" type="checkbox"/> Direct Mail |
| <input type="checkbox"/> Paystub Inserts | <input checked="" type="checkbox"/> Bill Inserts | <input checked="" type="checkbox"/> Bill Inserts |
| <input checked="" type="checkbox"/> Staff Meeting | <input checked="" type="checkbox"/> Site Visits | <input checked="" type="checkbox"/> Public Meetings |
| <input checked="" type="checkbox"/> On the Job Training | <input checked="" type="checkbox"/> Phone Calls | <input type="checkbox"/> Radio |
| <input checked="" type="checkbox"/> Other: Describe
mandatory training | <input checked="" type="checkbox"/> Seminars | <input type="checkbox"/> TV |
| | <input checked="" type="checkbox"/> Other: Describe Newspaper articles | <input checked="" type="checkbox"/> Other: Describe Volunteer opportunities to assist SWMD projec |

H. Evaluate the success of this MCM:

Answer each question:

- a. Does your plan include measurable goals for this MCM? Yes No
- b. Did you meet the due date listed in your permit schedule for:
- | | | |
|---------------------------------|---|-----------------------------|
| Full development of this MCM? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Full implementation of the MCM? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Enforcement of the MCM? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- c. Did you measure the program's success against the selected goals? Yes No
- d. Rank the program's success as determined by the evaluation: Successful Needs Improvement
- e. If your evaluation found the program needs improvement, explain why by marking all that apply:
- No goals were established
 - Goals were not established early enough in the program to provide guidance to staff
 - Unclear, immeasurable, or unrealistic goals
 - Insufficient funding
 - Insufficient staffing
 - 1st year reporting – program under development
 - Insufficient regulatory mechanism (ordinance)

Table 4: MCM #3 Total Wastes Removed from Community

Storm Drain Cleaning

Year	Item	Number of Drains Cleaned	Pollutants Removed (tons estimated)
2010 (Sept – Dec)	Storm drains cleaned	68	2.21
2011 (Jan – Aug)	Storm drains cleaned	218	7.08

Litter Pick-up Program

Year	Item	Pollutants Removed (tons)
2010 (Sept – Dec)	Litter pickup roadsides	4.91
2011 (Jan – Aug)	Litter pickup roadsides	13.86

Street Sweeping

Year	Street Sweeping	Pollutants Removed (tons)
2010 (Sept – Dec)	Street Sweeping (546 miles)	56.30
2011 (Jan – Aug)	Street Sweeping (881 miles)	146.50

Household Hazardous Waste Collections

Year	Types of items collected	Pollutants Removed (tons)
2010	Paint, oils, gasoline, pesticides, herbicides	4.93 (see table next page)

E-Waste Recycling

Year	Types of items collected	Pollutants Removed (tons)
2010 (Sept – Dec)	Computers, monitors, electronics etc.	22.75
2011 (Jan – Aug)	Computers, monitors, electronics etc.	32.99

Storm Pipe Repairs

Year	Item	(ft)
2010 (Sept – Dec)	Storm Pipes repaired or installed	320
2011 (Jan – Aug)	Storm Pipes repaired or installed	180

Table 5: Household Hazardous Waste collected 05/14/2011

2010 Household Hazardous Waste Collection Event Totals (from manifest)			
Hazardous Waste Collected	lbs	Tons	
Waste Aerosol	268	0.134	
Waste Pesticides liquid	136	0.068	
Waste Propane	19	0.0095	
Waste Flam Liquid (Acetone, toluene)	276	0.138	
Waste Sod Hypochlorite	100	0.05	
Waste pest solid	126	0.063	
Waste corrosives	102	0.051	
Waste Hg	5	0.0025	
Waste Caustic	768	0.384	
Florescent Light bulbs	43	0.0215	
Waste Paint	4565	2.2825	
Waste Oxidizing liquid	100	0.05	
Waste Gasoline	318	0.159	
Waste Oil	2190	1.095	
Waste non-regulated	480	0.24	
Waste Asbestos	319	0.1595	
Waste Matches	10	0.005	
Waste Batteries	36	0.018	
Total	9861	4.9305	

