

CITY OF ANDERSON

MS4 ANNUAL REPORT 327 IAC 15-13 (Rule 13)

Control Measure Activities – Part C

9.(a) *MCM # 1 - Public Education and Outreach – Informing citizens about the impacts polluted storm water run-off can have on water quality and ways to minimize their impact.*

1. Provide the name of person, department, or organization responsible for overseeing public education and outreach. List partnerships and memorandum of understandings.

A: The City of Anderson Storm Water Department has the responsibility for overseeing its respective Public Outreach and Education activities. The City of Anderson has executed a MOU with seven (7) MS4 entities located in Madison County that collectively administer Public Outreach and Education, in addition to one (1) non-MS4 entity, the Madison County Soil and Water Conservation District.

2. List targeted audiences where outreach was directed (excluding schools). List number and percentage of targeted audiences reached. (restaurants, gas stations, dry cleaners, visitors, industrial facilities, construction site personnel, public employees, temporary residential students)

A: The targeted audiences were the general public, local contractors and commercial & industrial property owners. Two (2) city wide clean-ups in May and November of 2007 netted 277 tons of waste tires, white goods, paint and toxic materials. Seventy-five (75) residential pollution prevention brochures were distributed at the November event. Fifteen (15) concrete washout videos were distributed to local general contractors. The distribution method was person to person. Leaf bags were distributed with the residential brochures and booklets were distributed with the washout videos. Approximately thirty-five thousand (35,000) flood protection brochures were inserted into utility bills including a segment on beneficial functions of run-off reduction, riparian buffers and sediment reduction. Twenty (20) residential pollution prevention brochures were distributed by the MCSWCD at the Annual Earth Day Festival in April where approximately one thousand (1,000) citizens attended. Four (4) Water Pollution Control personnel also attended Earth Day and staffed displays on pretreatment, WQ monitoring, pollutant sampling activities, yard and garden recycling, including distribution of a brochure on recycling. Approximately two hundred (240) PSAs were broadcast on four (4) local radio stations during the month of April. The SWCD held a no-till field day in September, 2007. Topics included: no-till farming, wellhead protection and responsible fertilizer and pesticide application. In April, the City's Yard and Garden Recycling Center advertised in three (3) local newspapers and two (2) radio stations about the spring opening of the center, including information on materials accepted, cost and hours of operation.

3. What strategy was developed? What messages were used?

A: The strategy was to reach as many citizens as possible with messages that addresses a variety of storm water pollution prevention strategies. Methods used to distribute messages are public service announcements, printed material, newspaper, Internet, public meetings, training, utility bill inserts, annual clean-up events and City celebrations.

4. List educational programs/curricula/ special events designed for K-12. How many students were reached? What curricula or messages did you use? Did you utilize the Newspapers in Education program with your local newspaper?

A: The Director of Curriculum and Professional Development for Anderson Community Schools the Middle Schools was contacted in September, 2007, with the City of Anderson

Storm water Department offering to conduct pollution prevention presentations to students. ACS approved a presentation to ACS Middle School teachers in May 2008. The Newspapers in Education Program is not used.

In March, a forty-five minute presentation was given to 3rd grade students at Eastside Elementary School about Shady Run Creek. This creek flows through the school property, fields and neighborhoods picking up pollutants (especially grass and leaves) before it outfalls into Shadyside Lake, Killbuck Creek, and eventually White River. Also discussed was the combined sewer system and how improperly connected downspouts contributed to overflows. The 22 minute video "After the Storm" was viewed. The students were advised on various ways they could become involved with protecting waterways.

5. List what existing education programs are being utilized? (SWCD, Park Departments, Environmental Groups, Environmental Centers, etc.)

A: One (1) environmental group, White Rivers Watchers of Madison County, distributed brochures and offered canoe trips through town at their ten (10) year celebration. The City Park Department offers proper selection, planting, pruning and craft making activities in April. The Madison County Soil and Water Conservation District:

- conducted a pollution prevention presentation on Rule 5
- distributed two hundred (200) coloring books to children on storm water
- distributed thousand (2000) newsletters containing Rule 5 requirements
- set up a pervious concrete display on impervious concrete at the local 4-H fair;
- distributed "after the storm" pamphlets
- set up a Rule 5 display at the annual River Fest Celebration.

