



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 19TH AIRLIFT WING (AMC)
LITTLE ROCK AIR FORCE BASE, ARKANSAS


MAY 29 2014

MEMORANDUM FOR Arkansas Department of Environmental Quality

FROM: 19 CES/CE2
528 Thomas Ave.
Little Rock AFB AR 72099-4987

SUBJECT: Annual National Pollutant Discharge Elimination System (NPDES) Regulated Small
Municipal Separate Storm Sewer Systems (MS4) Storm Water Permit Report

1. Please find the enclosed annual report for Little Rock Air Force Base, Permit No. ARR040034.
2. For further information or assistance, please contact Mr. Steve Potes at 501-987-6809.


JENNIFER A. HARRIS, GS-13, DAF
Deputy Base Civil Engineer

Attachments:

1. Annual Report Form
2. Revised Table of Organization
3. Illicit Connection Project Schedule
4. Construction Design Reviewed/Inspected May 2013 to May 2014
5. List of Hazardous Waste Processes in Facilities
6. Facility Diagram

cc:

ADEQ Water Division Permits Branch Stormwater Engineer



AR KANSAS
Department of Environmental Quality

NPDES Small MS4 General Permit (ARR040000)
Attach 1 2013/2014 Annual Report

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: 2014 (June 2013 to June 2014)

ADEQ Permit Tracking Number:ARR040034, AFIN 88-00858

Name of MS4: Phase II MS4 Permit Coverage for Little Rock Air Force Base

Primary Contact: JENNIFER A.HARRIS, GS-13 DAF /Mr. Steve Potes Title: Deputy Base Civil Engineer/Stormwater Manager

Mailing Address:19 Civil Engineering Squadron Building 528 Thomas Avenue

City: Little Rock AFB AR Zip Code: 72099 County: Pulaski County

Telephone Number: 501-987-6486/987-6809 Email Address:jennifer.harris.1@us.af.mil/stephen.potes1@us.af.mil

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.

Steve Potes replaced Pam Waisanen as Stormwater Manager on 24MAR2014 and can be reached at 501-987-6809. See attachment B for the current Table of Organization.

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: _____ JENNIFER A.HARRIS, GS-13 DAF
Print Title: _____ Deputy Base Civil Engineer

Signature:  _____ Date: MAY 29 2014

SMALL MS4 ANNUAL REPORT FORM (Attach 1)

A. PUBLIC EDUCATION & OUTREACH BMPs for 2013/2014

Estimate Your Permit Area's Total Population: 15,804

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)
1. Distribute educational pamphlets through Family Housing. 19 CES/CEIE	Distribute resident guidelines to 100% of lessees	Repair of vehicles and oil changes are forbidden throughout the entire community and yard housekeeping procedures are listed.	All 991 lessees in privatized Family Housing.	80% of residents received guidelines three years ago, and 20% for the last two years which covers resident turnover.	100% of occupants have received environmental guidelines in Hunt/Pinnacle Communities' Residents' Guidelines.	Yes
2. Respond to all call-ins and emails for storm water violations. 19 CES/CEIE	Research violations and discuss remedies with violator(s). Find out who's responsible and act immediately.	Every complaint is researched and addressed.	Any person whose actions may harm the environment was given an explanation of the law and possible impacts to stormwater were explained.	In addition to the Storm Water Manager, the Resource Manager and Upper Management, as well as other groups and departments, have also pointed out deficiencies.	100% of calls were addressed immediately. The stormwater manager verified that recommendations were followed.	Yes
3. Arbor Day Presentation 19 DEC 2013 19 CES/CEIE	Educate base leadership and population on importance of trees. Planted new base tree, red oak.	Guest Speaker Col. Patrick Rhatigan with Col. Rockie Wilson. Fifty base personnel including members of LRAFB Charter School, Flight Line Academy attended the celebration. Theme was importance of trees for soil stabilization, water quality, and shade.	Upper management, Tree Committee, and base population.	Total of 50 people attended.	The presentation reflected base policy of maintaining and providing healthy, low maintenance trees in working and living areas of the base that provide aesthetics and shade, while conserving water.	Yes