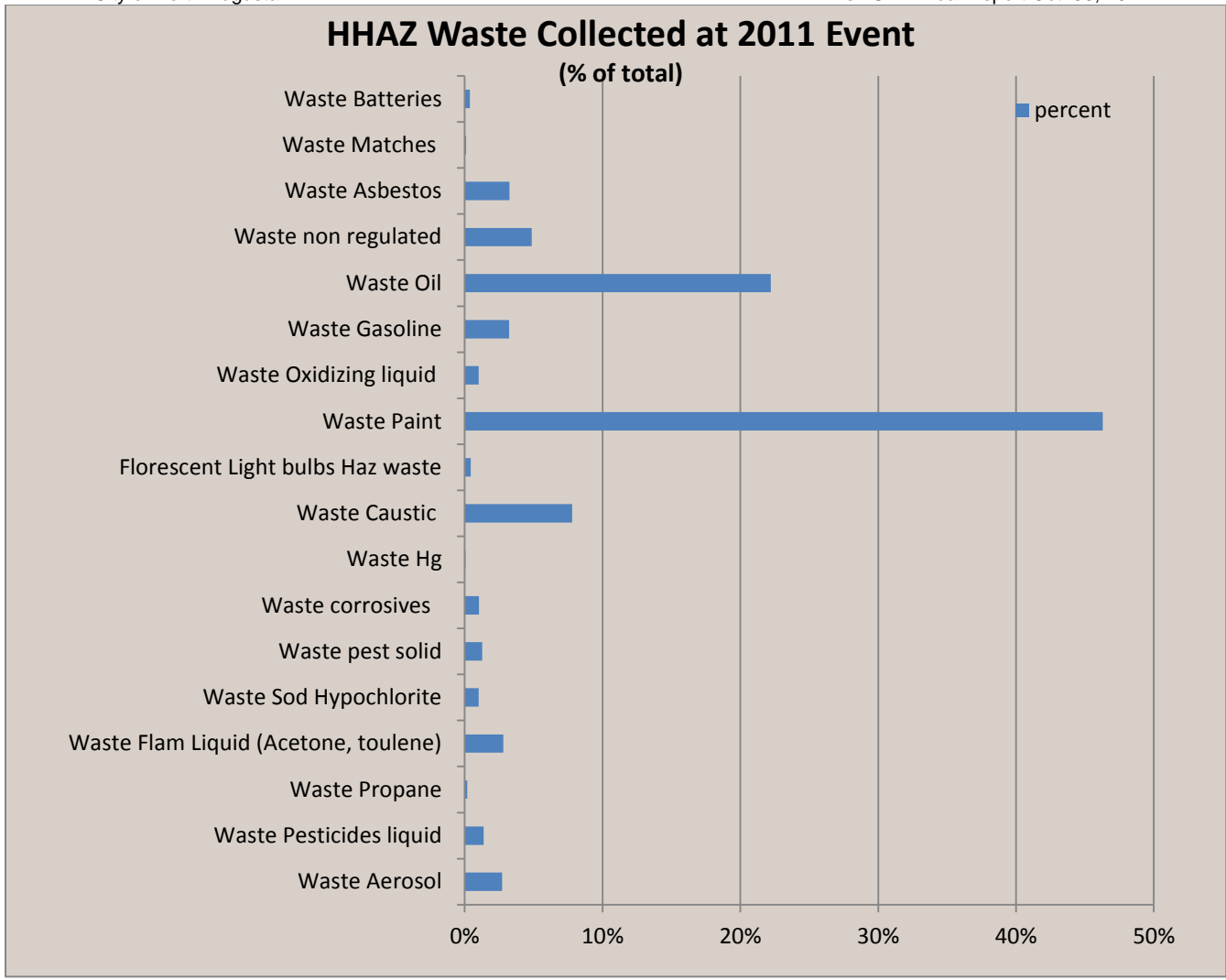


Figure 1: Household Hazardous- Percentage of Each Type (reporting period)

MCM #4 Construction Site Storm Water Runoff Control (4.2.4)

Construction Site Storm Water Runoff Control (4.2.4) *The permit requires each MS4 to develop, implement, and enforce a program to reduce pollutants in any storm water runoff to your regulated SMS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of pollutants in storm water discharges from construction activity disturbing less than one acre must be included in your program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.*

A. Does your plan include the following elements? *Mark all that apply:*

- Ordinance or other mechanism to regulate construction site runoff
- Sediment and erosion control Best Management Practices (BMP) requirements
- Record keeping for rainfall and inspections
- Waste controls for discarded building materials
- Waste controls for concrete truck washout
- Waste controls for chemicals
- Waste controls for litter
- Waste controls for sanitary waste
- Procedures for site plan review

- Verification plan includes consideration of potential water quality impacts
- Quantitative & qualitative assessment for Pollutant of Concern for projects >25 acres at 303D waters
- Procedures for receipt and consideration of information submitted by the public

B. Does your regulatory mechanism have sanctions to ensure compliance, including an enforcement component?

Yes No If “Yes”, which of the following does your MS4 use? *Mark all that apply:*

- Verbal warnings
- Written warnings
- Stop-work orders
- Fines/Penalties Maximum amount \$500
- Performance bonds/forfeiture procedures
- Withholding Certificate of Occupancy
- Permit Denial
- Fee, Explain:
- Other: Magistrates Court, City repair of problem at owners expense, performance guarantees/letter of credit.

C. Does your plan include a procedure that describes when specific sanctions listed in Question “B” above are to be used to ensure compliance? Yes No

D. Describe your procedures for site inspections. *Mark all that apply:*

- Prioritize sites for inspection
- Give notice upon arrival at site
- Verify correct paperwork is on site
- Examine construction entrance
- Check perimeter controls
- Verify temporary vegetation established by due date
- Look for eroded areas
- Verify sediment and erosion control devices installed per plan
- Inspect ponds
- Look for sediment leaving site
- Look for sediment in waters of the state
- Verify land disturbance ends at permit boundaries

E. Describe your plan for prioritizing sites for inspection. Mark all that apply by ranking them according to your prioritization plan. (*Click to the left of N/A and Press F1 for help.*)

- 1 TMDL consistency
- 1 Impaired waters concern
- 1 Water quality concern
- 2 Roads/drainage adoption
- 1 Citizen complaints
- 1 Geographical location
- 2 Size of project
- 1 Past performance of Responsible Party
- 2 Project Closeout
- 2 Request from Responsible Party

F. Evaluate the success of this MCM.

Answer each question:

- a. Does your plan include measurable goals for this MCM? Yes No
- b. Did you meet the due date listed in your permit schedule for:
- Full development of this MCM? Yes No (1st Year Reporting)
 - Full implementation of the MCM? Yes No (1st Year Reporting)
 - Enforcement of the MCM? Yes No (1st Year Reporting)
- c. Did you measure the program's success against the selected goals? Yes No
- d. Rank the program's success as determined by the evaluation: Successful Needs Improvement
- e. If your evaluation found the program needs improvement, explain why by prioritizing all that applies:
(Click to the left of N/A and Press F1 for help.)
- N/A No goals were established
 - N/A Goals were not established early enough in the program to provide guidance to staff
 - N/A Unclear, immeasurable, or unrealistic goals
 - N/A Insufficient funding
 - N/A Insufficient staffing
 - N/A No construction projects took place in the MS4 area to provide an opportunity to evaluate success
 - N/A Insufficient regulatory mechanism (ordinance)
 - N/A Other: Explain