The City Park Department conducts workshops on tree planting, proper selection, pruning and craft making every year at the Annual Earth Day – Arbor Fest in April.

6. What partnerships/projects were implemented to avoid duplication? What role did a university play in the public education process?

A: The City, via MOU, funds PSA announcements on storm water pollution prevention every year during the month of April on four different radio stations. The City of Anderson is not aware of any public education activities performed by Anderson University.

7. Have you developed a storm water website? What is the web address? Can you measure the number of hits to the web site?

A: The City of Anderson has in place a Storm Water Department website: <http://www.cityofanderson.com/stormwater/>. There were one thousand one hundred seventy-seven (1,177) hits in 2007, excluding the month of January, due to data loss resulting from a local server malfunction.

8. Have you done a baseline survey of community awareness of storm water? Have you done the follow-up survey? What was the number or percentage of citizens that have an awareness of storm water quality issues awareness?

A: A Storm Water Awareness Survey was conducted in November 2002. A follow-up survey form is posted on the website. No responses have been received on the follow-up survey via the web site. It is estimated that 90 to 95 percent of Anderson's citizens have awareness of storm water quality issues. The survey will be conducted again in July of 2008 via a Utility Bill Insert.

9. What materials were produced for the program? Number distributed?

A: The "Storm Water Survey" and the "Storm Water Public Participation Request" forms are available for review online. These forms will be distributed to the City's 35,000 utility customers in July of 2008.

10. How many news stories or articles covered your program?

A: A White River clean-up activity was published in the local newspaper one day and one week prior to the activity. Three hundred (300) flyers were also mailed to local citizens to encourage participation.

11. Were any economic incentives, such as rebates to homeowners for purchasing rain barrels or biodegradable products provided?

A: There were no economic incentives or rebates offered for rain barrel or biodegradable products.

12. List implemented BMPs and measurable goals

A: Implemented BMPs with measurable goals are listed in the 2006 report. No new BMPs were implemented in 2007.

9. (b) MCM # 2 - *Public Participation and Involvement – Allow opportunities for citizens within the MS4 area to participate in the storm water management program development and implementation.*

1. Provide the name of person, department, or organization responsible for overseeing public participation and involvement program. List partnerships and memorandum of understandings.

A: The City of Anderson Storm Water Department has the responsibility for overseeing its respective Public Participation and Involvement activities. The City of Anderson Storm Water Department has the responsibility for overseeing its respective Public Outreach and Education activities. The City of Anderson has executed a MOU with seven (7) MS4 entities located in Madison County that collectively administer Public Outreach and Education, in addition to one (1) non-MS4 entity, the Madison County Soil and Water Conservation District.

2. Did you partner with any watershed groups? What role did they play in MS4 public participation?

A: The City partners with the White River Watchers of Madison County and the Madison County Soil and Water Conservation District. The City storm water personnel participate in and help fund the activities of these groups. A White River clean-up activity was conducted in September 2007 that collected 4.33 tons of pollutants from the river. The report was forwarded to DNR Hoosier Riverwatch. The City also has a MOU with the Madison County Soil and Water Conservation District to implement Public Outreach and Education activities.

3. Did you apply for 319 Grant funding for an MS4 project? Did you receive the funding? What was the project?

A: The City of Anderson did not apply for a 319 Grant in 2007.

4. How many public meetings did you hold? List numbers attending.

A: Approximately twenty-six (26) public meetings were held by four separate storm water, watershed and hazardous waste groups. Attendance was not recorded.

5. Number or percentage of citizens that participated in storm water quality improvement projects.

A: Ninety-four (94) attended a river clean-up project that included two Boy Scout troops and Anderson University students.

6. Did you do any volunteer water quality monitoring? How many participated and what were the results?

A: Sixty-eight (68) Anderson University Biology students conducted water quality monitoring of macro-invertebrates at Edge Water Park in White River. The overall water quality from the test results was good to excellent.

7. Did you do storm drain marking? How many drains were marked? How many volunteers participated? List groups (Boy Stouts, Garden Clubs, Boys and Girls Club etc.)

A: The City has initiated a storm drain marking program. No markers have been placed in this reporting period. All new storm water construction projects require casting structures to be marked in the factory fabrication process.

