



ARKANSAS DEPARTMENT OF TRANSPORTATION

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May 29, 2018

Jamal Solaimanian  
Engineer Supervisor  
Arkansas Department of Environmental Quality  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

Dear Mr. Solaimanian:

Reference is made to Regulated Small MS4 NPDES Permit No. ARR040004. Enclosed, please find the Arkansas Department of Transportation's Annual Report covering the period of June 1, 2017- May 31, 2018.

If you have any questions about the report, please contact Josh Seagraves at (501) 569-2522.

Sincerely,

A handwritten signature in blue ink that reads 'John Fleming'.

John Fleming,  
Division Head  
Environmental Division

Enclosures

JF:JS:SD:ym



ARKANSAS  
Department of Environmental Quality

# NPDES Small MS4 General Permit (ARR040000) Annual Reporting Form

**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 1<sup>st</sup>.
- 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: 2017

ADEQ Permit Tracking Number: ARR040004

Name of MS4: Arkansas Department of Transportation (ARDOT)

Primary Contact: Josh Seagraves

Title: Natural Resources Section Head

Mailing Address: P.O. Box 2261

City: Little Rock

Zip Code: 72203

County: Pulaski

Telephone Number: (501) 569-2522

Email Address: josh.seagraves@arkansas.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.

Table of Organization-Attached

ARDOT/Arkansas Health Department have a MOU For Illicit Discharges

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: John Fleming

Print Title: Division Head-Environmental

Signature: 

Date: 5/29/2018

## SMALL MS4 ANNUAL REPORT FORM

### PUBLIC EDUCATION & OUTREACH

Estimate Your Permit Area's Total Population: **4000**

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)
BMP 1.1 Storm Water Educational Handouts  Natural Resources Section	Years 1-5. Provide ARDOT Storm Water Brochure for the public at all Welcome Centers; make annual distribution of brochures to Arkansas State Fair patrons; maintain brochures at selected Central Arkansas libraries. Provide targeted handouts to at least 90% of District construction and maintenance personnel during formal training. Year 2. Create Illicit Discharge Handout for District maintenance personnel. Distribute to at least 90% of target audience.	Impacts of storm water runoff, what ARDOT is doing to prevent pollution from this source and how the ARDOT employees and the public can help; storm water compliance on ARDOT construction and maintenance projects.	ARDOT employees, contractors, and the traveling public at all Welcome Centers.	100% of ARDOT personnel and several hundred Welcome Center Visitors or at least 4000 people have been provided with storm water educational material.	During this Permit Year, storm water educational materials were distributed at NPDES training to 359 Maintenance personnel. Additional efforts include handouts at educational related activities, an article in the Arkansas Highways Magazine, and ARDOT storm water brochures available at all Arkansas Welcome Centers and several public libraries in the Little Rock area.	Yes
BMP 1.2 Storm Water Information on Website  Natural Resources Section	Current Department storm water educational material will be maintained on the website. New material will be posted as it is developed.	Information on the website includes thirteen storm water education publications which cover anti-littering, construction storm water, leaking vehicle fluids, as well as current state and federal regulations to minimize polluted storm water runoff.	Department employees, general public.	No information available on percent of population reached since web visits are anonymous.	During Year 4, the storm water section of the site was accessed 3,512 times. New information was added to the website in Years 2 and 4.	Yes
BMP 1.3 Public Hotline  Natural Resources Section	Document and respond to all hotline calls.	N/A	Department employees, general Public.	The storm water hotline received zero calls during Year 4.	Normally, the general public files complaints with the appropriate ARDOT District or ADEQ. Complaints to ADEQ are referred to ARDOT for resolution. Any calls received through the hotline are handled internally by ARDOT when possible.	Unable to evaluate but the phone number is available for the public's use on the website and in ARDOT publications.