MCM#4 Details for North Augusta SWMD Activities

Permit Approval Records Below include *Partial Details* (size of disturbance, date of approval, notes, basin, and other details are recorded but not presented here due to space limitations)

Table 6: Permits Issued and Fees Collected 9/1/10 – 12/31/10

date application submitted+ fees received	Permit #	Project Name	Size acres disturbed	Date Approved by SW Dept	DHEC Fee Collected	Sent to DHEC
9/16/2010	pend	Wando Woodlands Ph IIB	14.7	pend	\$ 125.00	Carried over still pending
9/30/2010	-	Kenrick's Convenience Inc	<1	n/a		
10/22/2010		Woodstone Ph III	9.7	pend	\$ 125.00	08/03/2011 *see below
11/30/2010	same	Bergen West PH II resub	28.8	11/12/2010	Mod only	

Total fees to DHEC (this period) \$0

Table 7: Permits Issued and Fees Collected 1/1/11 – 08/31/11

date application submitted+ fees received	Permit #	Project Name	Size acres disturbed	Date Approved by SW Dept.	DHEC Fee Collected	Sent to DHEC
10/22/2010	11080301	Woodstone Ph III	12.2	8/3/2011	\$ 125.00	*8/3/2011
1/11/2011	n/a	Posey FH Parking lot	0.3	1/26/2011	n/a	n/a
2/1/2011	n/a	The BhatiTract	0.2	5/9/2011	n/a	n/a
2/11/2011	n/a	Springrove Baptist Exp	0.3	2/11/2011	n/a	n/a
4/18/2011	n/a	Posey FH expansion MOD	0.8	5/4/2011	n/a	n/a
4/18/2011	11071101	Riverview Park Renovation	15.4	7/11/2011	\$ 125.00	7/11/2011
4/28/2011	11072201	McDonalds Hwy 25	2.1	7/22/2011	\$ 125.00	7/22/2011
5/4/2011	n/a	Bergen West Ph II mod	no change	6/9/2011	n/a	
5/4/2011	n/a	SKUKN Inc parking lot mod	0.85	7/7/2011	n/a	
5/11/2011	11051901	Hippodrome Grading	15.9	5/19/2011	\$ 125.00	5/19/2011
5/17/2011	n/a	Briggs Place, Bruker	0.65	5/18/2011	n/a	
6/10/2011	11070101	Bob Richards toyota	5.9	7/1/2011	\$ 125.00	7/1/2011
6/10/2011	n/a	Ambiopharm Inc.	0.5	8/8/2011	n/a	
7/19/2011	11081801	Laruel Lake Commercial SD	2.3	8/18/2011	\$ 125.00	8/19/2011

Totals Fees to DHEC

\$ 750.00

Table 8: 2010 INSPECTION DETAILS 9/1/10 – 12/31/10							
Months	SAT	UNSAT	MARG	C&D	Total Insp.	COMP	NONCOMP
September	23	0	2	0	25	25	0
Total 3rd Qtr	64	0	6	1	71		
Percent	90%	0%	8%	1%		99%	1%
October	20	2	2	0	24	22	2
November	21	0	2	0	23	23	0
December	19	0	2	0	21	21	0
Total 4th Qtr	60	0	6	0	66		
Percent	91%	0%	9%	0%		100%	0%
Partial Total	124	0	12	1	137		

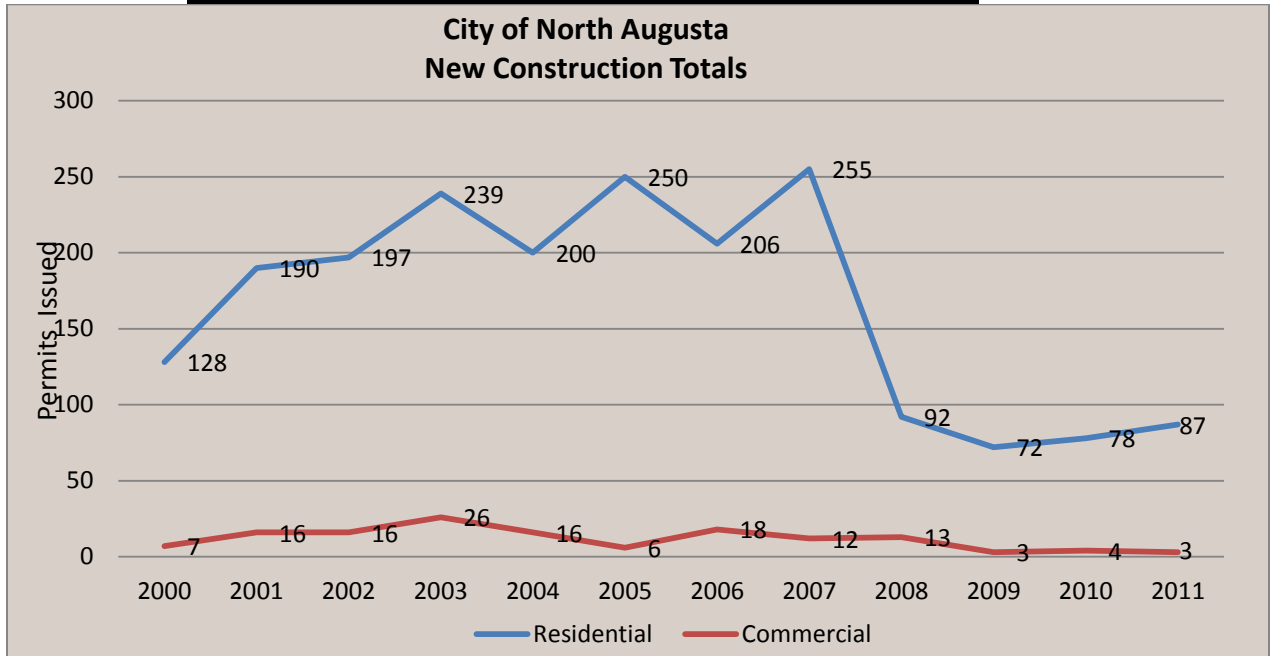
Table 9: 2011 Inspection Details 01/01/2011 – 08/31/2011							
Months	SAT	UNSAT	MARG	C&D	Total Insp.	COMP	NONCOMP
January	23	0	0	0	23	23	0
February	24	0	0	0	24	24	0
March	23	1	0	0	24	23	1
Total 1st Qtr	70	1	0	0	71		
Percent	99%	1%	0%	0%		99%	1%
April	21	3	0	1	25	21	4
May	24	1	0	0	25	24	1
June	25	2	0	0	27	0	2
Total 2nd Qtr	70	6	0	1	77		
Percent	91%	8%	0%	1%		91%	9%
July	21	2	0	1	24	21	3
August	20	5	1	0	26	21	5
September							
Total 3rd Qtr	41	7	1	1	50		
Percent	82%	14%	2%	2%		84%	16%
Annual Total	181	14	1	2	198		
Annual %Comp	91%	7%	1%	1%		92%	8%