8. Do you have a citizen watch group to identify polluters? How many reports were generated and what was the follow-up action.

A: The City does not have a citizen watch group, but maintains a contact phone number on the website and in the phone book encouraging citizens to report polluters. Twenty-two (22) pollution related calls were received and followed up by the Water Pollution Control Utility. Various actions were taken and resolve the problems.

9. Did you conduct any workshops? Who were they for and how many attended?

A: The City conducted two (2) workshops: one (1) on ESC and one (1) on MS4 Operator training. Twenty-two (22) attended, representing contractors, surveyors, engineers and city staff. Two (2) additional workshops on Pollution Prevention / Good Housekeeping and Erosion and Sediment Control were attended by seven (7) city employees. One (1) City storm water employee attended LTAP in February at Purdue University.

10. List the BMPs you implemented.

A: The implemented BMPs with measurable goals are listed in the 2006 report. No new BMPs were developed in 2007.

9. (c) MCM # 3 - *Illicit Discharge Detection and Elimination – Commitment to develop and implement a strategy to detect and eliminate illicit discharges to the MS4 conveyances.*

1. Provide the name of person or department responsible for implementation and enforcement of the illicit discharge detection and elimination ordinance.

A: The City of Anderson Storm Water Department in conjunction with the Water Pollution Control Utility has the responsibility for overseeing its respective IDDE program.

2. Do you have an Illicit Discharge Ordinance in place? Have you submitted the signed certification form? If you do not have the authority or ability to create or enforce ordinances, do you have an enforceable policy document or MOU with another entity in place?

A: The City has an IDDE section incorporated into the Storm Water Drainage Ordinance. The signed certification form has been signed and submitted.

3. Do you have an illicit discharge hotline? How many calls have you received? How many responses have you made?

A: The City posts a "Storm Water Contacts" phone number on the Storm Water website for reporting illicit discharges. Twenty-two (22) pollution related calls were received and followed up on by the Water Pollution Control Utility Maintenance Department. Various actions were taken to resolve problems.

4. How many incidents have you had? How many completed investigations have you done? How many enforcement actions have you taken?

A: Twenty-six (26) spill accidents have occurred. WPC personnel responded to all spills and fully documented the details of each occurrence. No enforcement actions were taken.

5. What percentage of outfalls and MS4 conveyances have you mapped? Are you using GIS mapping?

A: MS4 outfalls known to exist are mapped on the City GIS database. Each outfall can be queried for object identification and geographic location. The geographic coordinate system used to identify each location is NAD 1983 State Plane Indiana East. Approximately 1/3 of the outfalls have been field investigated, photographed and hyperlinked for direct viewing on the GIS.

6. What is the percentage or number of linear feet mapped to date? What is the number of MS4 outfalls screened for illicit discharge?

A: At this time the City has mapped 932,996 lineal feet of storm sewers in the City of Anderson. Dry weather MS4 outfalls have not been screened for illicit discharges.

7. What are the names and locations of all waters that receive discharges from those outfalls?

A: White River, Killbuck Creek, Little Killbuck Creek, Fall Creek Sugar Fork, Foster Branch and Prairie Creek are all waters within the City of Anderson that receive outfall discharges.

8. List the number and location of illicit discharges detected. Provide the number of illicit discharges eliminated.

A: One (1) was detected via dye testing of a single-family residence. An onsite and drainage network investigation (via internal sewer televising) was performed. The source was not identified.

9. Have you located problem areas via dry weather screening, determined the source, and made corrections? Number of incidents?

A: One (1) problem area was identified via dry weather screening. A CSO was flowing into Mill Creek in Chesterfield and reported the City of Chesterfield and IDEM for corrective action. Subsequent inspections indicated the problem was resolved.

10. Do you conduct field-testing? What method do you use?

A: Yes, of the White River. A Municipal Laboratory is utilized for testing.

11. Have you identified all active industrial facilities within the MS4 area that discharge into the MS4 conveyance? How many?

A: There are no significant industrial users that discharge process water directly into storm water conveyances. We have not identified all industrial users that have storm water conveyances that route to MS4 conveyances.

12. Do you work with the county Solid Waste District or Household Hazardous Waste District? List number and amount of materials collect, number of citizens participating.