(See Attachment for additional BMPs)

## SMALL MS4 ANNUAL REPORT FORM

### PUBLIC EDUCATION & OUTREACH (Attachment)

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)
BMP 1.4 Spanish Storm Water Material	Years 1-5. At least three Spanish language publications will be maintained on the Department's website.	Importance of proper vehicle maintenance to storm water program; general information on the impacts of storm water and how the public can get involved; how to obtain a storm water permit.	Spanish speaking contractors and members of the public.	The general public is not considered part of the ARDOT population as defined by the Permit. This distribution is an effort to possibly reduce litter, oil, and other waste on the ARDOT rights of way.	During Year 4, there were 84 visits to the Educational Materials portion of the website. This portion of the website has educational information in English and Spanish; therefore, the number of searches by target population members seeking Spanish language information cannot be provided.	Yes
Natural Resources Section						
BMP 1.5 Storm Drain Marking at Maintenance Facilities	Visit 10 Area Maintenance Headquarters (AMHs) during each year of the Permit and install permanent decals at storm water outfalls which discharge off-site.	Caution against allowing pollutants to enter waterways via storm drains.	Department employees	No method of assessing this but over time, all maintenance employees at these facilities will be exposed to the message during their daily activities.	Seventeen AMHs were visited (during Year 4) and decals were installed at facilities with storm drains.	Yes. No instances of dumping material into storm drains at these facilities were reported to the Environmental Division during Year 4.
Natural Resources Section						
BMP 1.6 Department Recurring Publications	Provide Department employees with information on a subject of general environmental interest at least annually through Department publications.	The publishing of the environmentally themed article is timed to coincide with Earth Day. However, for Permit Year 4, there was not adequate room in the magazine; therefore, Permit Year 4's article will run in the July 2018 issue of the Arkansas Highways magazine.	Department employees.	All Department employees (3,755) had the Highways Magazine made available to them and additional hard copies were provided to the public for a total of 4,500 distributed.	Department employees have a better understanding of the importance compost plays in handling storm water runoff and controlling erosion.	Yes
Natural Resources Section						

## SMALL MS4 ANNUAL REPORT FORM

### 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)
BMP 2.1 Public Notice of Storm Water Management Program (SWMP)	SWMP provided for public comment.	N/A	General public, Department employees, and contractors.	N/A	The notice of the ARDOT SWMP was published in the Arkansas Democrat-Gazette on November 5, 2014. No comments were received.	N/A
Natural Resources Section						
BMP 2.2 Involvement with Other Entities	The Department will sponsor or participate in at least eight activities with other public or private groups during each year of the Permit.	Fifteen environmental related meetings were attended or presented by ARDOT personnel including Storm water Conferences, meetings with state-wide stakeholders Arkansas Nat. Res. Commission Non-point Source Meetings, Arkansas Environmental Education Association meetings, DrainSmart Committee, and other storm water related events.	Storm water related public and private entities	Several hundred participants, but other than the ARDOT staff members leading or participating, groups did not meet the "population" criteria of the Permit.	Sharing of ideas and involvement in storm water issues including but not limited to environmental education, permit compliance, and best management practices for participants.	Yes
Natural Resources Section						
BMP 2.3 Maintain SWMP on Website	SWMP, annual reports, and associated documents will be maintained on the Department website during the life of the Permit.	ARDOT storm water program.	Department employees, general public, and contractors.	No information is available on percent of population reached since web visits are anonymous.	During the Permit Year 4, the storm water section of the site was accessed 3,512 times.	Yes
Natural Resources Section						

(See attachments for additional BMPs)