City of North Augusta Construction BMP Compliance

In analyzing the compliance rates for this reporting period, our inspection and oversight efforts have continued to be effective. Lower than average rainfall and construction during the reporting period resulted in a good overall compliance rating. North Augusta

continues to see low development rates at the present time (see 2000-2011 Summary below). Active construction projects in the city are at a ten year low. There is a continued shortage of rainfall in our area.

Figure 2: Annual Construction Total Permits Issued



MCM #5 Post-Construction Storm Water Management in New Development and Re-development (4.2.5)

Post-Construction Storm Water Management in New Development and Re-development (4.2.5) *Within 18 months from the effective date of this permit, you must develop, implement, and enforce a program to address storm water run-off from new development and redevelopment projects within your jurisdiction that disturb one acre or greater, including projects less than one acre that are part of a larger common plan of development or sale that discharge into your small MS4. Your program must ensure that controls are in place that would prevent or reduce water quality impacts. You must also select and implement a program of appropriate BMPs and measurable goals for this minimum control measure.*

A. Is there an ordinance or other regulatory mechanism in place to control post construction runoff from new development or redevelopment? Yes No If “No”, target date for passage:

B. Is your program designed to address the needs of your local community? *Answer all questions:*

- Yes No Does your program address runoff from new Development?
- Yes No Does your program address runoff from Redevelopment?
- Yes No Does your plan include any specific priority areas for this program?
- Yes No Does your plan describe how your program is specifically tailored for your local community?
- Yes No Does your program minimize water quality impacts?
- Yes No Does your program attempt to maintain pre-development runoff conditions?

C. Which BMPs are used in your community? *Mark all that apply:*

- Policies or ordinance to direct growth to identified areas.
- Policies or ordinance to protect wetlands and riparian areas.
- Policies or ordinance to maintain or increase open space.
- Funding source to acquire open space.
- Policies or ordinance to provide buffers along sensitive water bodies.
- Policies or ordinance to minimize impervious surfaces.
- Policies or ordinance to minimize disturbance of soils and vegetation.
- Policies or ordinance that encourage infill development in higher density urban areas.
- Policies or ordinance that encourage development in areas with existing storm sewer systems.
- Education programs for developers about project designs that minimize water quality impacts.
- Education programs for the public about project designs that minimize water quality impacts.
- Measures to minimize percentage of impervious area after development.
- Measures to minimize directly connected impervious areas.
- Good housekeeping measures.
- Preventative maintenance measures.
- Spill prevention measures.
- Storage practices such as wet ponds or extended detention outlet structures.
- Filtration practices such as grassed swales, bio-retention cells, sand filters, or filter strips.
- Infiltration practices such as infiltration basins and infiltration trenches.
- Other: Describe

D. Describe your plan to ensure long-term operation and maintenance of post construction BMPs. *Mark all that apply:*

- Maintenance agreement between structure owner and MS4 governmental entity (commercial development stormwater ponds only, pond maintenance agreement provided at time of NOI submittal if other than the developer)
- Maintenance agreement between (new) structure owner and developer.
- MS4 enforces agreements between (new) structure owner and developer.

- MS4 assumes maintenance (for all residential subdivision ponds and water quality devices that are dedicated to the city as part of the city storm sewer system).
- MS4 assumes maintenance and bills owner.
- MS4 conducts maintenance and bills owner only if owner fails to maintain through our illicit discharge ordinance.
- Other: Describe: City annually inspects post-construction structures and notifies owner if a problem exists. City conducts follow-up inspection and further contact with owner when necessary.

