



Engineering Department
Alan Pugh, Director

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April 5, 2013

Jamal Solaimanian, P.E., Ph.D.

Water Division General Permit Section Supervisor,
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Re: Small MS4 General Permit Annual Report – ARR040019

Dear Mr. Solaimanian:

Enclosed is the City of Springdale's NPDES Phase II Small MS4 Annual Report for the period January 1, 2012 thru December 31, 2012. We are pleased to report that the City of Springdale is in compliance with the permit conditions as per the 2010 -2014 MS4 permit period. The Stormwater Management Plan has been reviewed and revisions are planned for 2013 to recognize the recent city annexations, 2010 Census urbanized area and revising the governed direction that may effect stormwater issues such as water quality, volumetric runoff issues.

If you have any questions please give me a call.

Sincerely,

Alan Pugh
Engineering Director

cc: Mayor Doug Sprouse

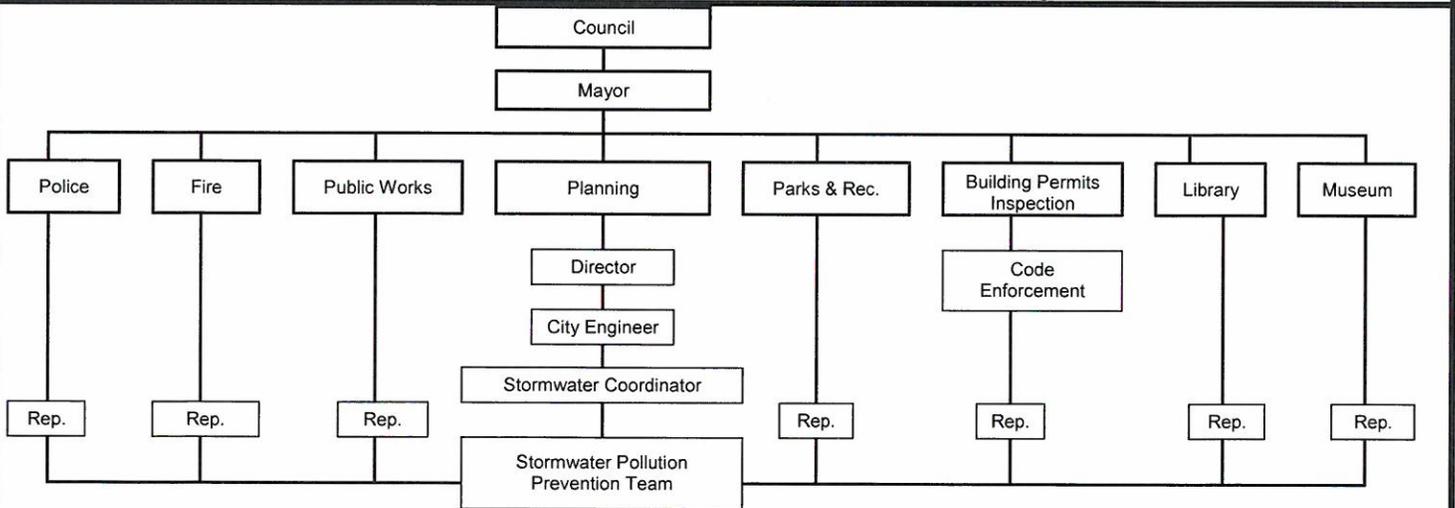
Instructions for completing this form:

- ARR040000 requires that this form be used when submitting annual reports. You may request approval to use your own reporting format.
- Annual Reports are due annually on or before June 1st.
- Complete the form and sign and date the certification statement below.
- If more space is needed than is provided, identify within the provided space that Attachment A, B, C, etc. has been attached.
- If an item of the form is not applicable for your program (such as street sweeping), fill in N/A in the space provided.
- Don't include attachments such as brochures, newspaper clips, sign-in sheets, etc. related to your program with this form. You only need to summarize these within this report. These records must be filed and will be needed during program audits.
- Please attach results of monitoring required for TMDL or impaired streams separately from this form.
- When complete, submit this Annual Report form to the following address:

ADEQ
 Water Division
 General Permits Section
 5301 Northshore Drive
 North Little Rock, AR 72118
 Water-permit-application@adeq.state.ar.us

Small MS4 Annual Report for Year: 2012		
ADEQ Permit Tracking Number: ARR040019, AFIN 88-00846		
Name of MS4: The City of Springdale		
Primary Contact: Patsy Christie	Title: Director of Planning & Community Development	
Mailing Address: 201 Spring Street		
City: Springdale	Zip Code: 72764	County: Washington
Telephone Number: 479-750-8550	Email Address: pchristie@springdalear.gov	

Include or attach a Table of Organization. Indicate who (name and contact information) is responsible for overall management and implementation of your program, and if different, each minimum control measure of your program. Identify how development and implementation across multiple positions, agencies and departments occur. Also, identify any Memorandum of Understandings (MOUs) or other such agreements that exist.



Patsy Christie, the Planning Department Director has ultimate responsibility for developing and administering the stormwater program. Development and implementation across multiple departments is handled through the Mayor and Department Directors staff meetings. Approved stormwater plans are carried out by selected department representatives. The Stormwater Coordinator is a member of the Planning Department. The position performs construction pre-cons, site inspections, IDDE searches, investigations, determines elimination sequence and adds all info to data base. The Stormwater Pollution Prevention Team activities are coordinated by the Stormwater Coordinator. The Pollution Prevention Team was organized in 9-09 and made up of representatives of all departments as shown above. The Team completed the 3rd year of the development stage with a strong need to become more knowledgeable of stormwater issues of their department as well as awareness of overall knowledge of stormwater requirements throughout the City. The potential result would be the department stormwater representative being ultimately responsible to advance the knowledge of the department with crew specific training and work site pollution prevention measures as needed. Having stormwater certified representatives in significant departments has been considered to perform educational duties on a frequent basis to help overcome the less effective annual training needs held for the whole department in a group. Some departments have made noticeable gains but lacks documented files of department stormwater efforts. Springdale and 14 two county MS4s has a contract with the University of Arkansas Extension Service and a MOU with the NWA Regional Planning



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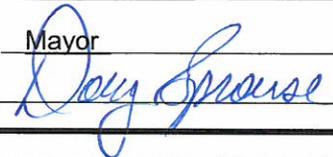
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Commission to provide Public Outreach and Public Involvement measurable goals in a mass media form to schools, businesses, organizations and developing and handling large stormwater conventions and gatherings. Additional Public Outreach and Public Involvement needs of the City are recognized and is planned to be part of the City Library and Museum. Some of the public educational hurdles for the City are large numbers of Hispanic, Marshallese and other lower income residences that may not participate in educational methods as described above. This fallacy may be overcome by working towards a boarder base City employee stormwater education level knowing many of these employees live in the neighborhoods and associate with neighbors and POAs.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possibility of fine and imprisonment for knowing violations.