SMALL MS4 ANNUAL REPORT FORM (Attach 1)

B. PUBLIC INVOLVEMENT/PARTICIPATION 2013/2014

BMP (Activity) & Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate of People Participated	Summary of Results	Effective (Yes or No)
1. Stormwater Pollution Prevention Team Meetings replaced by quarterly Cross Functional Environmental Quality Subcommittee and Environmental Management Systems meetings. 19 CES/CEIE	Quarterly meeting to brief base leadership and environmental coordinators for each unit on Environmental Quality programs status.	Progress/status on water quality training, water sampling results, and spill response is presented as well as the number of employees trained on Hazardous Waste, Spill Response, Storm Water protection and Toxic Substances.	Unit Environmental Coordinators, Base Leadership, and Asset Management Flight's Compliance Program Managers.	Approximately 50 key attendees each quarter for each meeting. Minutes are distributed to a larger audience.	Base Leadership is updated on environmental program status and helps solve any environmental issues.	Yes
2. Outside spill agencies/contractors participated in a spill response stormwater protection issue exercise at Little Rock AFB. 19 CES/CEIE	Little Rock Air Force Base hosted a Worst Case Scenario external spill response training/exercise on 23 OCT 2013. The scenario involved a release of 1,680,000 gallons of Jet A from a Bulk Fuel storage Tank.	Know procedures to follow in the event of an emergency. Consider consequences to storm drains and other drainage areas.	Spill Response Team, contractors for Bulk Fuels Storage, Services, ADEQ, Jacksonville Waste Water Utility, Contracting, the Oil Spill Removal Organization (OSRO, Waste Services Inc.), Water Fuels Maintenance Shop, Fuels Service Center, Safety, Fire Department, Readiness Flight, Base Leadership	81 personnel arrived and worked the Full Scale Exercise.	For "Lessons Learned: Better communications with the Incident Commander (IC) and Operations Section Chief are required; The One Plan needs updating; Technical expert from POL to be assigned to EOC; and Better tracking of Resources are required.	Yes
3. Present BMPs at pre-construction meetings. 19 CES/CEIE	Attend 100% of meetings.	Erosion and runoff BMPs and good housekeeping.	Contractors and in-house shops.	Average of 25 personnel in attendance.	Good relationships are established with contractors and in-house personnel, and expectations are known up front.	Yes

SMALL MS4 ANNUAL REPORT FORM (Attach 1)

C. ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE), 2013/2014

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 Presentation of Oil Handler Training. 19 CES/CEIE	Annually train every Environmental Coordinator and any employee who handles 55 gal fuel/oil or more or Hazardous Materials on regulations, spill response, and disposal procedures	No. With frequent deployments, annual training is taught monthly throughout the year and by special request	National, 40 CFR 112.7 and City of Jacksonville Ordinance 1133 Oil Prohibitions in Sewer		Employees and Unit Environmental Coordinators (UEC's) have been trained. A one-hour Oil Handler/Spill Response training session is offered monthly along with a Hazardous Waste one-hour training session	Yes	
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates			Effective (Yes or No)	
Storm Sewer System Map 19 CES/CEIE	Storm drain and utility GIS layers were developed for most of the base in 2012. New sluice gates are being installed.	No. Drains in hangars need to be inventoried. Contract in place for hanger stormwater maps.	The stormwater manager uses GIS regularly for planning and spill response. A hydraulic structure layer was created for GIS in 2012. An inventory of hangar drain pipes is still needed, and work request 758300 was submitted. Draft "Grab and Go" pamphlets for each hangar were created to provide instructions to the Facility Manager, Fire Dept., and Maintenance personnel for fire foam accidents			Yes	
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates			Effective (Yes or No)	
IDDE addressed in Environmental Management Systems (EMS) framework as aspect of LRAFB's EMS. 19 CES/CEIE	Reduced Incidents of Illegal Dumping and reduction of sewer/storm cross-connections east of flight line.	On-going	LRAFB's on-line hunter's briefings ask hunters to report any illegal dumping or littering. Once a year inspect for ECAMP, looking for illegal dumping. Sanitary sewer cross connections are addressed in projects programmed to occur from 2013 to 2020, but they depend on funding. It is estimated that 25% of repairs have occurred as of May 2014 (see Attachment C)			Yes	
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Outfalls Screened	# of Dry-Weather Flows Identified	# Of Illicit Discharges:		Effective (Yes or No)
Dry-Weather Screening of Outfalls # of Outfalls Screened <u>4</u> Total # of Outfalls <u>4</u> 19 CES/CEIE	Dry weather screening of all Outfalls: Outfalls 1-4.	Yes	Four	None	Identified*	Eliminated	Yes
					Drought conditions. No discharge occurring at any outfalls.	N/A	
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates			Effective (Yes or No)	
Identification of allowable non-stormwater discharges. 19 CES/CEIE	None—no different from those listed in the permit	Yes	Follow the list in the permit			Yes	