**SMALL MS4 ANNUAL REPORT FORM**

**PUBLIC INVOLVEMENT/PARTICIPATION (Attachment)**

<b>BMP (Activity) &amp; Responsible Party</b>	<b>Measurable Goal</b>	<b>Theme or Message</b>	<b>Target Audience</b>	<b>Estimate of People Participated</b>	<b>Summary of Results</b>	<b>Effective (Yes or No)</b>
<p>BMP 2.4 Sponsor Adopt A Highway Program</p>	<p>The Department will publicize the program through various means with the goal of involving at least 6500 people during the life of the Permit.</p>	<p>Public involvement by keeping the state highways free of litter.</p>	<p>General public</p>	<p>4,086 people reported as participating during the Permit Year 4.</p>	<p>4,086 people adopted 1,435 miles of highway for litter collection. The program remains an effective means of involving concerned citizens in the quest for pollution reduction and highway beautification.</p>	<p>Yes</p>
<p>District Engineers</p>						
<p>BMP 2.5 Litter Hotline</p>	<p>All calls to the hotline will be documented and a letter will be sent to each reported violator where the identity and address of the driver can be ascertained.</p>	<p>Anti-littering. This program is an excellent method of involving the public in the quest to reduce potential pollutants on the State's roadways.</p>	<p>Driving public, Department employees</p>	<p>4,310 people called the hotline.</p>	<p>During Year 4, the Litter Hotline Program received 4,310 litter calls and sent 2,978 letters to suspected violators.</p>	<p>Yes</p>
<p>Arkansas Highway Police</p>						
<p>BMP 2.6 NPDES Standing Committee</p>	<p>All SWMP activities, including required annual reports and other MS4 Permit related actions will be reviewed and approved by the Committee before adoption. Minutes of meetings will be maintained.</p>	<p>N/A</p>	<p>Department Employees</p>	<p>10 Committee members and 3 staff members.</p>	<p>Committee members met in December of 2017 and proposed researching several new BMPs like Flexamat, Compost Filter Blankets, and Polyacrylamide (PAM). Several other storm water related items were discussed and members will be updated throughout the year on progress for future incorporation as Supplemental Specifications and into the Erosion and Sediment Control Manual.</p>	<p>Yes</p>
<p>Committee Chair, Environmental Division</p>						
<p>BMP 2.7 Pre-Construction Conference With Contractors</p>	<p>A Pre-Construction Conference to be held for all contracted jobs with District oversight.</p>	<p>Improved erosion and sediment control through compliance with the Construction Storm Water Permit and the ARDOT SWPPPs.</p>	<p>Department employees, contractors</p>	<p>Two hundred and thirty-one pre-construction meetings were held during Permit Year 4 involving several hundred people.</p>	<p>Meetings scheduled before the project begins are a highly effective means of improving communication and preventing problems between ARDOT personnel and contractors.</p>	<p>Yes</p>
<p>District Construction Engineer</p>						

## SMALL MS4 ANNUAL REPORT FORM

### 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	N/A	N/A	MOU with Arkansas Department of Health for septic system discharges. ADEQ and other MS4 operators with regulatory authority are asked for assistance with other types of discharges when required.		ARDOT does not have regulatory authority over illicit discharges but written procedures for handling such discharges were developed, approved, and distributed to the Districts.		Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates				Effective (Yes or No)
BMP 3.1 Storm Sewer System Outfall Collection and Mapping	The Department will map storm water outfalls and the drainage system for approximately one-fourth of the additional MS4 areas resulting from the 2010 Census each year during Years 1-4 of the Permit.	Ongoing. Multi-year BMP.	During Year 4, Natural Resources staff mapped over 322 miles of the MS4 system and recorded no new outfalls that are in the new urbanized areas.				Yes
Natural Resources Section							
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates				Effective (Yes or No)
IDDE Plan	IDDE plan completed and distributed.	Yes	The ARDOT Illicit Discharge Reporting Protocol was distributed to the Districts and is available on the ARDOT Local Area Networks for the Construction and Maintenance Divisions.				Yes
Natural Resources Section							
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Outfalls Screened	# of Dry-Weather Flows Identified	# Of Illicit Discharges:		Effective (Yes or No)
					Identified*	Eliminated	
BMP 3.2 Dry-Weather Screening of Outfalls # of Outfalls Screened – 932 Total # of Outfalls – 4,733	The Department will dry weather screen approximately one-fourth of the additional MS4 areas resulting from the 2010 Census each year during Years 1-4 of the Permit. Action will be taken to eliminate illicit discharges.	Yes	932 outfalls screened during Permit Year 4.	One dry weather flow was identified and referred to the local MS4 jurisdiction.	Twelve illicit discharges were discovered and reported.	Of the 12 suspected illicit discharges, two were citizen reported discharges of striping paint, two were gray water, one was referred to a POTW, one referred to City MS4, the rest were related to vehicle accidents on the roadway.	Yes
Natural Resources Section							



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BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates	Effective (Yes or No)
Identification of allowable non-storm water discharges	N/A	N/A	The Department has not identified any allowable non-storm water discharges which are significant contributors of pollution to the MS4.	N/A

(See attachment for additional BMPs)