Print Name: Doug Sprouse

Print Title: Mayor

Signature: 

Date: 4-5-13



A R K A N S A S
Department of Environmental Quality

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PUBLIC EDUCATION & OUTREACH Estimate Your Permit Area's Total Population: 68088 (2010 Census)

BMP (mechanism) & Responsible Party	Measurable Goal	Theme or Message	Target Audience	% of Target Audience Reached & Total # of people reached	Summary of Results	Effective (Yes or No)
Develop and distribute educational materials NWA Regional Stormwater Education Program	Provide resource materials to help residents understand and implement stormwater management and pollution prevention BMPs	Individual decisions and actions can combine to improve and protect regional water resources	Urbanized area residents	2.3% of target audience Materials distributed to 623 residents	Continued distributing electronic teacher resource newsletter and lakeside living newsletter along with other printed materials, videos and an online course	Yes
Develop and distribute mass media messages NWA Regional Stormwater Education Program	Promote stormwater management and pollution prevention BMPs through newspaper, radio, television and water bills	Home landscape BMPs, proper cooking oil disposal and pet waste pick up prevent stormwater pollution through storm drain inlets while rain barrels and rain gardens capture runoff for better infiltration	Urbanized area residents	100% of target audience 22,199+ circulation/ audience	Radio interviews on the Upstream Art storm drain mural program were featured on the <i>Ozarks at Large</i> radio program on KUAF, KNWA and KFSM TV news and several newspapers and online blogs	Yes
Displays and exhibits NWA Regional Stormwater Education Program	Develop and establish unmanned/staffed booth educational displays	Home landscape and pet waste BMPs, rain barrels and storm drain inlet awareness	Urbanized area residents	<1% of target audience Visited with 11 people at staffed exhibits	Displays were developed and used in conjunction with Artosphere Eco Trail Mix, the Washington County Fair, the ADEW watershed conference and the UA Morrill Act celebration	Yes
Conduct hands-on youth stormwater quality education programs NWA Regional Stormwater Ed. Program	Engage students in experiential learning, using stormwater and pollution prevention concepts to meet state Science frameworks	As cities develop, stormwater can carry pollutants to nearby water resources - everyone has a role in stormwater management and pollution prevention	Urbanized area school-age youth	3% of target audience 658 youth participants	A total of 9 school, 4-H and summer camp programs were conducted - student and teacher evaluations indicated an effective program delivery and knowledge gained	Yes
Conduct stormwater education programs for adult audiences NWA Regional Stormwater Education Program	Teach adult residents about urban stormwater dynamics and how to implement runoff management and pollution prevention BMPs	As cities develop, stormwater can carry pollutants to nearby water resources - urban residents' decisions and actions are key for effective stormwater management and pollution prevention	Municipal, civic, construction, gardening and environmental adult audiences	<1% of target audience 190 adult participants	16 Programs were conducted including presentations at meetings, hands-on workshops and regional conferences	Yes
Springdale Public Works "adopt a street" program	To keep the street and right-of-way free of trash and debris	Adopt a Street	Urbanized area residents	unknown	During 2012 only 1 street, Randle Wobbe Lane has an adoption group for the year. The street has been kept free of trash and debris.	Yes

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PUBLIC INVOLVEMENT/PARTICIPATION

BMP (Activity) & Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate of People Participated	Summary of Results	Effective (Yes or No)
Conduct public participation/involvement events	Engage NWA urban residents in picking up litter	Using community volunteers not only directly enhances water quality but also watershed stewardship	Urbanized area residents and businesses	16 Residents picked up trash	Litter was removed from Spring Creek	Yes
NWA Regional Stormwater Education Program						
Train and Utilize Volunteer Educators	"Train-the-trainer" processes will be used to engage public volunteers and educators in teaching stormwater and pollution prevention	Training community volunteers on stormwater dynamics and pollution prevention BMPs expands education and outreach impacts as they, in turn, help educate other urbanized area residents	Urbanized area residents and civic and environmental organizations	7 Residents participated in the 2012 Washington County Master Gardener Training	Springdale residents were educated on stormwater pollution prevention BMPs and will now help educate others	Yes
NWA Regional Stormwater Education Program						
Conduct pre-con sessions with new development contractors	Review SWPPP for individual construction site	Show DVD "Ground Control" SWPP for Construction Sites. Show Power Point slides showing "good" & "bad" BMPs at previous construction sites. Give and grade 10 point quiz. Discuss pertinent requirements for individual sites, finalize grading permits and site personnel certifications, inspect installed site SWPPP control measures	General Contractors, engineers and contractor subs. Construction pre-cons are for sites of 1 acre or more and develop soil disturbance in areas with sensitive runoff potential.	51 Participants during 2012	Springdale construction site contractors were educated on stormwater pollution prevention BMPs designed for the site and will now help educate others	Yes
City of Springdale Planning Department						

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ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE)

