

ARKANSAS STATE HIGHWAY
AND
TRANSPORTATION DEPARTMENT

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May 22, 2017

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 State Highway and Transportation Department's Annual Report covering the period of June 1, 2016- May 31, 2017.

If you have any questions about the report, please contact Gary Williamson at (501) 569-2230.

Sincerely,

John Fleming,
Environmental Division Chief

Enclosure: NPDES Regulated Small MS4 2016 Annual Report

JF:GW



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 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: 2016

ADEQ Permit Tracking Number: ARR040004

Name of MS4: Arkansas State Highway and Transportation Department (AHTD)

Primary Contact: Gary L. Williamson

Title: NPDES Section Head

Mailing Address: P.O. Box 2261

City: Little Rock

Zip Code: 72203

County: Pulaski

Telephone Number: (501) 569-2230

Email Address: gary.williamson@arkansashighways.com

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

AHTD/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: *John Fleming*

Date: 5/22/2017



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	Years 1-5. Provide AHTD 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.	Impacts of storm water runoff, what AHTD is doing to prevent pollution from this source and how the AHTD employees and the public can help; storm water compliance on AHTD construction and maintenance projects.	AHTD employees, contractors, and the traveling public at all Welcome Centers.	100% of AHTD 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 356 Maintenance personnel. Additional efforts include handouts at educational related activities, an article in the Arkansas Highways Magazine, and AHTD storm water brochures available at all Arkansas Welcome Centers and several public libraries in the Little Rock area.	Yes
NPDES Section	Year 2. Create illicit Discharge Handout for District maintenance personnel. Distribute to at least 90% of target audience.	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 stormwater runoff.	Department employees, general public.	No information available on percent of population reached since web visits are anonymous.	During Year 3, the storm water section of the site was accessed 3,641 times. New information is added as needed to the website.	Yes
BMP 1.2 Storm Water Information on Web Site	Current Department storm water educational material will be maintained on the web site. New material will be posted as it is developed.	N/A	Department employees, general Public.	The storm water hotline received no calls during Year 3.	Complaints received are disseminated to the appropriate AHTD District or ADEQ. Complaints received by ADEQ are referred to AHTD for resolution. Any calls received through the hotline are handled internally by AHTD when possible.	Unable to evaluate but number is available for the public's use on the website and in AHTD publications.
NPDES Section	Document and respond to all hotline calls.					
BMP 1.3 Public Hotline						
NPDES Section						

(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 AHTD population as defined by the Permit. This distribution is an effort to possibly reduce litter, oil, and other waste on the AHTD rights of way.	During Year 3, there were 73 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
NPDES 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.	Fourteen AMHs were visited (during Year 3) 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 3.
NPDES 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.	For Permit Year 3, an article was featured in the Arkansas Highways magazine on the litter hotline.	Department employees.	All Department employees (3,752) had the Highways Magazine made available to them and additional hard copies were provided to the public for a total of 4,250 distributed.	Department employees have a better understanding of the importance of the litter hotline.	Yes
NPDES 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 AHTD SWMP was published in the Arkansas Democrat-Gazette on November 5, 2014. No comments were received.	N/A
NPDES 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.	Sixteen environmental related meetings were attended or presented by AHTD personnel including EPA Region 6 Stormwater Conference, meetings with state-wide stakeholders, Arkansas Nat. Res. Commission Non-point Source meetings, Arkansas Environmental Education Association meetings, DrainSmart Committee, Earth Day presentations and other storm water related events.	Storm water related public and private entities	Several hundred participants, but other than the AHTD staff members leading or participating, groups did not meet the "population" criteria of the Permit.	Sharing of ideas and involvement in stormwater issues including but not limited to environmental education, permit compliance, and best management practices for participants.	Yes
NPDES Section						
BMP 2.3 Maintain SWMP on Web site	SWMP, annual reports, and associated documents will be maintained on the Department web site during the life of the Permit.	AHTD 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 3, the storm water section of the site was accessed 3,641 times.	Yes
NPDES Section						

(See attachments for additional BMPs)