A: The City works with the Madison County Recycling Center. The materials collected are listed below under item No. 13.

13. Are there recycling programs in your area? How many citizen drop-off centers are in your community? Are they publicized?

A: There are eleven (11) drop-off centers in our community, including one (1) Madison County Recycling Center. The 2007 HHW collections for MCRC included household

chemicals, such as herbicides, pesticides, flammable liquids, corrosives, etc. The following materials were collected from residents throughout Madison County: Total HHW – approximately 49,800 pounds; Batteries - 4,310 pounds; Oil - 1,950 gallons; Anti-Freeze - 325 gallons. Madison County Recycling Center recorded that 1,225 County residents participated in hazardous waste disposal activities during 2007, an increase from 1,050 residents in 2006. The MCRC has a website and publicizes information relative to recycling programs on the web in the local newspaper. The City of Anderson distributed 75 brochures and leaf bags in a city wide Fall Clean-up in November.

14. What education programs or training have you provided for public employees, contractors, builders, citizens about the hazards associated with illicit discharges and improper disposal of waste.

A: The city conducted two (2) workshops on MS4 software training for public employees and one (1) IDDE workshop was attended by a city employee.

9. (d) MCM # 4 *Construction Site Storm Water Run-off Control – Commitment to develop, implement, manage, and enforce an erosion and sediment control program for construction activities that disturb one or more acres of land within the MS4 area.*

1. Provide the name of person or department responsible for implementation and enforcement of the construction site storm water run-off control ordinance.

A: The City of Anderson Stormwater Department has the responsibility for overseeing implementation and enforcement of the construction site storm water run-off control ordinance.

2. Do you have a construction site storm water run-off ordinance in place? Have you submitted the signed certification form?

A: The City has a section on ESC incorporated into the Storm Water Drainage Ordinance. The certification form has been signed and submitted.

3. If you do not have the authority or ability to create or enforce ordinances, do you have an enforceable policy document or MOU with another entity in place?

A: The City has in place a MOU with the Madison County Soil and Water Conservation District to implement provisions of the ordinance.

4. Do you have an agreement with the local SWCD to review and approve plans? Does the local SWCD provide review and comments?

A: The MCSWCD provides reviews and approves SWPPP plans per MOU agreement.

5. How many plans have you reviewed this year? How many were approved?

A: There were 14 plans reviewed and 14 approved in 2007.

6. What triggers a plan review?

A: All site consultants,/engineers/architects are aware (or made aware) that sites disturbing one (1) acre or more are required to comply with all provisions of IDEM Rule 5.

7. How many investigators do you use?

A: Two (2) investigators with the MCSWCD investigate sites for Rule 5 compliance. In addition, City Engineering staff personnel provide support services as needed.

8. How many construction site inspections were conducted?

A: Approximately 110.

9. How many violations were identified?

A: Approximately eleven (11) off-site sedimentation violations.

10. How many citizen complaints about construction sites were received?

A: None

11. Number and type of enforcement actions taken against construction site operators?

A: Letters sent asking for corrections; follow-up inspections conducted.

12. Did the IDEM Storm Water field specialist assist you on any sites? How many?

A: Yes, approximately five (5).

13. How many training sessions did you provide to employees, contractors, builders, citizens on construction site run-off control?

A: The City conducted/attended four (4) workshops. The MCSWCD held their annual meeting for the purpose of making a full report of activities for the past year. A Power Point presentation was given by Janelle Parke, E.D., on Rule 5 compliance. City pollution prevention brochures and concrete wash-out videos were made available to the public.

14. What type of training did you provide? How many attended the events?

A: One (1) on ESC and one (1) on MS4 Operator training. Twenty-two (22) attended, representing contractors, surveyors, engineers and city staff. Two (2) other workshops by on PP/GH and ESC were attended by seven (7) city employees.

15. List the number, type, and location of structural BMPs you have installed? How many were inspected?

A: Installed: Two (2) detention basins - Flagship Phase I Parking - 73rd and Quality Circle; One (1) underground storage system, Anderson University, Graceland and Univ. Ave; One (1) proposed underground storage system, Taco Bell, 10th and Scatterfield Road.

Inspected: Three (3)

16. List Structural BMPs maintained or improved.

A: The implemented BMPs with measurable goals are listed in the 2006 report. No new BMPs were developed in 2007.