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Cite Local Code(s) Being Used (if available, web link for code(s))	Summary of Results or Activities	Effective (Yes or No)
Ordinance or Other Regulatory Mechanism Planning Department	Ordinance Chapter 107 SEC. 107.7 and SWMP IDDE1 - IDDE6	Ordinance in place. SWMP IDDE1-6 has been completed.	Yes. Springdalear.gov. A stormwater website has been created within the City website. springdalear.gov/planning/index.asp	Parts of program have been in place for years. SWMP developed goals make the program more thorough and effective.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates		Effective (Yes or No)
Storm Sewer System Map Planning Department	SWMP IDDE3	No. Estimated at 98% complete.	An aerial map was created during the previous permit period. Some outfall locations, curb inlets, piping, drainage and retention/detention basin locations have been added to the map and correlated to a spread sheet for dry weather screenings. Map est. at 90% complete. (recent annexation requirements) (SWMP IDDE5) Activities in 2012-2013 will combine adding outfall data, IDD data base info, GPS additional inlets, open drainage, and piping.		Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates		Effective (Yes or No)
IDDE Plan Planning Department	SWMP IDDE3	Yes	Ordinance Chapter 107 has been revised in many areas and SEC. 107.7 (IDDE) has been added to this ordinance awaiting City final approval.		Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Outfalls Screened	# of Dry-Weather Flows Identified	# Of Illicit Discharges: Identified* Eliminated
Dry-Weather Screening of Outfalls Total # of Outfalls <u>28</u> Est. >60-80 Planning Department	SWMP IDDE3	No	28 outfalls screened and all sites have GPS and formal administrative log system created.	all	0 0 6 other IDDEs identified not part of dry weather screening 6 other IDDEs eliminated not part of dry weather screening
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates		Effective (Yes or No)
Identification of allowable non-stormwater discharges Planning Department	N/A	N/A	Allowable discharges have been identified in Ordinance Chapter 107 SEC. 107.7. See Attachment 1		Yes

*Include an attachment which provides schedules for elimination of illicit connections that have been identified but have yet to be eliminated

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CONSTRUCTION SITE RUNOFF CONTROL

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Cite Local Code(s) Being Used (if available, web link for code(s))		Summary of Results or Activities	Effective (Yes or No)
			Received	Complaints Followed-Up On		
Ordinance or Other Regulatory Mechanism Planning Department	Established in 1st permit.	Yes	The Stormwater Ordinance Chapter 107, Drainage Criteria Manual, Landscaping Ordinance Chapter 56.		The Stormwater Ordinance Chapter 107 was established in 2004. Ordinance has currently been reviewed and updated revisions including new requirements are awaiting Council approval.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Standards Being Used		Summary of Results or Activities	Effective (Yes or No)
Sediment and Erosion Control Requirements Planning Department	Established in 1st permit.	Yes	The Stormwater Ordinance Chapter 107. Additionally the pre-construction meeting with the developer and contractors has been upgraded to reflect on all sediment and erosion control areas required for the project. A SWPPP for construction sites video is show at pre-cons. as an educational reminder of the regulations.		Requirements are established in the Stormwater Ordinance Chapter 107. Ordinance has been reviewed and updated revisions including new requirements are awaiting Council approval.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Complaints		Summary of Results or Activities	Effective (Yes or No)
Complaint Process Planning Department	Established in 1st permit.	Yes	0	0	Complaints concerning construction projects are typically rare. The complaints are most generally mud tracking and dust problems during arid summer months. Additionally construction is 10-12 projects active at one time making frequent monitoring feasible... Site drive by reviews are 2-3/week and before/after rain events. Issues are less frequent with apparent more knowledgeable construction crews.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Applicable Sites Requiring Plans	# of Plans Reviewed	Summary of Results or Activities	Effective (Yes or No)
Site Plan Review Procedures Planning Department	Established in 1st permit.	Yes	19 Large scale site plans requiring approved SWPPPs. 168 residential site permits issued	19 site plans reviewed and issued grading permits. 168 residential site permits reviewed and issued small site grading permits.	This is a continuing system for sites 1 acre or more from the previous permit period. Additionally 168 residential sites of <1 acre required Grading Permits and these construction sites were monitored for violations by the Building Department. Additional residential site reviews are made by the Planning Department for active subdivisions concerning residential drainage issues. These issues happen during housing construction, landscaping, installed fencing and post construction.	Yes
BMP &	Measurable Goal	Completed	Site Inspections Performed		Summary of Results or Activities	Effective

SMALL MS4 ANNUAL REPORT FORM

Responsible Party	Measurable Goal	Completed (Yes or No)	Violations		Summary of Results or Activities	Effective (Yes or No)
			# of Violation Letters	# of Enforcement Actions		
Site Inspection Procedures	SWMP CSW4 - Conduct site inspections on an on going basis	Yes	25	115	Site inspections are documented once every 4 weeks or after each rain => 0.5". Typically years with normal annual rainfall, site inspections would average 4-6 inspections /month	Yes
Planning Department						
BMP & Responsible Party						
Enforcement Procedures	See SWMP Measurable Goals Attachment 2	Yes	1	1	One Large Scale Development site > 1 acre was sited for violation of the LSD requirements, flood plain requirements and stormwater requirements. Legal activities continued through 2012. Enforcement procedures are presently on going. At most sites, Violation letters or tickets typically are not necessary. Ignorance is a problem but a verbal warning instruction usually gets results. Mud tracking is often an issue.	Yes