SMALL MS4 ANNUAL REPORT FORM

PUBLIC INVOLVEMENT/PARTICIPATION (Attachment)

BMP (Activity) & Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate of People Participated	Summary of Results	Effective (Yes or No)
<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>5,795 people reported as participating during the Permit Year 3.</p>	<p>5,795 people adopted 1,509 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>4,945 people called the hotline.</p>	<p>During Year 3, the Litter Hotline Program received 4,945 litter calls and sent 3,230 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 September of 2016, and proposed three new BMPs: 1) Filter Socks as a Supplemental Specification, 2) a pilot project for an alternative sand bag ditch check arrangement, 3) Concrete cloth as a post-construction BMP. Additional stormwater related items were discussed and are actively being worked in Year 3 for future incorporation into the Erosion and Sediment Control Manual and the SWMP.</p>	<p>Yes</p>
<p>Committee Chair, Environmental Division</p>						

SMALL MS4 ANNUAL REPORT FORM

<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 AHTD SWPPPs.</p>	<p>Department employees, contractors</p>	<p>One hundred and thirty- nine pre-construction meetings were held during Permit Year 3 involving several hundred people.</p>	<p>Meetings scheduled before the project begins are a highly effective means of improving communication and preventing problems between AHTD personnel and contractors.</p>	<p>Yes</p>
<p>District Construction Engineer</p>						



ARKANSAS
Department of Environmental Quality

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 Health Department for septic system discharges. ADEQ and other MS4 operators with regulatory authority are asked for assistance with other types of discharges when required.	AHTD 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 3, the NPDES staff mapped over 153 miles of the MS4 system and recorded 31 new outfalls that are in the new urbanized areas.		Yes				
NPDES 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 AHTD Illicit Discharge Reporting Protocol was distributed to the Districts and is available on the AHTD Local Area Networks for the Construction and Maintenance Divisions.		Yes				
NPDES Section									
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Outfalls Screened	# of Dry-Weather Flows Identified	# Of Illicit Discharges:				
BMP 3.2 Dry-Weather Screening of Outfalls # of Outfalls Screened – 424 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	424 outfalls screened during Permit Year 3.	Ten illicit discharges were discovered and reported.	<table border="1"> <tr> <td>Identified*</td> <td>Eliminated</td> </tr> <tr> <td>Ten illicit discharges were discovered and reported.</td> <td>Eight suspected illicit discharges were found by AHTD personnel. Four were referred to ADH, one was referred to an MS4 City, one was a small spill, and the rest were related to vehicle accidents on the roadway.</td> </tr> </table>	Identified*	Eliminated	Ten illicit discharges were discovered and reported.	Eight suspected illicit discharges were found by AHTD personnel. Four were referred to ADH, one was referred to an MS4 City, one was a small spill, and the rest were related to vehicle accidents on the roadway.
Identified*	Eliminated								
Ten illicit discharges were discovered and reported.	Eight suspected illicit discharges were found by AHTD personnel. Four were referred to ADH, one was referred to an MS4 City, one was a small spill, and the rest were related to vehicle accidents on the roadway.								
NPDES Section					Yes				

SMALL MS4 ANNUAL REPORT FORM

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	NPDES Section Personnel will provide illicit discharge training for at least 90% of eligible personnel during each year of the permit.	Yes	Three hundred and fifty-six maintenance personnel were trained during Year 3.	Yes
NPDES Section/ District Maintenance Engineer				
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	NPDES 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 AHTD about the problem. Several complaints were received from Department employees and these have been addressed.	Yes
NPDES Section				
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	NPDES staff to visit 10 of the Department's maintenance facilities during each year of the Permit.	Yes	During Year 3, the NPDES staff surveyed 14 of the 94 maintenance facilities for actual or potential illicit discharges. Reports were provided to the District containing areas for possible improvement.	Yes
NPDES Section				
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	Year 2-5: New equipment will be purchased during Year 2 and used to sample suspected illicit discharges.	Yes	The NPDES Section has utilized testing equipment for dry weather screening during Year 3.	Yes
NPDES Section				