## SMALL MS4 ANNUAL REPORT FORM

### ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE) (Attachment)

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 3.3 Statewide Employee Training Program  Natural Resources Section/ District Maintenance Engineer	Natural Resources Section Personnel will provide illicit discharge training for at least 90% of eligible personnel during each year of the permit.	Yes	359 maintenance personnel were trained during Year 4.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates	Effective (Yes or No)
BMP 3.4 Citizen Reporting of Illicit Discharges  Natural Resources Section	Natural Resources personnel will record all complaints and follow the Illicit Discharge Reporting Protocol to eliminate actual illicit discharges.	Yes	The Department seldom receives illicit discharge reports directly from citizens, but procedures are established to investigate and eliminate such discharges. Normally, citizens will report these discharges to ADEQ or other regulatory agencies; these agencies will either investigate the complaint or contact ARDOT about the problem. A few complaints were received from citizens regarding striping paint washing off the roadway. All paint striping crews received training on illicit discharges and spill response procedures.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates	Effective (Yes or No)
BMP 3.5 Maintenance Facility Staff Assistance Visits  Natural Resources Section	Natural Resources staff to visit 10 of the Department's maintenance facilities during each year of the Permit.	Yes	During Year 4, the Natural Resources staff surveyed 17 of the 94 maintenance facilities for actual or potential illicit discharges. Reports containing areas for possible improvement were provided to the District.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates	Effective (Yes or No)
BMP 3.6 Field Test Equipment Purchase and Personnel Training  Natural Resources Section	Year 2-5: New equipment will be purchased during Year 2 and used to sample suspected illicit discharges.	Yes	The Natural Resources Section has utilized testing equipment for dry weather screening during Year 4.	Yes

## SMALL MS4 ANNUAL REPORT FORM

### 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)
Ordinance or Other Regulatory Mechanism	All ARDOT construction projects with one acre or more of disturbed soil will obtain NPDES Construction Storm Water Permits.	Yes	N/A		All ARDOT construction projects of one acre or more obtained coverage under the NPDES Construction Storm Water General Permit.	Yes
Division Heads-Roadway Design and State Aid						
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	Appropriate erosion and sediment control BMPs are installed on all construction sites.	Yes	NPDES Construction Storm Water Permit and ARDOT Standard Specifications for Highway Construction.		Erosion and sediment control BMPs and SWPPP development were added during design by Roadway Design, State Aid designers, consultant designers or the responsible engineer at the District level and implemented during actual construction.	Yes
State Construction Engineer						
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Complaints		Summary of Results or Activities	Effective (Yes or No)
BMP 4.4 Means for Public Comment on ARDOT Activities	All communications will be answered within 3 business days of receipt. Valid concerns will be relayed to the Construction Division for resolution.	Yes	Received	Followed-Up On	The Department investigated and resolved all complaints received during Permit Year 4.	Yes
Natural Resources Section/State Construction Engineer			16	16		
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	SWPPP produced for each project with one acre or more of disturbed soil.	Yes	27	27	Each SWPPP is reviewed and approved by a P.E. and implemented under the supervision of an engineer.	Yes
Division Heads-Roadway Design and State Aid/ State Construction Engineer						

## SMALL MS4 ANNUAL REPORT FORM

### CONSTRUCTION SITE RUNOFF CONTROL

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Site Inspections Performed			Summary of Results or Activities	Effective (Yes or No)
			# of Applicable Sites	# Performed	Avg. Frequency		
Site Inspection Procedures State Construction Engineer	All ARDOT construction sites with one acre or more of disturbed soil will be inspected at least every seven days as required by the NPDES Construction Storm Water Permit and the SWPPP.	Yes	Since the number of jobs varies from month to month, it isn't feasible to provide an annual number for this BMP.	Since the number of jobs varies from month to month, it isn't feasible to provide an annual number for this BMP.	At least every seven days.	The ARDOT construction and maintenance projects with coverage under the NPDES Construction Storm Water Permit are inspected at least every seven days and inspection records are maintained on the project. Each inspection report is certified by the engineer with project oversight.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Violations		Summary of Results or Activities	Effective (Yes or No)	
			# of Violation Letters	# of Enforcement Actions			
Enforcement Procedures	N/A				This requirement is not applicable to ARDOT.	N/A	

(See attachments for additional BMPs)