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

SMALL MS4 ANNUAL REPORT FORM (Attach 1)

D. CONSTRUCTION SITE RUNOFF CONTROL, 2012/2013

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/Mechanism	These standards are used in design to meet stormwater goals such as Div 1 01 57 23 Storm-water Pollution Prevention Measures	Yes	Federal (DOD adopted standards MIL-STD 3007) http://www.wbdg.org/ccb/browse_cat.php?o=29&c=4 and select Series 3-200: CIVIL/GEOTECHNICAL/LANDSCAPE ARCHITECTURE specifications that prescribe stormwater and LID specifications, and also adhering to Air Force Sustainable Design & Development Policy 31 Jul 07 and Energy Policy Act of 2005			Construction Plans are reviewed for adherence to standards.	Yes
19 CES/CEIE/Unified Facilities Criteria (DOD construction standards)							
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	Completed Annual Comprehensive Site Compliance Evaluation Report and Erosion and Sediment Control Plan for Outfalls 002 and 003.	Yes	Clean Water Act and BMP's.			Currently, developing Creek Bank Stabilization Project NE of the LRAFB runway. This project will help TSS for Outfall 4.	Yes
19 CES/CEIE							
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Complaints		Summary of Results or Activities	Effective (Yes or No)	
			Received	Followed-Up On			
Complaint Process	100%	N/A	None. All observations of deficiencies this year came from either internal/external inspections/discovery, or were relayed by peers rather than public complaint		Usually the complaints stemmed from silt fences after rain storms	Yes	
19 CES/CEIE							
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	Goal is to review all site plans	Yes	33 construction project designs were reviewed in the past year	22 plans reviewed for outdoor work (some reviewed last year)	Most of these projects have been contracted, as shown on Attach F	Yes	
19 CES/CEIE							
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	Inspect every active construction project with walk-through	Yes	40 sites under construction for the last year	All by Construction Mgmt	Weekly minimum by Construction, monthly drive by Stormwater Manager	Deficiencies given to construction inspector to remedy immediately or within maximum of a week	Yes
19 CES/CENMP							
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	No construction site not following SWPPP requirements.	Yes	0	0	N/A	Yes	
No external procedures							

*Include an attachment which identifies applicable sites within your jurisdiction for this reporting period. (Attachment F)

SMALL MS4 ANNUAL REPORT FORM (Attach 1)

E. POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT, 2013/2014

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	Designs include worksheet for pre-construction versus post-construction at least 80% removal of total suspended solids that exceed predevelopment levels.	Yes	ARR150000 Construction General Permit and Unified Facility Criteria Specifications for DOD		BMPs were enforced by construction inspectors and stormwater manager when deficiencies were noted in inspections	Yes
Remove 80% total suspended solids that exceed predevelopment levels. 19 CES/CEN and 19 CES/CEIE						
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	Protection of stormwater through maintenance of temporary erosion control devices that remain in place until 80% cover established	Yes	Single appropriate structural devices or combinations of hay bales, sodding, mats, straw wattles, hydroseeding, rock check dams and silt fences were used at 33 active construction sites		Construction Inspectors inspect at least weekly. Erosion control measures generally in place and effective through medium intensity storms. BMPs changed until effective, documented in SWPPPs	Yes
Temporary erosion control devices. 19 CES/CENMP and 19 CES/CEIE						
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	Goal is to inspect every active construction project for post-construction BMPs	Yes	All projects will have grass established to 80% before site is accepted by LRAFB	15	Post-construction BMPs were included in plans and inspections were done to ensure that cover was established to 80% before accepting work	Yes
Plan Review of FY 13/14 Projects from Jun 2012-2013						
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Site Inspections Performed		Summary of Results or Activities	Effective (Yes or No)
			# Performed	Avg. Frequency		
Site Inspection Procedures	Where erosion or runoff noted; recommendations made to constr. inspector	Yes	1,275 by Construction Mgmt	Daily or weekly (Construction Mgmt), monthly by Storm. Mgr	Deficiencies given to construction inspector to remedy immediately or within maximum of a week	Yes
19 CES/CENMP and 19 CES/CEIE						
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 19 CES/CEIE	LRAFB will not accept work that does not meet SWMP and SWPPP standards	NA	0	0	N/A	Yes
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Sites Requiring Plans/Agreements	# of Plans Developed/Agreements in Place	Summary of Results or Activities	Effective (Yes or No)
Long-Term O&M Plans/Agreements	Picks up trash on every developed portion of base once a week	Yes	One agreement for entire base	One	The base is kept litter-free	Yes
Trash Pickup and Mowing						

SMALL MS4 ANNUAL REPORT FORM (Attach 1)

F. POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS, 2013/2014

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Topic(s)	Targeted Audience	# of Employees Attended	Summary of Activity	Effective (Yes or No)
Employee Training Programs	1. To brief every new employee on environmental policy	Yes	Brief new employees on base regarding Little Rock AFB stewardship policy	All new employees	550 new employees given Joint Intro Training	Advise of environmental policy and framework with environmental coordinators	Yes
1. Joint Intro for Newcomers 2. Low Impact Devel./Green Purchasing Training	2. Training for all new credit card holders	Yes	Reg. requirements, list of sources, reduced energy/resource consumption	New credit card holders	Approximately 15 employees per month complete a computer-based training module	Encourage selection of LID/"Green" sources	Yes
List of Municipal Facilities Subject to Program					O&M Procedures Developed for Facilities (Yes or No)	# of Facility Inspections Performed	Frequencies of Such Inspections
All 24 buildings on the installation housing hazardous materials or industrial processes were subject to internal ECAMP annual inspections that were completed from 4 to 15 Apr 13. Also, an annual Comprehensive Site Evaluation inspection was completed 14 - 17 Nov 2011 of discharges associated with industrial activity and observation of sediment control and structural stormwater management control measures					Yes. See Attach E for list of buildings, materials stored in them, and processes	72 facilities for EOCAMP, 24 which house industrial processes	Annually
MS4 Maintenance	Summarize Maintenance Activities and Schedules			Summarize Activities Performed			
	Inspect inlets, sluice gates, and outfalls quarterly. Stabilize perimeter roads and bare slopes as needed.			Perform maintenance as needed for inlets, sluice gates, and outfalls. Built up approx. 2.75 miles of perimeter roads with cold-milled asphalt, which acts as a barrier to slow down runoff in some areas. Structures Shop also stabilized 2,400 ft2 of eroding slopes on eastern airfield between the active runway and assault strip.			
Disposal of Wastes	Procedures Developed (Yes or No)		Document Amounts of Wastes Properly Disposed				
	Yes		Unit area walks are conducted routinely. It is the responsibility of each unit to schedule. Trash is also picked up before mowing is accomplished by Grounds Maintenance contractor. Any materials that are recyclable are sorted and taken to the base's Recycle Center				
Road Salt	Covered (Yes or No)		Tons Used	Summarize Measures Taken to Minimize Usage			
	No. Salt is not used. "Ice Slicer" has been used on roads and sidewalks. It is kept in a covered area in the manufacturer's plastic bags		16.25 Tons of Ice Slicer was used over the winter. 4,770 gallons of Ctyotech E36 Runway Deicer.	Ice Slicer is kept away from ditches and streams. Approx. 9,594 gal of 40% propylene glycol deicer, mixed with 60% water for a total of 23,981 gal was applied to aircraft over the 2012/2013 winter.			
Pesticide & Herbicide Usage	Procedures Developed (Yes or No)		Gallons Used	Summarize Measures Taken to Minimize Usage			
	Yes. Spraying not permitted near lakes or streams, with the exception of one application to aquatic weeds along shore line of the Base Lake, and users must look for a 3-day window with no rain before application.		203 lbs and 14.5 gal of herbicides and fungicides. 7.5 gal and 134 lbs of insecticides	* System tracks pounds of active ingredients. Mixing rates vary, based on manufacturer's instructions, which are followed. Procedures listed (see left column) are followed.			
Fertilizer Usage	Procedures Developed (Yes or No)		Pounds Used	Summarize Measures Taken to Minimize Usage			
	Yes		5,900 pounds used on golf course	Follow manufacturer's instructions, check forecast for 3-day precipitation free window before application, and avoid application around ponds and drains to minimize runoff into stormwater			
Street Sweeping	Procedures Developed (Yes or No)		Document Amount of Material Collected and Properly Disposed				
	Yes		Streets are swept as required and approximately 1/2 CY of dust and debris is swept up timet. The material is stored on a flat space at the Cover Storage Area where it accumulates for 30 days. Trash and debris are picked out and recycled. Remaining material is buried on a flat space near the former Dog Kennel area, and covered with topsoil.				
Flood Management Projects	Summarize any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality						
	None. However, we acquired new floodplain maps in 2011, and initiated a watershed survey of watersheds leading to Outfall 2 and Outfall 4 to identify areas for bank						