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POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Cite Local Code(s) Being Used (if available, web link for code(s))		Summary of Results or Activities	Effective (Yes or No)
			Structural and/or Non-Structural Standards Being Used	Summary of Results or Activities		
Ordinance or Other Regulatory Mechanism	SWMP DS-1 - Review Codes and adopt revisions for more complete coverage. See SWMP Measurable Goals Attachment 3	Yes	City Codes Stormwater Ordinance Chapter 107, Chapter 56 - Landscape and Buffers, Chapter 106 - Drainage Criteria Manual and Chapter 112 Subdivisions		Typically LSDs are buildings, parking lot and landscaping and all post construction needs are in place. Most residential sites are completed with landscaping and sod frontage and hydro-mulching of back yards. There are other regulations that require special requirements such as utility maintenance activities, excess dirt from one construction site added to another etc.	Yes
BMP & Responsible Party Post-Construction Requirements	Measurable Goal	Completed (Yes or No)	Structural and/or Non-Structural Standards Being Used	Summary of Results or Activities/Compliance rates with MS4 requirements	Summary of Results or Activities	Effective (Yes or No)
Planning Department for LSDs and subdivisions, Building Department for residential sites	Established in 1st permit.	Yes	City Codes Stormwater Ordinance Chapter 107, Chapter 106 - Drainage Criteria Manual, Chapter 56 landscaping and Buffers and Chapter 112 Subdivisions	City Codes Stormwater Ordinance Chapter 107, Chapter 107, Chapter 56 landscaping and Buffers and Chapter 112 Subdivisions require a final inspection prior to City approval of the development final plat. All stormwater inspection deficiencies are completed prior to this approval.	City codes require a final inspection prior to City approval of the development final plat. Most all inspection deficiencies are completed prior to approval that involved safety, drainage and site stabilization.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Applicable Sites Requiring Post-Const. BMPs	# of Plans Reviewed	Summary of Results or Activities	Effective (Yes or No)
Site Plan Review Procedures	Established in 1st permit.	Yes	25 sites in 2012 by Planning Department, 168 sites in 2012 by Building Department	25 sites in 2012 by Planning Department, 168 sites in 2012 by Building Department		Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Site Inspections Performed		Summary of Results or Activities	Effective (Yes or No)
Site Inspection Procedures	Established in 1st permit.	Yes	# Performed	Avg. Frequency	Site Inspection Procedures follow the plan that was reviewed and approved by the design engineer and Planning Dept. engineer. Variances to the plan during construction require City approval of the variance. Stormwater handling devices such as detention ponds require a post construction certification from the design engineer verifying construction accuracy to the approved plan.	Yes
			19 sites in 2012 by Planning Department, 168 sites in 2012 by Building Department	25 sites in 2012 by Planning Department, 88 sites in 2012 by Building Department. Final inspection at end of construction. C of O not granted until site meets approval.		
BMP & Responsible Party	Measurable Goal	Completed	Violations		Summary of Results or Activities	Effective
Planning Department for LSDs and subdivisions, Building Department for residential sites	Established in 1st permit.	Yes				

SMALL MS4 ANNUAL REPORT FORM

		(Yes or No)	# of Violation Letters	# of Enforcement Actions		(Yes or No)
Enforcement Procedures	Established Ordinances prior to NPDES Ph II	Yes	Ordinance requirement letters pass back and forth between the consultant engineer and City reviewer during the preliminary plat stage on all sites until all codes are met and site construction is approved.	Enforcement action is generally carried out in the preliminary plat review on all sites to ensure all codes are met prior to being approved for construction. Daily or as needed site inspections and final inspections ensure sites are built per plan.	Typically enforcement procedures are carried out within an Ordinance by withholding a Certificate of Occupancy or the Planning Director's final signature on final plat approval. This would include safety items, site drainage and final stabilization.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Sites Requiring Plans/Agreements	# of Plans Developed/Agreements in Place	Summary of Results or Activities	Effective (Yes or No)
Long-Term O&M Plans/Agreements Planning Department	Established Ordinances prior to NPDES Ph II	Yes	All LSDs and subdivisions => 1 acre have agreements that are governed by City codes.	All LSDs and subdivisions => 1 acre have agreements that are governed by City codes.	Subdivision developers are responsible for stormwater drainage systems for 2 yrs. and post a maintenance bond prior to being dedicated to the City for long term O&M. LSDs are responsible for storm drainage systems for 1 yr. and post a maintenance bond to the City.	Yes

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POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Topic(s)	Targeted Audience	# of Employees Attended	Summary of Activity	Effective (Yes or No)
Employee Training Program NW A Regional Stormwater Education Program	MS4 employees are educated about ways to minimize the water quality impact of municipal activities	Yes	Stormwater regulations, municipal pollution prevention/good housekeeping BMPs, and illicit discharge	Public Works and Parks & Rec. department staff	52	Used audience response remotes in conjunction with MS4 Stormwater Jeopardy	Yes
List of Municipal Facilities Subject to Program							
Presently Public Works and Parks and Recreation. In year 2 Police Motor Pool facilities and 6 fire Stations will be evaluated for effective needs and methods.				Yes - for Public Works and Parks and Recreation		2	
Summarize Maintenance Activities and Schedules				Summarize Activities Performed			
MS4 Maintenance	Public Works - Maintenance of vehicles and road machinery is maintained in the maintenance shop or on impervious parking lot daily or as required during a 5 working days/week. Repair is typically preventive maintenance or parts replacement. Parks and Recs. maintain vehicles and mowing equipment within the Parks storage and maintenance barn. Summer months are typically preventive maintenance while winter months is rebuild repair.			Both facilities perform oil changes, lubrication and minor repair as needed. Major machinery catastrophic failure would typically be contracted and send to the contract facility.			
Disposal of Wastes	Procedures Developed (Yes or No) Yes		Approximately 2600 tons was collected in 2012 and hauled to Waste Management Land fill in Tonitown. Bulk waste products are primarily from citizens and bulk waste is picked up at the residence or brought to the facility that is not part of their homeowner contract with Waste Management. Storage is inside an enclosed trailer. Facility waste is collected in a covered receptacle and picked up by Waste Management	Document Amounts of Wastes Properly Disposed			
Road Salt	Covered (Yes or No) Yes		35 tons during 2012. This about 45 tons less than 2011, mainly because of a mild winter and much less icy conditions.	Summarize Measures Taken to Minimize Usage Salt is only used for icing conditions whereas snow is plowed to the street sides and compacted snow is sprinkled with chipped gravel. Street sweeping picks up the gravel after the snow event has concluded and melting completed and hauled to Waste Management dump.			
Pesticide & Herbicide Usage	Procedures Developed (Yes or No) Yes		Public Works - 1 gallon of concentrate in 2012 Parks & Rec. - 100 gallons of weed killer in 2012	Summarize Measures Taken to Minimize Usage Only used in flower beds for weeds and bugs. All other areas mowed with motorized string line and pesticides and herbicides are rarely used in other areas. Pump sprayers are used for the application. Primary function of spray is under chain link park fences to prevent grass from over growing in the fence line.			
Fertilizer Usage	Procedures Developed (Yes or No) Yes		Public Works 300 lbs. in 2012 Parks & Recs. - 3-4 tons annually Arvest Ball Park - 600-700 lbs. annually	Summarize Measures Taken to Minimize Usage Public Works only usage of is for flower beds around City Buildings, monuments and major intersections landscaping as necessary for normal growth.			
Street Sweeping	Procedures Developed (Yes or No) Yes		The sweeper truck is unloaded at the Facility yard to a dump truck and hauled to the Parsons Landfill. Approximately 625 tons were swept from the streets in 2012.	Document Amount of Material Collected and Properly Disposed			