## SMALL MS4 ANNUAL REPORT FORM

### CONSTRUCTION SITE RUNOFF CONTROL (Attachment)

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 4.1 Training and Certification Program for Department Personnel Assistant Chief Engineer-Operations	Provide annual training to all construction personnel whose daily duties could impact storm water.	Yes	One hundred thirty-three employees and 110 contractors were trained and certified through the CTTT program during Year 4. To supplement this training, the Natural Resources Section provided in-person erosion and sediment control training for an additional 362 construction personnel during the Permit Year.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 4.2 New Construction BMPs Natural Resources Section-Research State Const. Engineer-Testing NPDES Standing Committee/ Specifications Committee-Adoption	Adopt three new erosion and sediment control BMPs into the Standard Specifications or by Special Provisions during the term of the Permit.	Multi-year BMP	In Year 4, a Special Provision for removing and replacing topsoil was accepted for incorporation into some contracts. Also, the use of Flexamat for hard armoring ditch lines prone to erosion is being researched and tested on a pilot project to determine its applicability to ARDOT projects.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 4.3 Erosion and Sediment Control Design and Construction Manual State Construction Engineer	The Manual will be maintained on all construction and maintenance jobs which require coverage under the Construction Storm Water General Permit. A copy will also be maintained on the Department's website to be used by personnel as necessary.	Yes	The ARDOT Erosion and Sediment Control Design and Construction Manual was updated in 2016. The update included three new BMPs: wattles, triangular silt dike, and filter socks. The Manual is maintained on all ARDOT construction and maintenance jobs which require a SWPPP and as a reference at area maintenance facilities. It is also available on the ARDOT website for Department employees or the general public.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 4.5 Contractor Erosion and Sediment Control Training State Construction Engineer	Training will be offered to Department contractors through the "Notices to Contractors" portion of the ARDOT website and by mailings to all pre-qualified contractors during Years 2 and 4 of the Permit.	Ongoing	During Year 4, a Notice to Contractors was updated on the Contractors Section of the ARDOT website and mailed to pre-qualified contractors to inform them of new training requirements. Prime contractors for projects requiring a SWPPP let to contract after October 1, 2018 must have personnel certified in National Pollutant Discharge Elimination System Training through the Center for Training Transportation Professionals (CTTP) at the University of Arkansas. Additionally all projects with at least an acre of soil disturbance have included a Special Provision regarding required contractor training in the project contract since July 2017.	Yes. Contractors' personnel attend the training.

## SMALL MS4 ANNUAL REPORT FORM

### CONSTRUCTION SITE RUNOFF CONTROL (Attachment)

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 4.6 Staff Assistance Visits to Department Projects Natural Resources Section	Visit at least ten projects during each year of the Permit, provide a report of results to appropriate managers, and provide an overall assessment to the Districts and the Construction Division at the end of each calendar year.	Yes	Members of the Natural Resources staff visited 37 ARDOT projects during Year 4 and provided written feedback to the Districts on the results.	Yes

## SMALL MS4 ANNUAL REPORT FORM

### 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)
Ordinance or Other Regulatory Mechanism	N/A		N/A		ARDOT complies with the requirements of the NPDES Construction Storm Water Permit to fulfill this minimum measure on highway construction. In addition, source control measures are practiced at Department maintenance facilities to prevent pollutants from entering waterbodies.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Structural and/or Non-Structural Standards Being Used		Summary of Results or Activities/Compliance rates with MS4 requirements	Effective (Yes or No)
Post-Construction Requirements	N/A		ARDOT complies with the requirements of the NPDES Construction Storm Water Permit and the ARDOT Standard Specifications for Highway Construction as a means of fulfilling this minimum measure.		Compliance is achieved by obtaining coverage for all ARDOT construction projects under the NPDES Construction Storm Water General Permit and by conforming to Permit and Standard Specifications.	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	Plans and SWPPPs including appropriate post-construction BMPs are produced for each project with one acre or more of disturbed soil.	Yes	27	27	SWPPPs including post-construction BMPs are developed and implemented for all construction projects with one acre or more of disturbed soil. Each site is reviewed by the engineer at the completion of work to ensure all items have been installed as required by the plans and contract.	Yes
State Construction Engineer						
BMP & Responsible Party		Completed (Yes or No)	Violations		Summary of Results or Activities	Effective (Yes or No)
Enforcement Procedures	N/A		# of Violation Letters	# of Enforcement Actions	This BMP is not applicable to ARDOT.	N/A
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	N/A				The function of Maintenance within ARDOT is to operate and maintain the State highway system, which includes the storm water drainage system.	Yes

(See attachment for additional BMPs)