ARKANSAS
Department of Environmental Quality

SMALL MS4 ANNUAL REPORT FORM

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT, Cont'd

stabilization improvements

SMALL MS4 ANNUAL REPORT FORM (Attach 1)

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.

None

VARIANCES GRANTED (IF ANY)

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

None

Attach 2: Table of Organization for the Little Rock Air Force Base's MS4 Storm Water Management Plan Annual Report, 28 May 2014

Minimum Control Measures	Best Management Practice	Primary POC/ Contact Information	Position Title	Implementing Agency/ Departments/Contacts	Method of Implementation Across Positions/Agencies
1. Public Outreach on Stormwater Impacts	1. Distribute educational pamphlets through Family Housing that forbid vehicle repair and restrict aquatic pesticide uses	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	Civil Engineering Squadron Installation Housing Management Element Chief, Jessica Foiles 501-987-3398	Stormwater Manager is responsible for providing pamphlets for housing welcome packets. Capital Asset Management and Privatized Contractor (Hunt Building Company, Ltd.) will include in packets
	2. Posters in key public locations	Steve Potes	SWPPP Manager	Commissary, BX, Thomas Community Center	SWPPP will purchase or print posters and get permission to put up from facility managers
	3. Earth Day Celebration	James Popham 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-3681	Natural Resources Manager	Will be different each year, but initiated by James Popham	Both the Stormwater Manager and the Natural Resources Manager will invite speakers or demonstrations from other agencies
	4. Articles published in Base paper	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	19 CES/CEIEC (to include Natural Resources manager, James Popham)	Stormwater Manager will initiate articles in Base paper on the subject of erosion and runoff control
	5. Respond to call-ins for violations	Ron Love, 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-7700	Chief, Environmental Compliance	Mr. Love will delegate response activities to stormwater entities	Stormwater Manager will determine the cause of the violation and will discuss with the person(s) responsible
	6. Arbor Day Celebration	James Popham 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-3681	Natural Resources Manager	Will be different each year, but initiated by James Popham	Different speakers are invited each year to stress the importance of trees, which include stormwater and erosion control
2. Public Involvement/ Participation	1. Cross Functional Environmental Quality and Environmental Management System Quarterly Meetings	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	Environmental Coordinators from each unit and Upper Management	Stormwater Manager contacts unit managers for a meeting. Minutes document stormwater issues and are routed through upper management
	2. Outside agencies participate in a stormwater protection issue exercise	Jeffrey Sharpmack 1389 1st Street Little Rock AFB AR 72099 501-987-7610	Readiness Manager	Readiness Flight 19 CES/CEX 1389 1st Street Little Rock AFB, AR 72099 501-987-7610	Exercises are initiated and coordinated by Readiness Flight
	3. Stormwater briefing at design and pre-con meetings	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	19 CES/CEC engineers must have approval and participation from Stormwater manager before work begins	Design engineers or construction managers invite the SWPPP Manager to brief architects or construction workers on stormwater controls
	4. Earth Day Celebration	James Popham 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-3681	Natural Resources Manager	James Popham 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-3681	The Stormwater manager participates in recruiting stormwater demonstrations from other agencies.