Table 10: City Owned Ponds Cleaned/Repaired

Year	Item	Number of Ponds	Pollutants Removed (tons)
2010 (Sept – Dec)	Stormwater ponds, devices	14	0.6
2011 (Jan – Aug)	Stormwater ponds	3	0

E. Evaluate the success of this MCM.

Answer each question:

- a. Does your plan include measurable goals for this MCM? Yes No
- b. Did you meet the due date listed in your permit schedule for:
 - Full development of this MCM? Yes No (1st Year Report)
 - For full implementation of the MCM? Yes No (1st Year Report)
 - Enforcement of the MCM? Yes No (1st Year Report)
- c. Did you measure the program’s success against the selected goals? Yes No
- d. Rank the program’s success as determined by the evaluation: Successful Needs Improvement
- e. If your evaluation found the program needs improvement, explain why by prioritizing all that apply:
 - No goals were established
 - Goals were not established early enough in the program to provide guidance to staff
 - Unclear, immeasurable, or unrealistic goals
 - Insufficient funding
 - Insufficient staffing
 - No redevelopment projects took place in the MS4 area to provide an opportunity to evaluate success
 - No new development projects took place in MS4 area to provide an opportunity to evaluate success
 - Insufficient regulatory mechanism (ordinance)
 - Other: Explain

MCM #6 Pollution Prevention / Good Housekeeping for Municipal Operations (4.2.6)

Pollution Prevention / Good Housekeeping for Municipal Operations (4.2.6) *The permit requires each MS4 to develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Your program must include employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water maintenance.*

- A.** Do you have an operation and maintenance program currently in place?
 No If "No" what is your target date?
 Yes If "Yes" name the municipal operations that are included in this O&M program. *Mark all that apply:*
- Parks and recreation area maintenance
 - Fleet maintenance
 - Building maintenance
 - New construction/land disturbance (municipal projects)
 - Storm water system maintenance
 - Other: Describe: Sewer system maintenance
- B.** Do you have procedures/controls to reduce floatables and other pollutants to your storm sewer system?
Mark all that apply:
- Maintenance activities
 - Maintenance schedules
 - Long-term inspection plans
 - Street, road, highway maintenance
 - Waste transfer station maintenance
 - Fleet or maintenance area controls
 - Salt/sand storage area maintenance
 - Snow disposal area maintenance
 - Proper disposal of waste removed from the storm sewer system: dredge spoil, sediments, and debris
 - Water quality assessments for new flood management projects
 - Assessment of existing flood management projects to determine additional needed controls
- C.** Does your plan contain an employee-training component? *Answer each question.*
 Yes No Public employee training designed to reduce polluted runoff from municipal operations.
 Yes No Employee training record retention.
- D.** Does your governmental entity own any industrial facilities that discharge to your storm sewer system?
 Yes No If "Yes" give the name of the facility and list its SCDHEC NPDES permit number, or include a copy of the Notice of Intent (NOI).

Facility Name	Permit Number	Notice of Intent Attached
North Augusta Material Recovery Facility	<u>SCR001252</u>	No
North Augusta Clay Pit	<u>SCG730169</u>	No

E. Evaluate the success of this MCM.

Answer each question:

- a. Does your plan include measurable goals for this MCM? Yes No
- b. Did you meet the due date listed in your permit schedule for:
Full development of this MCM? Yes No (Year 1 Report Only)
Full implementation of the MCM? Yes No
- c. Did you measure the program's success against the selected goals? Yes No
- d. Rank the program's success as determined by the evaluation: Successful Needs Improvement
- e. If your evaluation found the program needs improvement, explain why by marking all that apply:
- No goals were established
 - Goals were not established early enough in the program to provide guidance to staff
 - Unclear, immeasurable, unrealistic goals
 - Insufficient funding
 - Insufficient staffing
 - 1st year reporting – program under development
 - Other, explain

MCM#6 Activity Examples

All employees of the city have attended a training seminar in 2008 with handouts describing SW impacts from municipal operations, how to spot stormwater impacts, reporting of impacts, hazardous spill cleanup, and proper operation and maintenance of equipment regarding stormwater impacts. This training has been followed up with department specific training in 2011.

- In this period, departments that directly impact land disturbance, landscape maintenance, or equipment maintenance routinely meet and discuss stormwater impacts and how to work to prevent them. Friday morning meeting topics range from Safety to Stormwater BMPs. All employees are required to document this training activity. Training records are located at the SWMD and on the Information System "Alchemy".
- In 2011, the city Operations Facility stormwater department employees worked to clean and replace filters on inlet protection devices located at the facility (quarterly). The staff routinely clean and continually monitor stormwater ponds and other devices to help prevent pollutants from entering the system and impacting local waterways.
- The City is maintaining and conducting a five year study on the constructed stormwater treatment wetlands located below the new Municipal Center and Riverfront development area. Results of the study are used to improve function of the system and provide additional information regarding the system. The Brick Pond Park Stormwater Education partnership is in place, and the City is hosting three schools this year.

Special Conditions

1. Discharges to Impaired Water Bodies

Section 3.1 of the permit requires that you describe how implementation of your Storm Water Management Program will provide Reasonable Assurance that discharges will not cause or contribute to violations of water quality standards in Impaired Water Bodies. Answer each question below.

Yes No Have you determined whether your storm sewer system discharges to an Impaired Water Body? If "No", what is your target date for completing the determination?

Yes No If the determination has been done: does your storm sewer discharge to an Impaired Water Body?

If yes, list the name(s) of the Impaired Water Bodies and the pollutant of concern for each Water Body.
Pretty Run Creek - Fecal coliform

If yes: Provide a brief summary of the measures and BMPs that provide Reasonable Assurance that your discharges will not cause or contribute to violations of water quality standards in Impaired Water Bodies. Target outreach to the community regarding animal wastes and septic tank repair and upkeep. Evaluate additional construction within the waterbody area more stringent review for potential impacts to the stream. Working with residents to stabilize banks and minimize impacts in residential neighborhoods.

2. Consistency with Total Maximum Daily Load Allocations (TMDL)

Section 3.1 of the permit requires that you incorporate any limitations, conditions and requirements contained in the TMDL applicable to your discharges, if any, including monitoring frequency and reporting required, in order to be eligible for permit coverage. Answer each question.

Yes No Have you determined whether your storm sewer system discharges to a water body with an established TMDL?

If No, what is your target date for completing the determination?

Yes No If the determination has been done: Does your storm sewer discharge to a water body with an established TMDL?

a. If Yes, list the name(s) of the Water Body and the pollutant of concern listed in the TMDL for each Water Body.