## SMALL MS4 ANNUAL REPORT FORM

### POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT (Attachment)

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities		Effective (Yes or No)	
BMP 5.1 Post-Construction BMPs	Present possible BMP candidates to the NPDES Standing Committee and the New Products Committee for consideration and possible testing on Department projects.	Ongoing	The Natural Resources Section recommended to the New Products Committee a permanent BMP product called "Concrete Cloth" for a pilot project, which was installed in December 2016. The Natural Resources section is evaluating its effectiveness throughout Year 4 and 5. A product named Flexamat is also being evaluated as a post-construction BMP.		Yes	
Natural Resources Section/Research/State Construction Engineer-Testing						
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Site Inspections Performed		Summary of Results or Activities	Effective (Yes or No)
			# Performed	Avg. Frequency		
BMP 5.2 BMP Inspection and Maintenance	Perform follow-up maintenance to keep BMPs in good working order.	Ongoing	Quarterly inspections are required within each of the small regulated MS4 areas in the ARDOT MS4 system.	Inspections are performed at least quarterly.	ARDOT Area Maintenance Supervisors are required to survey the MS4 drainage system within the small MS4 areas at least quarterly to identify maintenance needs. Information and record-keeping guidance for the inspections of the MS4 drainage systems were provided during training in Year 4.	Yes
District Maintenance Engineer						
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities		Effective (Yes or No)	
BMP 5.3 Employee Training	Provide training for Area Maintenance Supervisors in Years 2 and 4 of the Permit.	Year 2 and 4 BMP	The Department provided training on the inspection and maintenance of the MS4 drainage system from February-May 2018 during Year 4.		Yes	
Natural Resources Section/District Maintenance Engineer						
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities		Effective (Yes or No)	
BMP 5.4 Review Plans for New Facilities	Review all new facility plans and recommend the incorporation of permanent BMPs when warranted.	Yes	During Year 4, one site plan for a new facility was reviewed and recommendations were made on possible incorporation of permanent BMPs.		Yes	
Natural Resources Section/Facilities Management						

## SMALL MS4 ANNUAL REPORT FORM

### POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT (Attachment)

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 5.5 Existing Facility BMP Survey	Ten maintenance facilities to be surveyed during each year of the Permit with recommendations provided to the Districts for their consideration.	Yes	During Year 4, 17 of the 94 maintenance facilities with coverage under the MS4 permit were surveyed and recommendations on possible incorporation of permanent BMPs were provided to the Districts where appropriate.	Yes
Natural Resources Section				
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 5.6 Post-Construction BMP Review	A field survey of post-construction BMPs to be conducted on two completed construction projects during each year of the permit with an overall assessment prepared and presented to the NPDES Standing Committee in Permit Year 5.	Multi-year BMP	Two completed jobs were visited during Year 4 of the Permit to assess the effectiveness of the post-construction BMPs. Vegetation was well-established on both projects which is crucial to post-construction storm water management. Another primary focus of the assessment was to check the outlet structures where stormwater discharges off the ARDOT right of way. The Department will continue to evaluate the effectiveness of post-construction BMPs and provide the required assessment in Year 5.	Yes
Natural Resources Section				



## SMALL MS4 ANNUAL REPORT FORM

### 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)
BMP 6.6 Maintenance Employee Training Program	Natural Resources Section to provide annual training to at least 90% of eligible maintenance employees.	Multi-year BMP which will continue for the life of the Permit.	Illicit discharge detection/reporting, MS4 Program requirements, NPDES Pesticide Permit requirements, environmental restraining conditions for maintenance activities, facility pollution prevention plan implementation; spill prevention control and countermeasures.	Maintenance supervisors and facility managers.	359 individuals were trained in Year 4 of the permit.	Training provided by the Natural Resources Section staff included the MS4 SWMP requirements, information on the Pesticide General Permit, spill response procedures and BMPs for facilities and small construction sites.	Yes
Natural Resources Section/ District Maintenance Engineer							
<b>List of Municipal Facilities Subject to Program</b>					<b>O&amp;M Procedures Developed for Facilities (Yes or No)</b>	<b># of Facility Inspections Performed</b>	<b>Frequencies of Such Inspections</b>
This requirement is covered under BMP 6.4 of the SWMP, Pollution Prevention Plans for Department Facilities and BMP 6.5, Staff Assistance Visits to Department Maintenance Facilities.  (A list of ARDOT facilities with Pollution Prevention Plans (PPP) is included in the SWMP.)					Yes	An annual inspection is required at each of the listed ARDOT facilities.	At least annually.
<b>BMP 6.3 MS4 Maintenance</b>	<b>Summarize Maintenance Activities and Schedules</b>			<b>Summarize Activities Performed</b>			
	This requirement is met by following the schedule produced for BMP 5.2, BMP Inspection and Maintenance.			Quarterly inspections of the ARDOT MS4 drainage system within the Small MS4 areas throughout the state and maintenance of the drainage system are performed as a routine activity by Department personnel.			
<b>BMPs 6.1 and 6.8 Disposal of Wastes</b>	<b>Procedures Developed (Yes or No)</b>		<b>Document Amounts of Wastes Properly Disposed</b>				
	Yes		Used motor oil – 30,995 gallons recycled or used for heating.  Litter collected and properly disposed – 50,497 cubic yards				
<b>Road Salt</b>	<b>Covered (Yes or No)</b>		<b>Tons Used</b>	<b>Summarize Measures Taken to Minimize Usage</b>			
	Yes		22,671 tons	Salt application is a major expense for the Department, so only the minimum required to keep the roads safe for travel is applied.			
<b>BMP 6.7 Vegetation Management</b>	<b>Procedures Developed (Yes or No)</b>		<b>Gallons Used</b>	<b>Summarize Measures Taken to Minimize Usage</b>			
	Yes. State Plant Board requirements and the NPDES Pesticide General Permit ARG870000 govern this.		49,605 gallons	1,173 ARDOT herbicide applicators are certified with the Arkansas State Plant Board. Herbicides are applied sparingly and only in areas where other vegetation control methods are not practical. The significant cost of the materials as well as established application procedures and rates limit the amount applied to the job.			