ARKANSAS
Department of Environmental Quality

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 AHTD construction projects with one acre or more of disturbed soil will obtain NPDES Construction Storm Water Permits.	Yes	N/A	All AHTD 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 AHTD Standard Specifications for Highway Construction.	Erosion and sediment control BMPs were added during design and SWPPP development by Roadway Design, State Aid designers, consultant designers or the District and implemented during actual construction under the supervision of the responsible engineer at the district level.	Yes
State Construction Engineer					
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Complaints		Effective (Yes or No)
BMP 4.4 Means for Public Comment on AHTD 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	Yes
NPDES Section/State Construction Engineer			9	9	The Department investigated and resolved all complaints received during Permit Year 3.
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Applicable Sites Requiring Plans	# of Plans Reviewed	Summary of Results or Activities
Site Plan Review Procedures	SWPPP produced for each project with one acre or more of disturbed soil.	Yes	45	45	Each SWPPP is reviewed and approved by a P.E. and implemented under the supervision of an engineer.
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 AHTD 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 AHTD 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 oversight for the project.	Yes
BMP & Responsible Party	Measurable Goal	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 requirement is not applicable to AHTD.	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	Seventy two people were trained and certified through the CTPP program during Year 3. To supplement this training, the NPDES Section provided online erosion and sediment control training for an additional 379 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 NPDES 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.	Completed Multi-year BMP	In Year 3, Filter Socks were approved by the New Products Committee and added as a Supplemental Specification to Standard Specifications for Highway Construction. Additionally, Proganics Biotic Soil Media, an engineered soil product, was added to the Qualified Products List following testing and evaluation on an AHTD project. A Concrete Cloth demonstration was installed on a maintenance job and is being evaluated for its effectiveness as permanent erosion control for construction and maintenance 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 web site to be used by personnel as necessary.	Yes	The AHTD Erosion and Sediment Control Design and Construction Manual was updated in 2016. The update included three new BMPs: wattles, triangular silt dikes, and filter socks. The Manual is maintained on all AHTD construction and maintenance jobs, which require a SWPPP and as a reference at area maintenance facilities. It is also available on the AHTD 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 AHTD website and by mailings to all pre-qualified contractors during Years 2 and 4 of the Permit.	Completed Ongoing	A Notice to Contractors is permanently posted on the Contractors Section of the AHTD web site to inform contractors of the availability of the training. A mailing was sent to pre-qualified contractors in Year 2 and another will be sent in Year 4. The Department has worked towards requiring Contractor training for jobs with NPDES permits and this will be implemented in October 2018.	Yes. Contractors do 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 NPDES Section	Visit at least ten projects during each year of the Permit, with 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 NPDES Staff visited 31 AHTD projects during Year 3 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	AHTD complies with the requirements of the NPDES Construction Stormwater 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		AHTD complies with the requirements of the NPDES Construction Storm Water Permit and the AHTD Standard Specifications for Highway Construction as a means of fulfilling this minimum measure.	Compliance is achieved by obtaining coverage for all AHTD 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	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	45	45	Yes
State Construction Engineer				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.	
BMP & Responsible Party		Completed (Yes or No)	Violations		Effective (Yes or No)
Enforcement Procedures	N/A		# of Violation Letters	# of Enforcement Actions	N/A
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Sites Requiring Plans/Agreements	# of Plans Developed/Agreements in Place	Effective (Yes or No)
Long-Term O&M Plans/Agreements	N/A				Yes
				The function of Maintenance within AHTD is to operate and maintain the State highway system, which includes the storm water drainage system.	