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Flood Management Projects	Summarize any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality
LID Projects	<p>N/A for Municipal Operations. Flood Plain is managed within the Planning Department. City engineers assisted Royce Smith, a farmer within the City limits, to receive a NRCS grant and City grant, apply for COE 404 and ADEQ STAA permits, and over see the installation of 438 feet of Spring Creek bank recovery and stabilization. IRWP provided funds and assistance for the installation of trees for the disturbed area beyond the stream bank.</p> <p>Public Works installed and maintains a rain garden during the 1st quarter of 2011 in the lawn in front of the facility office. The rain garden was positioned to collect approximately 1/2 of the drainage from the multi-acre site parking area for the road machinery. The garden is equipped with an under drain and over flow to drain into the site's large lawn. Much of the parking lot's potentially contaminated runoff is filtered or retained prior to reaching the normal street drainage to Spring Creek. A rain garden was installed at the Springdale Airport during 2012 as part of the parking drainage during the LSD of a new hanger construction. Parks & Recs. Installed and maintains a new rain garden in Murphy Park near the Springdale Aquatic Center. It collects rainwater from the sidewalks and parking lot filtering and or retaining the water prior to discharge to the City street.</p>

SMALL MS4 ANNUAL REPORT FORM

PROPOSED CHANGES TO YOUR SWMP (IF ANY)

- Summarize any proposed changes to your SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements. If you fail to satisfy measurable goals for the reporting year, please explain why.
 - SWMP was revised and returned to ADEQ on 4-28-2010 with supplemental Ordinance copies and other documents after receiving the deficiency report received 2-2010.
 - SWMP was revised in 4th qtr 2010 and approved during 2011
 - SWMP revisions are planned for 2013 to recognize departmental changes for stormwater coordination, recent annexations, 2010 Census urbanized area and revising the governed direction that may effect stormwater issues such as water quality, volumetric runoff causing stream bank erosion, and LID issues.

VARIANCES GRANTED (IF ANY)

- Identify and summarize any variances granted under your storm water program.
 - No variance requested - no variance granted.

SMALL MS4 ANNUAL REPORT FORM

Attachment 1

SWMP IDDE Measureable Goals

IDDE1 - Investigate developing a "hot" line and document calls each year. Calls to the City departments are forwarded to the Planning Department for investigation, elimination administration and documentation. Training within the City Pollution Prevention Team to advance IDDE knowledge and observation techniques are in place with all departments. A Stormwater Management website within Springdalelear.gov website was completed in 2011 and updated in 2012. A "report an issue" page is setup to allow the public to e-mail issues such as illicit discharge detection as well as any other stormwater issues. Additional public education methods may be needed to alert the public to the internal site within the City of Springdale website. The City purchased the Jones Center TV Station and will utilize it as a Municipal tool to provide City info. During 2013 the potential for televising stormwater educational pod casts and other stormwater criteria will be researched for effectiveness for airing.

IDDE2 - Develop protocols for responding to complaints and maintaining a data base. The "Hotline dispatcher" is essentially more than one number that the public is familiar with such as the Major's Office, Police Dispatcher, Code Enforcement, Planning Office and Public Works. These offices would receive the call and would notify the Planning Office to assess the dynamics of spills, observations and other IDDE requirements who then notify departments with appropriate enforcement credentials or crews and equipment to fit the situation or notify the State for major issues. Additionally releases to streams and water bodies are often observed by Springdale Water Utilities and this department would be also searching for the discharge point to determine if the release is a sanitary sewer release. The Planning Office and SWU often work together for the IDD resolution.

IDDE3 - Conduct Dry Weather Screening - outfalls and streams. a formal screening program is in progress and established. This program was started in the 2nd qtr. of 2010. The formal screening includes GPS locations on outfalls to streams and tributaries and records the observed outfall structure type, dimensions and condition. Additionally the flow if any is recorded for color, smell, clarity and floatables on a check sheet for each location. The data base includes the GPS location and entered on the storm sewer map and check sheet for all outfalls. This information is also planned to be entered into a digital database showing both the outfall screening data for future years and any maintenance info performed due to the screening results. Dry weather screening of waterways is prioritized to City zones recognizing zones such as residential, commercial, manufacturing, junk yards and urban densities etc. A total of 42 screenings on the previously impaired Spring Creek and its tributaries have been observed. This project has high priority and is projected to be about 70% complete during 2011. Approximately 25 other outfalls were visited during 2012 however due to the runoff criteria these outfalls were not recognized as an illicit discharge risk.

IDDE4 - Spring Creek USGS sampling project. USGS has sampled and provided data since the contract began in 11-09. The contract measures for phosphorus and suspended sediment in 4 locations at high and low flows, across the City. Additionally Clear Creek and Brush Creek have been added to the contract during 2010. This will be a continuous project. USGS has added two continuous flow monitors during 2011 on Spring Creek at Sanders St. and Hwy 112 that now gives the stream flow criteria that can be associated to the contaminate loading for the flows in question. 2012 was an unusually dry year (31" vs. 48") and monitoring activities was of little significance.

IDDE5 - Implement protocols for finding, responding illicit discharges, and maintaining a data base. This goal ties into IDDE1 & 2 for a City wide Pollution Prevention Team to find and record illicit discharges found. The Stormwater Management website within springdalelear.gov website has methods for the public to reach appropriate City personnel. The Springdale Water Utilities personnel are usually involved with reported stream flow sitings recognizing the problem could be a sanitary sewer leak requiring immediate action.

IDDE6 - Create and Implement Non-stormwater Discharge Assessment program. The current IDDE non-stormwater discharge list as referenced in Chapter 107 Stormwater Ordinance has several types and circumstances where non-stormwater discharges are not prohibited. Examples are pools with chlorine, salt and other chemicals as well as other types of pollution from being out of service for months or years. Others areas are crawl spaces and foundation drains that are presumed uncontaminated if the water is not turbid. The assessment program would entail investigative sampling to determine if other suspended contaminants are present in prohibitive quantities. The plan would detail the criteria for exempting discharges in this category.