Pretty Run Creek - Fecal coliform

b. If Yes, list applicable limitations, conditions, and requirements contained in the TMDL implementation plan attributed specifically to your MS4. **TMDL: reduction of FC loads by 31%**

c. If Yes, explain how your plan incorporates those limitations, conditions, and requirements.

In 2011, the Pretty Run stream was walked to learn every outfall leading into it, all found were mapped with GPS and added to our SW Map. Our plan incorporates items specifically to address Pretty Run Creek. Over the next five year period, stormwater discharges directly to Pretty Run Creek will be evaluated and reduced or treated prior to discharge into the system specifically to prevent fecal coliform from impacting the stream. Treatment technologies for fecal coliform reduction will be assessed. The city will also continue to inspect and monitor the sanitary sewer system that runs adjacent to the stream. Education and outreach will continue.

All new developments proposed in the City of North Augusta are required to treat the first one inch of rainfall prior to it being discharged from the site. Project proposed in this watershed are scrutinized closely to prevent further impacts to the stream. The ability to reduce pollutants from all current and future construction within the watershed will protect Pretty Run Creek.

3. Pollutant Reduction Success Assessment

Section 5.3.2 of the permit requires that you submit the results of monitoring data, if you conducted monitoring. If you conducted monitoring, the results must be submitted on a Discharge Monitoring Report (DMR). Attach any DMRs for Year 1 to this Questionnaire.

Yes No Did you conduct any monitoring during the reporting year?
If no, do not answer the question below. No outfall sampling.

Yes No Have you attached your DMRs to this report?

				<div style="border: 1px solid black; padding: 2px;"> S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed </div>			
BMP	2008	2009	2010	Measurable Goal	2010-2011 Measure/Assessment	Met?	
1. Public Participation/Involvement							
Volunteer Storm Drain Stenciling/markings	X	X	x	90% of Drains were marked in the first 5 years of the program. The program is ongoing and replacement markers are now being installed.	The city has marked 90% of drains in pedestrian areas through the SWMD internship program. . All new storm drain lids have permanent markings.	yes	
City-School Partnership Program	X	X	x	By May 2003, meet with representatives from all public and private schools within the City.	Team has developed 5th grade environmental education initiative at the Brick Pond Park stormwater treatment wetland. Hundreds of students from several schools have participated.	yes	
Meet with school representatives	X	X	x	By 2004, meet with each local school representatives to encourage participation with city SW program.	Meeting to discuss environmental education program for 5th graders across the city. Team School Board Member, School Principal, SWMD, and local educators.	yes	
Evaluate School Environmental program			x	Meet with school representatives yearly to assess and encourage implementation of environmental learning activities.	We have exceeded these goals in the past 2 years.	Yes	
Household Hazardous Waste Materials Collection Day	X	X	x	Hold this event yearly and survey participants to quantify volume and type of HHAZ collected annually.	Events held all years,	Yes	
2. Education and Outreach							
City-School Partnership	i	x	x	By May 2003 meet with representatives from all public and private schools within the City. Created partnership in 2008, started program in 2009. Third year of operation of program.	Brick Pond Park outdoor education program. (see details in education/outreach Table 2)	yes	

	2009	2010	2011		S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed	
BMP	9	0	1	Measurable Goal	2010-2011 Measure/Assessment	Met?
Establish Internship program with Universities.	X	X	x	Provide educational opportunities to local college students through an internship program in the SWMD.	To date, there have been eight SWMD interns involved in all aspects of SW management in NA including GIS mapping, storm drain construction, maintenance, BMP implementation, stream bank stabilization, and research at the sub basin level.	yes
Water Quality Brochures	X	X	x	Develop WQ brochures and education materials for public and professional use.	Stream type brochure completed in 2007. Available to Developers, Engineers, Citizens. A field guide to Brick Pond Park will be completed in 2011.	yes
Stormwater Fact Sheets	X	X	x	Create stormwater fact sheets to give out at meetings, seminars, and mailings.	Stormwater Brochures available at city offices and all events.	yes
Water Quality Poster Series		X	x	Display posters in public buildings and offer copies to businesses. (begin 2003)	Stormwater posters developed in 2010 and distributed to all local schools for display.	yes
Pollution Prevention Guides for Businesses	X	X	x	Develop an automotive shop stormwater pollution prevention guide for dissemination to all shops within the City in 2003. Develop a similar guide for restaurants in 2004	Pollution prevention guides are available and distributed during inspections (DHEC guides).	yes
Stormwater Internet Web Pages	X	X	x	A comprehensive stormwater management internet pages are located on the city website.	All data at the stormwater management pages has been updated in 2010-2011 timeframe.	yes
Storm Drain Stenciling/Curb Marking	X	X	x	Install markers on 90% of the storm drains exposed to pedestrian traffic by 2007. Begin by installing 165 markers in 2003.	Storm drain marking program ongoing. Completed 90% of marking in pedestrian areas.	yes
Water Quality Seminars	X	X	x	Low impact development seminar (2004 & 2006)	Item completed. Ongoing outreach efforts.	yes