(See attachment for additional BMPs)



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

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)	Site Inspections Performed		Summary of Results or Activities	Effective (Yes or No)
			# Performed	Avg. Frequency		
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	Quarterly inspections are required within each of the small regulated MS4 areas in the AHTD MS4 system.	Inspections are performed at least quarterly.	The NPDES 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 NPDES section is evaluating its effectiveness throughout Year 3 and 4.	Yes
NPDES 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)
BMP 5.2 BMP Inspection and Maintenance District Maintenance Engineer	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 AHTD MS4 system.	Inspections are performed at least quarterly.	AHTD 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 3.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Site Inspections Performed		Summary of Results or Activities	Effective (Yes or No)
BMP 5.3 Employee Training NPDES Section/District Maintenance Engineer	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 2017 during Year 3.	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Site Inspections Performed		Summary of Results or Activities	Effective (Yes or No)
BMP 5.4 Review Plans for New Facilities NPDES Section/Facilities Management	Review all new facility plans and recommend the incorporation of permanent BMPs when warranted.	Yes			During Year 3, one site plan for a new facility was reviewed and recommendations were made on possible incorporation of permanent BMPs.	Yes

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 NPDES Section	Ten maintenance facilities to be surveyed during each year of the Permit with recommendations provided to the Districts for their consideration.	Yes	During Year 3, 14 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
BMP & Responsible Party BMP 5.6 Post-Construction BMP Review NPDES Section	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.	Completed (Yes or No) Multi-year BMP	Summary of Results or Activities Two completed jobs were visited during Year 3 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 AHTD right of way. The Department will continue to evaluate the effectiveness of post-construction BMPs and provide the required assessment in Year 5. The Concrete Cloth demonstration was installed on a maintenance job and is being evaluated for its effectiveness as permanent erosion control on construction and maintenance projects.	Effective (Yes or No) Yes

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	NPDES 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.	Three hundred and fifty-six individuals were trained in Year 3 of the permit.	Training provided by the NPDES Section staff included the MS4 SWMP requirements, information on the Pesticide General Permit, illicit discharge detection/reporting, spill response procedures, and BMPs for facilities and small construction sites.	Yes
NPDES Section/ District Maintenance Engineer	<p>List of Municipal Facilities Subject to Program</p> <p>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 Maintenance Facilities.</p> <p>(A list of AHTD facilities with Pollution Prevention Plans (PPP) is included in the SWMP.)</p>						
BMP 6.3 MS4 Maintenance	<p>Summarize Maintenance Activities and Schedules</p> <p>This requirement is met by following the schedule produced for BMP 5.2, BMP Inspection and Maintenance.</p>						
BMPs 6.1 and 6.8 Disposal of Wastes	<p>Procedures Developed (Yes or No)</p> <p>Yes</p> <p>Used motor oil – 29,811 gallons recycled or used for heating. Litter collected and properly disposed – 53,511 cubic yards</p>						
Road Salt	<p>Covered (Yes or No)</p> <p>Yes</p> <p>Tons Used</p> <p>13,390 tons</p>						
BMP 6.7 Vegetation Management	<p>Procedures Developed (Yes or No)</p> <p>Yes. State Plant Board requirements and the NPDES Pesticide General Permit ARG870000 govern this.</p> <p>Gallons Used</p> <p>68,662 gallons</p> <p>Summarize Measures Taken to Minimize Usage</p> <p>1,024 AHTD herbicide applicators are certified with the Arkansas State Plant Board. Herbicides are used in areas where other vegetation control methods are not practical. The cost of the materials as well as established application procedures and rates limit the amount applied to the job.</p>						

SMALL MS4 ANNUAL REPORT FORM

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

	Procedures Developed (Yes or No)	Pounds Used	Summarize Measures Taken to Minimize Usage
BMP 6.7 Fertilizer Usage	Yes	796,493 lbs.	The AHTD Standard Specifications for Highway Construction specify the fertilizer application rates which were developed to ensure the establishment of new vegetation on disturbed area. AHTD 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.
BMP 6.2 Street Sweeping	Procedures Developed (Yes or No) Streets are swept as required.	5,338 cubic yards of sweeping collected and properly disposed.	Document Amount of Material Collected and Properly Disposed
Flood Management Projects	N/A	Summarize any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality	

(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 NPDES 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 3, 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	Visit 10 maintenance facilities each year during the term of the Permit.	Yes	During Year 3, the NPDES Staff visited 14 of the 94 maintenance facilities to identify possible areas for improvement.	Yes
NPDES Section				



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.