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### POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

	Procedures Developed (Yes or No)	Pounds Used	Summarize Measures Taken to Minimize Usage
<b>BMP 6.7 Fertilizer Usage</b>	Yes	1,041,372 lbs.	The ARDOT Standard Specifications for Highway Construction specify the fertilizer application rates, which were developed to ensure the establishment of new vegetation on disturbed area. ARDOT inspectors ensure the proper rate of fertilizer is used in conjunction with seed application. This number will vary widely from year to year depending on the number and acreage of construction projects let to contract.
	Procedures Developed (Yes or No)	Document Amount of Material Collected and Properly Disposed	
<b>BMP 6.2 Street Sweeping</b>	Streets are swept as required.	5,120 cubic yards of sweeping collected and properly disposed.	
	Summarize any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality		
<b>Flood Management Projects</b>	N/A		

(See attachment for additional BMPs)

## SMALL MS4 ANNUAL REPORT FORM

### POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS (Attachment)

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 6.4 Pollution Prevention Plans for Department Facilities  Natural Resources Section- Development District Maintenance Engineer-Implementation	Maintain and continue to implement Pollution Prevention Plans at all Department maintenance facilities statewide under General Small MS4 Permit.	Yes	Pollution Prevention Plans (PPPs) have been developed and distributed to all maintenance facilities and are updated as required. During annual training for Permit Year 4, all attendees received training on PPP components including but not limited to NPDES MS4 Storm Water Management Plan, Spill Prevention Control & Countermeasures Plan requirements, the Pesticide General Permit, Short-term Activity Authorizations and appropriate BMP implementation.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Results or Activities	Effective (Yes or No)
BMP 6.5 Staff Assistance Visits to Maintenance Facilities  Natural Resources Section	Visit 10 maintenance facilities each year during the term of the Permit.	Yes	During Year 4, the Natural Resources Staff visited 17 of the 94 maintenance facilities to identify possible areas for improvement.	Yes

## 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.

The Arkansas Highway & Transportation Department (AHTD) changed its name ARDOT (Arkansas Department of Transportation) and the NPDES Section was combined with the Natural Resources Section; therefore these changes need to be incorporated into the annual report. Also, the Storm Water Management Program Table of Organization (Table G-1) needs to be updated to reflect the agency's name change, the leadership changes within the Environmental Division and subsequent phone number revisions. The revised table is included in the attachments.

## SMALL MS4 ANNUAL REPORT FORM

### VARIANCES GRANTED (IF ANY)

- Identify and summarize any variances granted under your storm water program.