SMALL MS4 ANNUAL REPORT FORM

Attachment 2 SWMP Construction Site Stormwater Runoff Control Measurable Goals Permitted Grading sites >1 acre

Sites within Springdale Jurisdiction for this reporting period:

L11-03	LSD - City of Springdale Airport Hanger Construction - started 6-11 - to be completed in 2012
AHTD	LSD - Springdale Water Utilities Hwy 265 ph 1 water line relocation - started in 11-11 - to be completed in 2012
AHTD	LSD - Springdale Water Utilities Hwy 265 ph 2 water line relocation - started in 11-11 - completed 5-2012
L11-05	LSD - Arkansas Missouri Railroad depot building replacement and site renovation - started 8-11 - completed 8-2012
L11-08	LSD - JV Manufacturing new building expansion and yard renovation - started 9-11 - completed 5-2012
L10-15	LSD - Springdale School Dist. New school expansion site - started in 11-11 - to be completed in 2013
L11-09	LSD - Dollar General new store - started 12-11 - completed 5-2012
SWU-02	LSD - Springdale Water Utilities new water and sewer lines installation - started 12-11 - completed 8-2012
CIP 1004	LSD - City of Springdale Elm Springs Rd widening - started 11-11 - completed 9-2012
L11-12	LSD - Linen King building expansion - started in 11-11 - completed 5-2012
L11-10	LSD - Walgreens new building and store location - started 12-11 - completed 8-2012
L11-11	LSD - Kum & Go new gas station & deli location - started 12-11 - completed 5-2012
L10-10	LSD - Dan Runge Towing site yard expansion and improvements - started in 3-10- not completed - legal activity in progress
L1201	LSD - NW Medical Center Expansion - started 3-12 - completed 10-12
L12-02	LSD - New Hope Church - started 3-12 - completed 11-12
SWU-11-08	Springdale Water Utilities - Water line improvements - started 4-12 - completed 8-12
USI 1209011	Springdale Public Schools High school track & field improvements - started 3-12 - completed 9-12
CIP 0808	LSD Johnson Rd Improvements - started 10-12 - to be completed 2013
ST1102	LSD Hylton Rd Improvements - started 8-12 - to be completed 2013
L12-03	LSD Casey's General Store - started 12-12 - to be completed 2013
SWU 1107	Springdale Water Utilities - Water line improvements - started 8-12 - completed 9-12
L12-10	LSD Kum & Go gas & deli - started 8-12 - completed 12-12
L12-11	LSD Manning Clinic - started 9-1 - to be completed 2013
SWU 1107 Ph II	Springdale Water Utilities - Water line improvements - started 9-12 - completed 12-12
N12-05	LSD AEP SWEPSCO Osburn substation - started 9-12 - to be completed 2013

CSW1 - Review existing Municipal Codes and Development Codes for erosion and construction site runoff control effectiveness. The review of this measurable goal is ongoing through the permit period. The significance of the review is to tighten certain codes for outfall discharges at the design stage to improve or eliminate water scouring or other erosion problems in drainage ways after leaving the new development. Notes have been taken for post construction problems after new development and will be analyzed for Code revisions during the permit period.

CSW2 - Conduct Staff Training On an Ongoing Basis. Prior to 2009 training of other City departments was completed by bringing a complete department together and showing stormwater DVDs or Power Point presentations. These were recognized as being ineffective since employees of the department with different jobs and different stormwater knowledge requirements. Therefore the City Pollution Prevention Team was created to counter the problem. Representatives from each department would be responsible for the training element as well as other pollution issues of the department. Additionally it is proposed for selected department representatives would also be certified in a stormwater program to help advance the stormwater education of the person. Even though "Team" meetings have

SMALL MS4 ANNUAL REPORT FORM

some issues, the measurable goals of the arrangement appears to have economical merit for the expanding needs for stormwater pollution control however a City wide program is and will be slow to become fully functional.

CSW3 - Review the Land Drainage and Alteration (or LSD program) on an Ongoing Basis The essence of reviewing the effects of development is to recognize that some of the development and re-development in the past has attributed to more water being released to streams and drainage ways during storm events causing larger flow volumes and faster velocities and resulting in more stream bank erosion. Even though detention is utilized in many development projects, detention control structures are designed around 100 year storm events and not designed for retention for smaller storm events. This analysis will be carried out through the permit period to pinpoint future design changes and potential needs for retrofits of existing control structures while evaluating the watershed runoff criteria. Some pollution settle out in the detention pond could also be realized. However retrofits will be financial problem as well as administration of private sites.

CSW4 - Conduct Inspections on and Ongoing Basis This BMP provides for the private development construction site review monitoring frequency based on the site sensitivity such as location to streams, drainage to neighboring properties, size of the site and contractor construction methods and behavior. Drive-by/drive through inspections looks for flagrant violations and are performed one or more times per week and documented as necessary. More thorough inspections are documented once per month or after significant rain. There are no planned changes to this system until development re-development expands to the 2006 level that may require more inspectors to continue an effective program or reduce to a site selective program.

Attachment 3 SWMP Post-Construction Stormwater Management for New Development and Redevelopment

DS1 - Review City Codes and BMP Manual The BMP manual was completed by committee and read by a sub-committee for completeness. Notes and markups have been completed on selected Ordinances to clarify drainage requirements and move towards minimum standards.

DS2 - Post Construction Inspection and Compliance. Final inspections are required on all projects. Pertinent items on the final "punch list" must be completed or bonded for cost to complete the item. Sensitive items such as drainage and corresponding erosion control are not bondable and must be completed. Enforcement can be attained in more than one way but typically approval to get the certificate of occupancy is paramount. Existing landscaping ordinances and the BMP manual will be reviewed for wording detail and possibly amended to assure residential lawn sites have been properly stabilized until grass growth is complete.

DS3 - Stormwater Facilities Plan and Capital Improvement This BMP will address opportunities for implementing water quality improvement projects associated with retrofits to and expansion of the public stormwater drainage system. This includes continued development and re-development, street widening projects with curb and gutter and storm sewer installation or replacement, stormwater retention, provide improvements and to pre-existing and post development methods. The City has 55 detention - retention ponds in place based on runoff criteria that is required by the Drainage Criteria Manual. The City maintains or monitors them and will add more as development continues. These function as flood control measures and can function as stormwater pollution traps with calculated modifications to some of the control structures.