We propose to change the language of the Measurable Goal for BMP 1.3 to remove "AHTD public storm water hotline" and rename it to "Public Feedback on Department Activities". This change will show the multiple mechanisms available for the public to provide feedback to the Department. In addition to the public hotline, AHTD has made available several electronic measures such as the contact page on the IDrive Arkansas website, Idrive app, and Twitter page. This statement is a better explanation of implementation of this BMP.

SMALL MS4 ANNUAL REPORT FORM

VARIANCES GRANTED (IF ANY)

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

**AHTD Storm Water Management Program Table of Organization
May 2017**

BMP No.	BMP Description	BMP Point of Contact	Contact Number
	Minimum Measure 1 Public Education and Outreach		
1.1	Storm water educational handouts	NPDES Section	(501) 569-2230/ 2553
1.2	Stormwater information on AHTD website	NPDES Section	(501) 569-2230/ 2553
1.3	AHTD public storm water hotline	NPDES Section	(501) 569-2230/ 2553
1.4	Spanish storm water material	NPDES Section	(501) 569-2230/ 2553
1.5	Storm drain marking at Area Maintenance Facilities	NPDES Section	(501) 569-2230/ 2553
1.6	Department Recurring Publications	NPDES Section	(501) 569-2230
	Minimum Measure 2 Public Involvement/Participation		
2.1	Public notice of Storm Water Management Program (SWMP)	NPDES Section	(501) 569-2230/ 2553
2.2	Involvement with other entities	NPDES Section	(501) 569-2230/ 2553
2.3	Maintain Storm Water Management Program on website	NPDES Section	(501) 569-2230/ 2553
2.4	Adopt A Highway Program	District Engineers	(501) 569-2230*
2.5	Litter Hotline	Arkansas Highway Police	(501) 569-2681
2.6	NPDES Standing Committee	Committee Chair- Environmental Division	(501) 569-2285
2.7	Pre-construction conference with contractors	District Construction Engineer	(501) 569-2230*
	Minimum Measure 3 Illicit Discharge Detection and Elimination		
3.1	Storm sewer system mapping	NPDES Section	(501) 569-2230/ 2553
3.2	MS4 dry weather field screening	NPDES Section	(501) 569-2230/ 2553
3.3	Maintenance employee training	District Maintenance Engineer	(501) 569-2230*
3.4	Hotline and website reporting for public	NPDES Section	(501) 569-2230/ 2519
3.5	Maintenance facility staff assistance visits	NPDES Section	(501) 569-2230/ 2553
3.6	Field Test Equipment Purchase and Personnel Training	NPDES Section	(501) 569-2230/ 2519

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

BMP No.	BMP Description	BMP Point of Contact	Contact Number
	Minimum Measure 4 Construction Site Storm Water Runoff Control		
4.1	Training and certification program for Department Personnel	State Construction Engineer	(501) 569-2251
4.2	New standard features and methods for construction BMPs	NPDES Section/State Construction Engineer	(501) 569-2230/ (501) 569-2251
4.3	Erosion and Sediment Control Manual	State Construction Engineer	(501) 569-2251
4.4	Method for public comments on AHTD activities	NPDES Section	(501) 569-2230/ 2519
4.5	Contractors erosion and sediment control training	NPDES Section/State Construction Engineer	(501) 569-2230 (501) 569-2251
4.6	Staff assistance visits to Department Projects	NPDES Section	(501) 569-2230/ 2519
	Minimum Measure 5 Post Construction Storm Water Management in New Development and Redevelopment		
5.1	Research and implement new post-construction BMPs	NPDES Section/State Construction Engineer	(501) 569-2230/ (501) 569-2251
5.2	BMP inspection & maintenance	District Maintenance Engineer	(501) 569-2230*
5.3	Employee training	NPDES Section/District Maintenance Engineer	(501) 569-2230*/ (501) 569-2231
5.4	Review plans of new facilities	NPDES Section	(501) 569-2230/ 2553
5.5	Review existing facilities	NPDES Section	(501) 569-2230/ 2553
5.6	Post construction BMP review	NPDES Section	(501) 569-2230/ 2519
	Minimum Measure 6 Pollution Prevention/Good Housekeeping for Municipal Operations		
6.1	Collect and dispose of litter from right of way	District Maintenance Engineer	(501) 569-2230*
6.2	Street sweeping	District Maintenance Engineer	(501) 569-2230*
6.3	Drainage system surveys	District Maintenance Engineer	(501) 569-2230*
6.4	Pollution prevention plans for Department facilities	NPDES Section/District Maintenance Engineer	(501) 569-2230*
6.5	Staff assistance visits to maintenance facilities	NPDES Section	(501) 569-2230/ 2553
6.6	Maintenance employee training	NPDES Section/District Maintenance Engineer	(501) 569-2230/ 2553
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 NPDES Section Head who can provide the appropriate number for a particular District.