	2009	2010	2011		S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed	
BMP	9	0	1	Measurable Goal	2010-2011 Measure/Assessment	Met?
Pollution Reduction Documentation	X	X	x	Identify and estimate the percentage reduction attained in the area of floatables discharged into local waterways and document findings.	Documentation on street sweeping, drain cleaning, and street vacuuming are being collected through the scales facility at the recycling facility. The data is being presented in this report.	yes
North Augusta Forward Newsletter	X	X	x	Include SW educational information in NA Forward newsletter. (quantify number of copies delivered to residents)	The NA Forward ran two articles regarding the SWMD program in 2008. This newsletter reaches all citizens and continues to provide updates on SWMD issues when necessary.	yes
The Resource (stormwater Newsletter)	X	X	x	Develop newsletter to inform the public about water quality issues. Conduct 2 mailings per year to all households and businesses. Two additional mailings per year may be used for event notification (e.g. Hazardous Materials Collection Day, Composting Seminar, etc...) for a total of 4 yearly mail-outs. (2003-2007)	Newsletter published 4 times per year and is distributed to all households and businesses that receive a utility bill. 12,000+ per quarter	yes
Household Hazardous Waste Materials Collection Day	X	X	x	This will be a yearly event. The initial event will be held by fall 2003.	This event has been held every year as an annual event. Participation has been exceptional. Data included in this report.	yes
Kids Earth Day	X	X	x	Participate in Kids Earth Day annually. Determine number of kids participating in stormwater model demonstration.	Rained out in 2011	yes
3. Discharge Detection and Elimination						
Initial Identification of Illicit Discharge Sources	X	X	x	Number and type of illicit discharges will be documented for each year.	Accomplished 92% of drainage assessment within the city to date.	yes



	2009	2010	2011		S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed	
BMP	9	0	1	Measurable Goal	2010-2011 Measure/Assessment	Met?
Implement an Information management System for Tracking	I	x	x	This information will be included in annual reports and will detail the following:# of outfalls screened, #of IDs discovered during screening, #of IDs resolved	Implemented Alchemy in 2007 to store all SWMD data collected for the department. Implemented Track IT for SW Plan Review in 2009. In 2011, all databases are in full use and all information can be pulled from the IS systems in place.	yes
Household Hazardous Materials Collection Day	X	X	x	This will be a yearly event. The initial event will be held by fall 2003.	This event has been held every year as an annual event. Participation has been exceptional. Data included in this report.	yes
Storm Sewer System Map	X	X	x	The City will submit a topographical map listing primary outfalls and watersheds to SCDHEC with the NPDES permit NOI. A complete map, meeting all permit requirements, will be submitted in the fall of 2003.	In 2011 we began our QA/QC of the current map. Problems have been identified and certain streams "TMDL" have been mapped more extensively during this period. The map is updated to reflect field verifications. Work is ongoing. (see Figure 3: Appendix A)	yes
Water Resources Ordinance	I	X	x	The Water Resources Ordinance will be placed in effect in 2004.	The 2008 Development Code was adopted by City Council and includes comprehensive strategies to protect water quality and preserve sensitive space in the city through codes, planning, permitting, and enforcement. The SWMD continues to work to protect water quality.	yes
Used Oil Collection	X	X	x	Yearly notices will be sent to City residents via utility bills to remind them of this service.	Used oil is collected at the MRF in North Augusta. The oil is collected by utility companies for recycling. The waste oil facility is no longer in service at the MRF.	yes
Sanitary Sewer System Inflow and Infiltration Detection/Repair	X	X	x	By summer 2003 the Stormwater Management Department (SWMD) will, in conjunction with the Public Utilities Department develop an information sharing system.	This program is ongoing and all information is available via monthly reports posted on line.	yes

	2009	2010	2011		S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed	
BMP				Measurable Goal	2010-2011 Measure/Assessment	Met?
Storm Drain Curb Markers	X	X	x	City's effort to mark 90% of all storm drains exposed to pedestrian traffic within the first five-year permit term.	Storm drain marking program ongoing. Completed 93% of marking in pedestrian areas.	yes
Stormwater Management Guide for Businesses	X	X	X	Create a guide for businesses to help them understand stormwater management.	Ongoing activity. Fully implemented.	yes
Water quality monitoring	X	X	x	The list of outfalls of concern will be dynamic and will not be represented as permanent quarterly screening points on the storm sewer map. Secondary outfalls will be screened yearly.	In 2011, all streams were studied during drought conditions and one event during rainfall. Data is being compiled to determine next steps.	yes
4. Pollution Prevention/Good Housekeeping						
Develop Pollution Prevention Plan		X	x	Complete this plan in 2003.	completed	yes
Employee Training Materials	X	X	x	Maintenance Schedules (City equipment and infrastructure maintenance policies and schedules)	Follow-up training occurs on a department basis during monthly meetings.	yes



	2009	2010	2011				
BMP	9	0	1	Measurable Goal	<div style="border: 1px solid black; padding: 2px;"> S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed </div>	2010-2011 Measure/Assessment	Met?
Recycling	X	X	x	Recycling Efforts (City recycling policies and procedures)		Recycling data is compiled and recorded in monthly reports and is reported here in Table 4.	yes
Information Management System	X	X	x	Waste Disposal Guidelines (Addresses disposal of wastes such as vehicle service wastes, sediment removed from catch basins, landscaping debris, etc... from City operations). Areas of concern prioritized for correction.		Alchemy has been developed and is now in use at the City. All data collected in the SWMD program is available in that system and is available on line under the "documents library" of the website. Monthly reports reflect operations.	yes
Maintenance Schedule	X	X	x	Document and analyze program effectiveness		Storm box cleaning, street sweeping, storm pipe maintenance, and other SW infrastructure within the city are ongoing. Information regarding location of problems and repair schedules are logged. (see Table 4)	yes
Pollution Reduction	X	X	x	Yard waste composting seminar (2003, 2005, & 2007)		Street sweeping, litter pickup, and conducting education and outreach is ongoing.	yes
Street Sweeping	X	X	x	Quantity of trash collected per unit effort under the Adopt a Stream program for each year. Document volume of waste removed from streets annually.		Street sweeping data is being collected and is presented in this report (Table 4)	yes
Storm sewer Maintenance (jet/vac trailer and operator)	X	X	x	By 2007, purchase equipment and hire staff to begin a storm sewer maintenance program. Document number of drains cleaned and volume of waste removed from storm drains annually.		Equipment was purchased (street vacuum and Jetter Vacuum truck). Storm drain box cleaning is being conducted and the data is being presented in this report (Table 4)	yes