DS4 - Low Impact Development Include recommendations for LID at Technical Plat Review and Land Division approvals with cost comparisons between traditional development and LID. LID is currently being demonstrated in small projects by the U of A and Habitat for Humanity organizations in NWA although not Springdale. A relatively large impediment for NWA is the extremely tight clay and rock sub soil (.05" /hr. infiltration rate) making rain gardens and bio-swales more expensive and less effective than soils with higher to much higher infiltration rates. Developers will need to be made aware of both water quantity and water quality and require there consultants to develop cost effective methods of LID. There are however numerous LID functions that can be added to the design criteria that would benefit water quantity and quality even though the effectiveness may not be as good as with other soils.

The Public Works Department developed, installed and maintains a rain garden at that facility. The drainage to the garden is partial flow from the facility equipment and storage parking lot to filter contaminants from that outflow. It is located in the lawn where it can be viewed by the public. Other City rain gardens are Parks & Recs Aquatic Center and Springdale Hanger area. Through the LSD program in 2012, bio-swales were developed and installed at Casey's Gas/Deli, Kum & Go Gas/Deli and Dollar General parking lot drainage systems. These systems utilizes 3-4' of amended soil to provide some infiltration and water filtration before overflow from the swale begins.

SMALL MS4 ANNUAL REPORT FORM

Attachment 4

SWMP POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

- OM1 - Operations and Maintenance Program that Includes a Training Component - Training for City O&M units utilized audience response remotes in conjunction with MS4 Stormwater Jeopardy and relating to the work the unit does. This method was effective with enthusiastic participation and will be kept in place until better methods are achieved. Training is needed to fit the work any given crew does daily. It is being considered to have at least one individual in selected departments achieve a stormwater certification that meets their needs. This individual then would be required to handle specialized stormwater training to fit the needs of crews within their department who don't necessarily need a vast knowledge of the NPDES Phase II program. Departmental work loads makes this BMP difficult to achieve.
- OM2 - Training Program - Training for all City departments is in the development stage. As mentioned in OM1 developmental training is needed at all levels of a department that is geared towards the employee's daily duties involving stormwater or any anticipated pollution prevention or elimination aspect. This appears to be most effective if achieved by the individual department. Typically safety programs are handled similarly.
- OM3 - Pollution Prevention Plan Manuals for City Ops (PPP) - PPPs for Public Works and Parks and Recreation has been completed and a copy included with recent revised SWMP mailed to ADEQ during April 2010. The PPP is intended to be reviewed and used as part of the training component.
- OM4 - Stormwater Quality Technology Pilot Program - This will be an ongoing project during the permit period to determine the most significant areas of the City, inlet retrofit, and O & M costs. Consideration would be given primarily to floatables more so than pollution requiring lower micron level filtration. Oil and water separation is utilized for specialized runoff areas. A major arterial street has been engineered for widening and a storm sewer system was intended to be installed but was rejected because of O & M considerations. Other various water quality features are being considered.
- OM5 - Channel Assessment - Channel studies of Spring Creek are underway to couple walking trails and bank stabilization projects together. Costs are expected to be beyond the City's budget and efforts are underway to find government and private grants.
- OM6 - Street Sweeping for Stormwater Pollution Control - Consideration of street sweeping programs such as 2nd and 3rd shift sweeping developing longer hours and more frequent sweeping and a second and more effective sweeper is being considered for budgetary purposes. GPS tracking devices have been added to the sweeper truck and other vehicles during 2011. This aids mapping and data bases of street sweeping as well as other types of stormwater maintenance projects.

NWA Regional Urban Stormwater Education Program - *Springdale Annual Report 2012*

Theme or Message (Program Description)	Date	Target Audience	Total # of people reached
Program planning			
Participated in BWA Board Meeting and AEEA board meeting	Jan-Mar 2012	All MS4s	35
Collaborated with UA Horticulture and Landscape Architecture faculty, landscape designer and irrigation professional to plan next two Blue Pathways workshops, "Irrigation Technology and Permeable Pavement" and LID Maintenance tour	Jan-June 2012	All MS4s	10
Met with NWA Stormwater Compliance Group to assess need for construction regs. and BMP training and/or certification for contractor, designers, and inspectors	Jan-Sept 2012	All MS4s	21
Met with committee to plan 2012 UpStream Art project (storm drain inlet murals)	Jan-Dec 2012	All MS4s	15
Collaborated with Beaver Watershed Alliance's Awareness and Education Committee to plan regional water quality survey	Jan-Dec 2012	Greenland, Fayetteville, Elkins, Springdale, Lowell	14
Meet with the Illinois River Watershed to coordinate stormwater/water quality educational programming	Jan-June 2012	All MS4s	27
Coordinate with Audubon Arkansas and Washington County Environmental Affairs to plan Springdale Jr. High Field Day solid waste/stormwater runoff programs	Feb-Mar 2012	Springdale	7
Coordinate with Beaver Watershed Alliance, Ozarks Water Watch, Audubon Arkansas, IRWP and Washington County Environmental Affairs to plan "All Wet!" program at Shiloh Museum	Feb-Mar 2012	All MS4s	8
Met with Staff from Devil's Den State Park and the Botanical Garden of the Ozarks to plan rain barrel workshops	Feb-June 2012	All MS4s	5
NWA IECA planning meeting	2/2/12	All MS4s	8

Met with Beaver Water District, Audubon AR, and multiple other partners for planning of the annual Secchi Day event	Apr-June 2012	All MS4s	14
Helped organize Secchi Day on Beaver Lake	July-Sept 2012	All MS4s	15
Convened NWA Urban Stormwater Education Planning Committee to review FY 2012 impacts and accomplishments and plan FY 2013 program (emphasizing proper pet waste management)	9/11/12	All MS4s	14
Serving on Beaver Watershed Alliance's Awareness and Education Committee	Oct-Dec 2012	Fayetteville, Elkins, Greenland, Springdale, Lowell, Wash Co., Benton Co.	9
Serving on Beaver Lake Games planning committee coordinated by Association for Beaver Lake Environment	10/23/12	All MS4s	13
Met with District Girl Scout Director to plan future educational programs for the Girl Scouts	11/12/12	All MS4s	1
Serving on <i>LakeSmart</i> planning committee coordinated by Ozarks Water Watch	12/12/2012	Beaver Lake MS4s	11