Department Statewide Facility List, by District

DISTRICT ONE FACILITIES		
FACILITY NAME	CITY	COUNTY
Crittenden County #1 Area Headquarters & RE Office #14	West Memphis	Crittenden
Crittenden County #2 Area Headquarters	Lehi	Crittenden
Cross County Area Headquarters and RE Office #13	Wynne	Cross
District 1 Headquarters	Wynne	Cross
Lee County Area Headquarters	Marianna	Lee
Monroe County Area Headquarters	Brinkley	Monroe
Phillips County Area Headquarters	Walnut Corner	Phillips
St. Francis County Area Headquarters	Forrest City	St. Francis
Woodruff County Area Headquarters	McCrary	Woodruff

DISTRICT TWO FACILITIES		
FACILITY NAME	CITY	COUNTY
Arkansas County #1 Area Headquarters	Stuttgart	Arkansas
Arkansas County #2 Area Headquarters	DeWitt	Arkansas
Ashley County Area Headquarters	Hamburg	Ashley
Chicot County Area Headquarters	Lake Village	Chicot
Desha County Area Headquarters and RE Office #24	McGehee	Desha
District 2 Headquarters and RE Office #23	Pine Bluff	Jefferson
Drew County Area Headquarters and RE Office #21	Monticello	Drew
Grant County Area Headquarters	Sheridan	Grant
Jefferson County Area Headquarters	Pine Bluff	Jefferson
Lincoln County Area Headquarters	Star City	Lincoln

DISTRICT THREE FACILITIES		
FACILITY NAME	CITY	COUNTY
District 3 Headquarters and RE Office #32	Hope	Hempstead
Hempstead County Area Headquarters	Hope	Hempstead
Howard County Area Headquarters and RE Office #31	Nashville	Howard
Lafayette County Area Headquarters	Lewisville	Lafayette
Little River County Area Headquarters	Ashdown	Little River
Miller County Area Headquarters and RE Office #34	Texarkana	Miller
Nevada County Area Headquarters	Prescott	Nevada
Pike County Area Headquarters	Murfreesboro	Pike
Sevier County Area Headquarters	DeQueen	Sevier

DISTRICT FOUR FACILITIES		
FACILITY NAME	CITY	COUNTY
Crawford County #1 Area Headquarters	Alma	Crawford
Crawford County #2 Area Headquarters	Mountainburg	Crawford
District 4 Headquarters and RE Office #42	Barling	Sebastian
Franklin County Area Headquarters	Ozark	Franklin
Logan County Area Headquarters	Paris	Logan
Polk County Area Headquarters	Mena	Polk
Scott County Area Headquarters and RE Office #41	Waldron	Scott
Sebastian County #1 Area Headquarters	Greenwood	Sebastian
Sebastian County #2 Area Headquarters	Barling	Sebastian
Washington County #1 Area Headquarters	Lincoln	Washington
Washington County #2 Area Headquarters and RE Office #43	Fayetteville	Washington