Attach 2: Table of Organization for the Little Rock Air Force Base's MS4 Storm Water Management Plan Annual Report, 28 May 2014

Minimum Control Measures	Best Management Practice	Primary POC/ Contact Information	Position Title	Implementing Agency/ Departments/Contacts	Method of Implementation Across Positions/Agencies
	5. Drain labeling	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	Steve Potes, SWPPP Manager 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	The Stormwater Manager recruits base personnel to assist with labeling drains to discourage dumping
3. Illicit Discharge Detection and Elimination	1. Improvements to stormwater drain maps	Steve Potes 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	Steve Potes, SWPPP Manager 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099	The Stormwater Manager will gather better data collected under other contracts, and contract for delineation of subbasins flowing on and off the base
	2. Programming to repair collapsed piping	Dwight Henderson 19 CES/CEIOU 536 Thomas Ave Little Rock AFB AR 72099 501-987-7703	Foreman, Water & Fuel System Utilities	Dwight Henderson, Utility Manager 19 CES/CEIOU 536 Thomas Ave Little Rock AFB AR 72099 501-987-7703	Various departments notify Utility Manager when collapsed piping/drains are observed. If the work hours are too great, the fixes are contracted out as funds become available
	3. Separating combined sanitary and storm sewers	Dwight Henderson 19 CES/CEIOU 501-987-7703	Foreman, Water & Fuel System Utilities	Dwight Henderson, Utility Manager 19 CES/CEIOU 536 Thomas Ave Little Rock AFB AR 72099	A camera study of sewer lines revealed where sanitary and storm sewer lines are combined. Projects to separate and replace piping are programmed for 2014 through 2019 but depend on funding
	4. Spill response procedures and illegal dumping awareness	Steve Potes (Spill Response Coordinator) 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809 Lynn Shaw (Illegal dumping) 19 CES/CEIEC 534 Thomas Ave Little Rock AFB AR 72099 501-987-8135	Steve Potes, Spill Response Team Coordinator, Lynn Shaw, Environmental Management Systems Coordinator	Both in 19 Civil Engineering Installation Environmental Compliance	Steve Potes is the spill Response Team Coordinator, responsible for maintaining the "One Plan" Integrated Contingency Plan to establish notifications, procedures, and reporting of a spill. The plan will be updated in FY10. Training provided by Defense Energy Support Center, scheduled for 8 Dec 09 this year. Lynn Shaw is the Environmental Management Systems Coordinator, responsible for raising awareness regarding illegal dumping
	5. "First responders" spill response	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Stormwater/ Spill Response, and Tank Manager	Steve Potes, Spill Response Mgr 19 CES/CEIEC, 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Arranges for annual Oil Handler/Spill Response/Stormwater Training that is offered monthly along with Hazardous Waste Annual Training. By arrangement, training is presented outside of normal working hours for shift workers
	6. Five automated sluice gates prevent spills from leaving Base	Don Smart 19 CES/CEF Little Rock AFB AR 72099 911 for spill, 501-987-3656 for non- emergency	Fire Chief	Fire Department 239 Ave A West Little Rock AFB AR 72099	Personnel are taught to call 911 for spills in "One Plan" Contingency Plan. The Fire Department closes sluice gates remotely
	7. Foam for aircraft fires disposed of properly	Don Smart, 19 CES/CEF Little Rock AFB AR 72099 911 for spill, 501-987-3656 for non- emergency	Fire Chief	Fire Department 239 Ave A West Little Rock AFB AR 72099	Foam used to put out aircraft fires is not allowed to run into storm drains. For maintenance related and accidental releases, a draft Operating Instruction has been added to the IGP SWPPP. Also, foam procedures have been addressed in the draft One Plan (Integrated Contingency Plan) for spill response