9. (e) MCM # 5 *Post Construction Storm Water Run-off Control – Commitment to develop, implement, manage, and enforce a program to address discharges of post-construction storm water run-off from new development an redevelopment areas that disturb one acre or more of land, or disturbances of less than one acre of land that are part of a larger common plan of development or sale if the larger common plan will ultimately disturb one or more acres of land within the MS4 area.*

1. Do you have an ordinance in place for Post-Construction BMPs and is it being implemented? Have you submitted the signed certification form?

A: The City has a section on Post Construction BMPs incorporated into the Storm Water Drainage Ordinance. The certification form has been signed and submitted.

2. Provide the name of person or department responsible for plan review, inspection, and enforcement of post construction BMPs.

A: The City of Anderson Engineering Department has responsibility for the plan review, inspection and enforcement of all Post- Construction BMPs.

3. What training was provided to the responsible person(s)?

A: The primary reviewer is an Indiana registered professional civil engineer.

4. List the number and location of retail gasoline outlets or municipal, state, federal, or institutional refueling areas with installed BMPs. The number without BMPs?

There are four (4) retail gasoline outlets with Ground Water Remediation systems installed:

| | | |
|--------------------------|---------------------------------|-----------------|
| Ricker's Oil | 920 West 38th | Anderson |
| Speedway | 2501 Nichol Ave | Anderson |
| Speedway | 2328 Broadway | Anderson |
| Village Food Mart | 2505 Nichol Ave | Anderson |

Existing refueling areas with underground structural grit separators, particle separators, & related similar devices has not been documented.

5. List estimated acreage or square footage of open space and impervious surface preserved and mapped. (If this was provided in Part B or in a previous Annual Report only list the changes.)

A: A re-calculation of open space and impervious area has not occurred since the Part "B" submittal.

6. List your measurable goals with specific reduction percentages and timetables for Post-Construction Storm Water Run-off Control.

A: Protect and preserve as much natural or vegetated area on the site as possible, minimizing impervious surfaces, and directing runoff to vegetated areas rather than to adjoining streets, storm sewers and ditches; Flow attenuation of storm water by use of open vegetated swales and natural depressions; Storm water wet detention facilities (including percolation facilities); Other storm water management practices, including but not limited to, underground storage facilities; A combination of successive practices may be used to achieve applicable minimum control requirements.

9. (f) ***MCM # 6 Storm water quality management plan municipal operations pollution prevention and good housekeeping – Commitment to develop and implement a program to prevent or reduce pollutant run-off from municipal operations and the development of a maintenance plan to reduce or eliminate discharge of pollutants in municipal areas.***

1. Do you have an ordinance in place for municipal operations pollution prevention and good housekeeping and is it being implemented? Have you submitted the signed certification form?

A: The City has in place a Storm Water Drainage and Control Ordinance in place. The certification form has been signed and submitted.

2. Provide the name of person or department responsible for plan review, inspection, and enforcement of post construction BMPs.

A: The City of Anderson Engineering Department and the Water Pollution Control Utility have responsibility for the plan review, inspection and enforcement of post construction BMPs.

3. Do you have written documentation of maintenance activities, maintenance schedules and long-term inspection procedures for BMPs?

A: These activities are documented on the web based Operation MS4 program, implemented in October 2007, to manage control measure responses.

4. What maintenance activities are included in your plan?

A: Street sweeping, sewer cleaning, catch basin/inlet cleaning, hazard materials storage, spill response procedures, vehicle washing, shop cleaning, litter pick-up, absorbent material use and automotive fluid recycling.

5. List the number and location of facilities that have containment for accidental release.

A: At this time the City is in the process of conducting an inventory of the municipal facilities that do and do have containment for accidental releases.

6. Provide an estimate of the acreage or sq. footage where pesticides, herbicides and fertilizers are applied by you.

A: The City Parks Department applied fertilizer to approximately 110 acres, including 100 acres of the City operated Golf Course.

7. Provide an estimate of the acreage or sq. footage of unvegetated swales and ditches that have an adequately sized vegetated filter strip.

A: The City does not document this information.