Develop and distribute electronic and printed educational materials

Developed and sent monthly water quality curriculum newsletter for teachers in Benton and Washington Counties	Jan-Dec 2012	All MS4s	155
Developed and sent bi-monthly newsletter for LakeSmart in Benton and Washington Counties	Jan - July 2012	Beaver Lake MS4s	336
The City Wire blogsite article for UpStream Art	3/20/12	All MS4s	
Springdale Morning News coverage of UpStream Art	4/12/12	All MS4s	7,841
KNWA 40/29 coverage of UpStream Art	4/14/12	All MS4s	7,821
NWA Online coverage of UpStream Art	4/20/12	All MS4s	7,841
KUAF Ozarks at Large radio program segment discussing 2012 UpStream Art storm drain murals	4/23/12	All MS4s	904
KFSM Channel 5 news coverage of UpStream Art	5/8/12	All MS4s	8,554

Developed "Greening Your Life" online course which includes 9 modules that emphasize watersheds and stormwater pollution prevention BMPs	July-Sept 2012	All MS4s	
"Greening Your Life" online course (emphasizing watersheds, stormwater dynamics and pollution prevention BMPs) open at http://courses.uaex.edu	Oct-Dec 2012	All MS4s	
Series of water quality BMP video podcasts posted on www.uaex.edu website and Extension's YouTube channel	Oct-Dec 2012	Springdale	7
Distributed door-to-door flyers on the impact of trash in our waterways	November	Fayetteville, Springdale	69
Distributed Home*A*Syst and Streamside Assessment guides	December	Greenland, Fayetteville, Springdale	55
Created construction stormwater BMP training videos, quizzes and resource handouts for MS4s to use during pre-construction meetings	December	All MS4s	1
"Greening Your Life" Online Course article featured on Freshare.net	12/7/12	All MS4s	
Wrote an article on cooking oil disposal translated into Spanish and published in <i>La Prensa</i>	12/6/12	All MS4s	6,891
Beaver Watershed Alliance highlighted the UpStream Art project in electronic newsletter	12/21/12	All Beaver Lake MS4s	

Create display and staff educational booths

UpStream Art display featuring 8 storm drain murals in Bentonville, Fayetteville, Rogers and Springdale was staffed at Artosphere Trail Mix	5/6/12	All MS4s	11
Displayed UpStream Art photos at Springdale City Hall	July-Dec 2012	Springdale	
Display of UpStream Art photos, stormwater runoff education, and homeowner pollution prevention BMPs (emphasizing rain barrels) at the Washington County Fair	8/28-9/1/12	Washington Co. MS4s	

Conduct hands-on youth stormwater/water quality education programs

Presented program on the water cycle and pollution prevention given to Shiloh Christian kindergarten classes	1/20/12	Springdale	48
Presented program on water quality education to Springdale 9th grade GT students	3/29-30/12	Springdale	85
Presented as part of a career day to Monitor Elem. 5th graders at Hobbs State Park	4/3/12	Springdale	94
Presented multiple programs (Drop in the bucket, EnviroScape, Surf and Turf, and fish printing) during a Boy Scout Earth Day camp out	4/21/12	Springdale	60
Presented program on treated water cost and conservation at Earth Day event at Botanical Garden of the Ozarks	5/1/12	All MS4s	48
Presented watershed/stormwater runoff program using the EnviroScape model for 4th grade classes at Tyson Elementary School	5/8/12	Springdale	83
All Wet! Water quality educational family day at Shiloh Museum	7/21/12	Springdale	38
Water quality presentation using the EnviroScape watershed runoff model at TG Smith Elementary School	9/13/2012	Springdale	96
Presented programs on increased impervious surfaces/stormwater and pollution prevention BMPs for Willis Shaw 5th grade classes at Camp War Eagle	10/18-19/12	Springdale	106

Conduct stormwater education programs for adult audiences

Presented program on composting to Dig-In Food Festival participants	2/3/12	All MS4s	10
Presented program on watershed dynamics, water quality regulations and pollution prevention BMPs to Tyson employees	3/14/12	All MS4s	13
Conducted two sessions of rain barrel workshops at the Washington County Fairgrounds	4/3/12	Washington Co. MS4s	14
Presented to the Multi-Basin Regional Watershed Council	5/11/12	All MS4s	1

Presented program on composting for the NWA Flower Garden & Nature Society	5/19/12	All MS4s	12
Coordinated with the NWA IECA for Lunch and Learn Presentation	5/22/12	Springdale	1
Presentation on rain gardens and homeowner BMPs to Springdale Noon Kiwanis	7/12/12	Springdale	58
Coordinated the statewide Environmental Education Expo in Fayetteville including a rain garden tour	7/26-27/12	All MS4	2
Coordinated the Blue Pathways III workshop on Permeable Pavement, Rainwater Harvesting and Irrigation Technologies at Fayetteville Town Center	10/26/2012	Springdale	9
Conducted stormwater construction BMP training/quiz during SWEPCO sub-station pre-con meeting	11/1/2012	Springdale	3
Conducted rain barrel workshop at T.G. Smith Elementary	11/15/2012	Springdale	4
Organized a presentation by ADEQ for Short Term Authorizations permits for NWA IECA meeting	11/27/2012	Springdale	2
Conducted stormwater construction BMP training/quiz during Casey's General Store pre-con meeting	12/11/2012	Springdale	8

Train and utilize volunteer educators

Presentation on rain gardens, rain barrels and garden BMPs given during the 2012 Washington Co. County Master Gardener Training	1/18/12	Washington Co. MS4s	7
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Conduct public participation/involvement events

Creek clean-up event held on Spring Creek	11/21/12	Springdale	16
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Conduct MS4 employee training

Conducted Stormwater Jeopardy using TurningPoint audience response remotes at MS4 SCG meeting	10/12/2012	Springdale	1
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Conducted Stormwater Jeopardy using TurningPoint
audience response remotes for Public Works and Parks &
Rec Divisions

12/12/2012

Springdale

62