Attach 2: Table of Organization for the Little Rock Air Force Base's MS4 Storm Water Management Plan Annual Report, 28 May 2014

Minimum Control Measures	Best Management Practice	Primary POC/Contact Information	Position Title	Implementing Agency/ Departments/Contacts	Method of Implementation Across Positions/Agencies
4. Construction Site Stormwater Runoff Control	1. Regulation to remove 80% total suspended solids from stormwater in Unified Facilities Guide Specifications	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	SWPPP Manager/ Construction Management Team Lead	Dianne Priddy, Construction Management Team Lead 528 Thomas Ave Little Rock AFB AR 72099 501-987-7679	Construction designs and work orders are approved in advance by SWPPP Manager. Construction inspectors ensure the BMPs are implemented. The SWPPP Manager does occasional inspections
	2. Stormwater Manager briefs at pre-construction meetings	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	Dianne Priddy, Construction Management Team Lead. 528 Thomas Ave Little Rock AFB AR 72099 501-987-7679	Construction Management arranges kick-off meetings. The SWPPP Manager gives presentation on stormwater controls
	3. "No Tolerance" policy for track-out and sediment leaving construction site	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	Dianne Priddy, Construction Management Team Lead. 528 Thomas Ave Little Rock AFB AR 72099 501-987-7679	Construction inspectors and SWPPP Manager enforce
	4. Base personnel report violations of stormwater policy	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	Steve Potes, SWPPP Manager 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Personnel assist the SWPPP manager by calling in stormwater violations they have observed. The SWPPP inspects the violation and confronts the violator if the cause can be determined
	5. "Green" construction practices are employed for all new construction and for contracted work requests	Mike Boyle, Eng. Flight Chief 19 CES/CEN 528 Thomas Ave Little Rock AFB AR 72099 501- 987-7672	Civil Engineering Flight Chief	Mike Boyle, Eng. Flight Chief 19 CES/CEN 528 Thomas Ave Little Rock AFB AR 72099 501-987-7672	Contracted work requests and new construction programming follow the Energy Policy Act of 2005 requirement that 2% of construction materials costs be for "green" material purchases to qualify for funding
	6. Non-structural BMPS include protection of waterways through floodplain and wetland buffers	James Popham 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-3681	Natural Resources Manager	James Popham 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-3681	Development is usually prohibited within a 50-ft buffer around a 100-year floodplain, and a 100-ft buffer around wetlands (with the exception of one wetland located in the northeast area of Base)
5. Post Construction Stormwater Management in New Development and Redevelopment	1. BMPs remain in place until permanent erosion control measures are installed	Dianne Priddy, Const. Mgmt Team Lead, 19 CES/CENMP 528 Thomas Ave Little Rock AFB AR 72099 501-987-7679	Construction Management Team Lead	Dianne Priddy, Construction Management Team Lead. Coordinated with Steve Potes, Stormwater Manager	BMPs remain in place, such as silt fences until cover is 80% restored. Delegated to Construction Management inspectors
	2. Limestone added to watersheds where annual outfall samples indicate acidic conditions	Steve Potes 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Storm Water Pollution Prevention Program (SWPPP) Manager	Steve Potes, SWPPP Manager 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-6809	Watersheds and areas as large as 20 acres are treated with addition of limestone if annual samples indicate pH < 6.0
	3. Roads stabilized with cold-milled asphalt and grading of steep slopes	Russell Henry 19 CES/CEOHP 534 Thomas Ave Little Rock AFB AR 72099 501-987-2656	Roads/Pavement and Repair Manager	Russell Henry 19 CES/CEOHP 534 Thomas Ave Little Rock AFB AR 72099 501-987-2656	The perimeter road is maintained with applications of cold-milled asphalt and rip-rap as needed before and after construction projects. Steep road slopes are graded to prevent erosion and runoff