8. Provide the estimated linear feet or percentage of municipal separate storm sewers cleaned or repaired.

A: Seven thousand five hundred forty-five (7,545) lineal feet of storm sewers were cleaned.

9. Provide the estimated linear feet or percentage of roadside shoulder and ditches stabilized.

A: The City does not document this information.

10. List the number of storm water outfall areas remediated from scouring conditions.

A: There were no storm water outfalls remedied from scouring conditions.

11. Number of de-icing salt and sand storage areas in the MS4 area and have they been improved to minimize storm water exposure?

A: None

12. Provide an estimated amount, in tons, of salt and sand used for snow and ice control.

A: There were 2,484 tons of salt and 160 tons of sand used.

13. Provide estimate of amount of material collected from catch basin, trash rack, or other structural BMP cleaning.

A: There were five hundred fifteen (515) structural catch basin/inlets cleaned.

14. Provide an estimate of the amount of material collected from street sweeping.

A: Street sweepers collected approximately seven hundred eleven (711) loads of debris. Loads are estimated at approximately 1 c.y.

15. Provide the number or percentage of canine parks sited at least 150 feet away from surface water body.

A: The City of Anderson has one designated canine park, established and maintained by the City Park Department.

9. Other Controls

A: The City is working to implement a new online Rule 13 management program known as Operation MS4. This program places emphasis on utilizing technology to streamline the management and reporting process

10. List Receiving waters and corresponding outfalls not submitted in the original NOI letter

A: There have been no additional receiving waters or corresponding outfalls submitted since the original NOI letter.

11. Provide any data regarding the following programmatic indicators since the previous annual report.

A: See previous MCM sections.

Guidance on Miscellaneous Information – Part D

12. On-going Water Quality Characterization Activities

A: WPC conducts weekly testing of White River for NH₃, E. coli and priority metals. Test results are documented and filed.

13. Discuss any problems encountered during this reporting period

A: None

14. Identify any new funding sources for implementing the permit (fees, grants, cost share etc.)

A: No new funding sources were implemented for this permit.

15. Identify any non-routine (i.e. do not include routine maintenance or cleaning) budgetary transactions related to your permit. List all storm water improvement projects started during the this reporting period.

A: There were no non-routine budgetary transactions related to our permit.

A sewer separation project is currently under construction in Tara Heights Addition that will connect approximately 47 homes to a new sanitary sewer. In addition, approximately 5,400 feet of 12-inch diameter storm sewer and 3,200 feet of new 6-inch diameter water main will be constructed under that same project. The cost of this project was \$960,000.

The Forest Drive Storm Sewer Project is currently under construction and consists of approximately 1,400 feet of 12-inch diameter storm sewer and appurtenances. The sewer is intended to alleviate flooding in the area. The cost of this project was \$75,000

Three other small sewer projects were constructed in 2007 removing 12 additional homes from septic systems and subsequently connecting them to the public sanitary sewer system.

16. Provide a summary of complaints received and the follow-up actions taken in reference to storm water quality issues.

A: Twenty-two complaints were received and follow-up action was taken. The detailed records are on file.

17. Implementation status – (a), (b), and (c)

A:

(a) Public Outreach and Education is being implemented via the web, City festivals, City wide clean-ups, press releases, public service announcements, workshops and printed material distribution of storm water pollution prevention materials. The City has a phone line for reporting storm water problems. Online survey and participation forms are available to the public online. A hard copy survey will be mailed out to 35,000 utility customers in July 2008.

(b) Public Participation and Involvement provides opportunities for citizens to participate in local storm water pollution prevention strategies via river clean-up events, meetings and festivals. A web-based storm water management program was initiated in October of 2007 that enable general public inquiry about storm water issues. The website has been maintained, with additional links added and information updated as needed. Over 6,000 hits were recorded on this website since 2005.

(c) The City of Anderson has in place a Stormwater Drainage Ordinance establishing standards for reducing non-point source pollutant loads to Waters of the State located within the jurisdiction of the City of Anderson to the maximum extent practicable in order to protect public health and safety and enhance water quality. The ordinance includes a "Prohibited Discharges and Illicit Connection Elimination" section to address specific pollutant contributions, including reporting, disconnection and penalty provisions for violators.

Certification and Signature – Part E

Name of the individual completing the report:

Michael Spyers, P.E.

Signature

Date

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