	2009	2010	2011				
BMP	9	0	1	Measurable Goal	<div style="border: 1px solid black; padding: 2px;"> S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed </div>	2010-2011 Measure/Assessment	Met?
Acquire leaf vacuum machine and train two operators.	X	X	x	May 2008 machine purchased and a training event was held on May 22, 2008. Two employees (1 S&D, 1 SWMD)		Machine has been acquired (2008) and staff are trained on its operation. The machine is being used routinely on city streets.	Yes
5. Construction Site Runoff Control							
Perennial Stream Habitat/Ecological Assessment	X	X	x	Stream habitat/ ecosystem assessments will be conducted for the primary stream in each watershed at a point close to the City perimeter during 2003. Follow-up assessments will be conducted years the next four years for comparison.		Assessments are ongoing. A water quality report describing the assessments to date has been completed. The data is available on our public website at www.northaugusta.net . A new website launch in Oct 2009 has been completed. The report is posted in the document library.	yes
Information Management System	X	X	x	An IS system is installed and being utilized by SWMD on the city's network.		Data management system is Alchemy and Permit Tracking through Trak-it software. All citizen complaints are maintained in the citywide action tracking system (CATs)	yes
Constr. Site Erosion and Sediment Control Ordinance			x	This system will be put into place in 2003.		completed	yes
Construction Site Inspection Program	X	X	x	Data will be collected on permitted construction site compliance rates for years 2004 – 2009.		In 2009, compliance tracking has shown a marked improvement in construction site BMP maintenance. The percentage increase reflects a substantially lower number of building sites due to the economic downturn and also less rainfall during the year. The compliance rate to date for 2010/2011 averages to 96%.	yes

BMP	2	2	2	Measurable Goal	<div style="border: 1px solid black; padding: 2px;"> S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed </div>	2010-2011 Measure/Assessment	Met?
	0	0	0				
	0	1	1				
	9	0	1				
Water Quality Monitoring	X	X	x	Streams that discharge to Savannah River will be sampled at the lowest point in the sub-basin they represent. Primary outfalls will be designated as such on the storm sewer map. Outfalls of concern are non-primary outfalls that based on initial screening, historical information, or testimonials, the Stormwater Management Department feels that frequent screening is warranted. The list of outfalls of concern will be dynamic and will not be represented as permanent quarterly screening points on the storm sewer map.		A baseline water quality report has been compiled and distributed to the community through workshops, seminars, media coverage, and web site accessibility. The report is a compilation of all data collected to date at the lowest point in each basin. Sampling at specific outfalls has not been done. Priority has been focused on stream water quality overall for the baseline report.	yes
Constr. Site Runoff Pollution Control Seminar			x	Construction site runoff pollution control seminar (Year 2004 & 2006)		See Education & Outreach Efforts listed 2010/2011 submitted in this report Table 2.	yes
Stormwater Management Manual	X	X	x	The Stormwater Management Manual will be completed in 2003. The manual will be updated periodically to document progress made in achieving each goal.		Complete and updated to 2010.	yes
Sediment & Erosion Control Manual	X	X	x	The Sediment & Erosion Control Manual will be completed in 2004. The manual will be updated periodically to document progress made in achieving each goal.		Complete and available on line and/or is available in hard copy format.	yes
Water Quality Manual	X	X	x	The Water Quality Manual will be completed in 2005. The manual will be updated periodically to document progress made in achieving each goal.		Complete and available on line and/or is available in hard copy format.	yes
Water Quality Design Seminar	-	-	x	Conduct WQ design seminar bi-annually.		Accomplished - see details in Education and Outreach details in report. A rain garden workshop was held in 2009.	yes
Residential Lot BMP Guidance Pamphlet	X	X	x	Create pamphlet for all builders working in the city.		Completed and distributed to all contractors within the city at time they pull permits	yes

	2009	2010	2011			
BMP	9	0	1	Measurable Goal	2010-2011 Measure/Assessment	Met?
	2009	2010	2011		<div style="border: 1px solid black; padding: 5px; text-align: center;"> S = scheduled, § = re-scheduled, I = implemented, X = ongoing C=completed R=removed </div>	
Conduct Constr.Site Pollution control seminars.				Conduct one training event in 2004 and one in 2006 geared towards contractors, developers and engineers.	Completed and ongoing on as needed basis. Engineering seminar 12/01/2010.	yes
6. Post-Construction Runoff Control						
Identif. of Developed Property WQ BMPs	X	X	x	Include BMPs in the City Stormwater Management Manual that will be completed in 2003.	All developed property BMPs are compiled within a report in the SWMD. The report is used for yearly evaluations of the systems.	yes
Implement Development WQ BMPs Ordinance	X	X	x	The Water Quality BMP Ordinance will be placed in effect in 2004.	completed	yes
Water Quality Incentives Program			x	Track number of customers utilizing the credit program to determine outreach efforts.	completed	yes
Stormwater Management Facility Inspection Program	X	X	x	Conduct yearly inspections of Stormwater Management facilities to ensure compliance with the SWM Ordinance and any written agreement between city and customer.	Post construction BMPs are inspected annually. Reports of maintenance needs are sent to owners.	yes
Storm sewer Maintenance (jet/vac trailer and operator)	X	X	x	By 2007, purchase equipment and hire staff to begin a storm sewer maintenance program. Document number of drains cleaned and volume of waste removed from storm drains annually.	Completed goal, data available in this report.	yes

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Appendix A**

Figure 3: CNA Storm Sewer & Outfall Map