<b>ARDOT Storm Water Management Program Table of Organization Table G-1</b>			
<b>BMP No.</b>	<b>BMP Description</b>	<b>BMP Point of Contact</b>	<b>Contact Number</b>
	<b>Minimum Measure 1 Public Education and Outreach</b>		
1.1	Storm water educational handouts	Nat. Resources Section	(501) 569- 2553
1.2	Storm water information on ARDOT website	Nat. Resources Section	(501) 569- 2553
1.3	ARDOT public storm water hotline	Nat. Resources Section	(501) 569- 2553
1.4	Spanish storm water educational material	Nat. Resources Section	(501) 569- 2553
1.5	Storm drain marking at Welcome Centers and Rest Areas	Nat. Resources Section	(501) 569- 2553
1.6	Department Recurring Publications	Nat. Resources Section	(501) 569-2553/ 2519
	<b>Minimum Measure 2 Public Involvement/Participation</b>		
2.1	Public notice of Storm Water Management Program (SWMP)	Natural Resources Section	(501) 569- 2553
2.2	Involvement with other entities	Natural Resources Section	(501) 569- 2553
2.3	Maintain Storm Water Management Program on website	Natural Resources Section	(501) 569- 2553
2.4	Adopt A Highway Program	District Engineers	See District Contact List
2.5	Litter Hotline	Arkansas Highway Police	(501) 569-2681
2.6	NPDES Standing Committee	Committee Chair- Environmental Division	(501) 569-2521
2.7	Pre-construction meeting with contractors	District Construction Engineer	(501) 569-2522
	<b>Minimum Measure 3 Illicit Discharge Detection and Elimination</b>		
3.1	Storm Sewer System Outfall Collection and Mapping	Natural Resources Section	(501) 569- 2553
3.2	MS4 dry weather field screening	Natural Resources Section	(501) 569- 2553
3.3	Maintenance employee training	Natural Resources Section	(501) 569- 2553
3.4	Hotline and website reporting for public	Natural Resources Section	(501) 569-2522/ 2553
3.5	Maintenance facility staff assistance visits	Natural Resources Section	(501) 569- 2553
3.6	Field Test Equipment Purchase and Personnel Training	Natural Resources Section	(501) 569-2519

**ARDOT Storm Water Management Program Table of Organization  
Table G-1**

<b>BMP No.</b>	<b>BMP Description</b>	<b>BMP Point of Contact</b>	<b>Contact Number</b>
	<b>Minimum Measure 4 Construction Site Storm Water Runoff Control</b>		
4.1	Erosion and sediment control training and certification program	State Construction Engineer	(501) 569-2221
4.2	New standard features and methods for construction BMPs	Nat. Resources Section /State Construction Engineer	(501) 569-2522 (501) 569-2251
4.3	Erosion and Sediment Control Manual	State Construction Engineer	(501) 569-2251
4.4	Method for public comments on ARDOT activities	Natural Resources Section	(501) 569-2230/ 2553
4.5	Contractors erosion and sediment control training	State Construction Engineer	(501) 569-2251
4.6	Staff assistance visits to ARDOT construction sites	Natural Resources Section	(501) 569-2522/ 2519
	<b>Minimum Measure 5 Post Construction Storm Water Management in New Development and Redevelopment</b>		
5.1	Research and implement new post-construction BMPs	Nat. Resources Section /State Construction Engineer	(501) 569-2519/ (501) 569-2251
5.2	Maintenance of Permanent BMPs	District Maintenance Engineers	See District Contact List
5.3	Employee training	Nat. Resources Section /District Maintenance Engineers	(501) 569-2553/ See District Contact List
5.4	Review plans of new facilities	Natural Resources Section	(501) 569-2553/2522
5.5	Review existing facilities	Natural Resources Section	(501) 569-2230/ 2553
5.6	Post construction BMP review	Natural Resources Section	(501) 569-2519/ 2522

<b>ARDOT Storm Water Management Program Table of Organization Table G-1</b>			
<b>BMP No.</b>	<b>BMP Description</b>	<b>BMP Point of Contact</b>	<b>Contact Number</b>
	<b>Minimum Measure 6 Pollution Prevention/Good Housekeeping for Municipal Operations</b>		
6.1	Collect and dispose of litter from right of way	District Maintenance Engineer	(501) 569-2522*
6.2	Street sweeping	District Maintenance Engineer	(501) 569-2522*
6.3	Drainage system surveys	District Maintenance Engineer	(501) 569-2522*
6.4	Pollution prevention plans for Department facilities	Nat. Resources Section/District Maintenance Engineer	(501) 569-2553/ See District Contact List
6.5	Staff assistance visits to maintenance facilities	Natural Resources Section	(501) 569-2553/2522
6.6	Maintenance employee training	Nat. Resources Section/District Maintenance Engineer	(501) 569-2553/ See District Contact List
6.7	Vegetation management	State Maintenance Engineer	(501) 569-2231
6.8	Litter Tracking	State Maintenance Engineer	(501) 569-2231

Note: \* Contact numbers are for the Natural Resources Section Head who can provide the appropriate number for a particular District.