DISTRICT FIVE FACILITIES		
FACILITY NAME	CITY	COUNTY
Cleburne County Area Headquarters	Heber Springs	Cleburne
District 5 Headquarters, Independence County Area Headquarters, and RE Offices #52 and 53	Batesville	Independence
Fulton County Area Headquarters	Salem	Fulton
Izard County Area Headquarters	Melbourne	Izard
Jackson County Area Headquarters	Newport	Jackson
Sharp County Area Headquarters	Hardy	Sharp
Stone County Area Headquarters	Mtn. View	Stone
White County #1 Area Headquarters and RE Office #55	Searcy	White
White County #2 Area Headquarters	Bald Knob	White

DISTRICT SIX FACILITIES		
FACILITY NAME	CITY	COUNTY
Central Complex, District 6 Headquarters, Pulaski County #3 Area Headquarters, & RE Office # 65	Little Rock	Pulaski
Central Shop, Maintenance Headquarters, and Materials Lab Annex	Little Rock	Pulaski
Garland County Area Headquarters and RE Office #64	Hot Springs	Garland
Hot Springs County Area Headquarters	Malvern	Hot Springs
Lonoke County Area Headquarters	Lonoke	Lonoke
Prairie County Area Headquarters	Hazen	Prairie
Pulaski County #1 Area Headquarters and RE Office #61	North Little	Pulaski
Pulaski County #2 Area Headquarters and RE Office #62	Little Rock	Pulaski
Saline County Area Headquarters	Benton	Pulaski

DISTRICT SEVEN FACILITIES		
FACILITY NAME	CITY	COUNTY
Bradley County Area Headquarters	Warren	Bradley
Calhoun County Area Headquarters	Hampton	Calhoun
Clark County Area Headquarters and RE Sub-Office #73	Arkadelphia	Clark
Cleveland County Area Headquarters	Rison	Cleveland
Columbia County Area Headquarters	Magnolia	Columbia
Dallas County Area Headquarters	Fordyce	Dallas
District 7 Headquarters and RE Office #74	Camden	Ouachita
Ouachita County Area Headquarters	Camden	Ouachita
Union County Area Headquarters and RE Office #76	El Dorado	Union

DISTRICT EIGHT FACILITIES		
FACILITY NAME	CITY	COUNTY
Conway County Area Headquarters	Morrilton	Conway
District 8 Headquarters and RE Office #86	Russellville	Pope
Faulkner County Area Headquarters and RE Office #84	Conway	Faulkner
Johnson County Area Headquarters and RE Office #82	Clarksville	Johnson
Montgomery County Area Headquarters	Pencil Bluff	Montgomery
Perry County Area Headquarters	Perryville	Perry
Pope County Area Headquarters	Russellville	Pope
Van Buren County Area Headquarters	Clinton	Van Buren
Yell County Area Headquarters	Danville	Yell

DISTRICT NINE FACILITIES		
FACILITY NAME	CITY	COUNTY
Baxter County Area Headquarters	Mountain Home	Baxter
Benton County #1 Area Headquarters	Garfield	Benton
Benton County #2 Area Headquarters	Gentry	Benton
Boone County Area Headquarters	Harrison	Boone
Carroll County Area Headquarters	Berryville	Carroll
District 9 Headquarters and RE Office #92	Harrison	Boone
Madison County Area Headquarters	Huntsville	Madison
Marion County Area Headquarters and RE Office #95	Yellville	Marion
Newton County Area Headquarters	Jasper	Newton
Peel Ferry Maintenance Building	Peel	Marion
Searcy County Area Headquarters	Marshall	Searcy

DISTRICT TEN FACILITIES

FACILITY NAME	CITY	COUNTY
Clay County Area Headquarters	Corning	Clay
Craighead County Area Headquarters and RE Office #06	Jonesboro	Craighead
District 10 Headquarters and RE Office #04	Paragould	Greene
Greene County Area Headquarters	Paragould	Greene
Lawrence County Area Headquarters	Walnut Ridge	Lawrence
Mississippi County #1 Area Headquarters	Osceola	Mississippi
Mississippi County #2 Area Headquarters	Blytheville	Mississippi
Poinsett County Area Headquarters	Marked Tree	Poinsett
Randolph County Area Headquarters	Pocahontas	Randolph