Attach 2: Table of Organization for the Little Rock Air Force Base's MS4 Storm Water Management Plan Annual Report, 28 May 2014

Minimum Control Measures	Best Management Practice	Primary POC/Contact Information	Position Title	Implementing Agency/ Departments/Contacts	Method of Implementation Across Positions/Agencies
6. Pollution Prevention/ Good Housekeeping for Municipal Operations	1. Street/parking lot sweeping conducted as weekly recurring work	Russell Henry 19 CES/CEOHP 534 Thomas Ave Little Rock AFB AR 72099 501-987-2656	Roads/Pavement and Repair Manager	Russell Henry 19 CES/CEOHP 534 Thomas Ave Little Rock AFB AR 72099 501-987-2656	Sweeping is programmed and implemented through the O&M budget
	2. Stormwater drainage lines cleaned annually or more often if needed	Dwight Henderson 19 CES/CEIOU 536 Thomas Ave Little Rock AFB AR 72099 501-987-7703	Foreman, Water & Fuel System Utilities	Dwight Henderson 19 CES/CEIOU 536 Thomas Ave Little Rock AFB AR 72099 501-987-7703	Drainage line cleaning occurs on an as-needed basis. It is programmed as recurring work
	3. The Base perimeter road and steep roads are improved to prevent erosion	Russell Henry 19 CES/CEOHP 534 Thomas Ave Little Rock AFB AR 72099 501-987-2656	Roads/Pavement and Repair Manager	Russell Henry 19 CES/CEOHP 534 Thomas Ave Little Rock AFB AR 72099 501-987-2656	Improvements are made to roads using cold milled asphalt and rip-rap to reduce erosion on an as-needed basis
	4. Cleaning streambeds and drop inlets	Russell Henry 19 CES/CEOHP 534 Thomas Ave Little Rock AFB AR 72099 501-987-2656	Roads/Pavement and Repair Manager	Russell Henry 19 CES/CEOHP 534 Thomas Ave Little Rock AFB AR 72099 501-987-2656	Streambeds and drop inlets are cleaned on a recurring basis
	5. Litter collection	Stan Hunter 19 CES/CEOES 536 Thomas Ave Little Rock AFB AR 72099 501-987-5540	Grounds Maintenance Manager	Stan Hunter 19 CES/CEOES 536 Thomas Ave Little Rock AFB AR 72099 501-987-5540	Grounds Maintenance contracts are in effect to pick up litter daily before mowing grass on a rotating schedule
	6. Tree Committee meets annually	James Popham 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-3681	Natural Resources Manager	James Popham 19 CES/CEIEC 528 Thomas Ave Little Rock AFB AR 72099 501-987-3681	The Natural Resources Manager meets with Flight Chiefs to make decisions on where trees will be planted. Erosion and soil stabilization are discussed

Attach 3: Schedules for Elimination of Illicit Connections for MS4 2013/2014 Annual Report

Projects to address Inflow and Infiltration are:

Year	Project #	Description	Work Status
2013	WW-02/W-01	Replace Mains/Manholes/Laterals in Military Fam. Housing	Completed
2018	WW-01	Replace Mains/Manholes/Laterals around Bldgs 270-290	Programmed
2020	WW-04	Replace Mains/Manholes/Laterals around Bldgs 210-350	Programmed
2014	S-2	Repair MFH Sewer Mains/Manholes	Construction
2016	S-6	Repair Sewer Mains I&I, Idaho Cir, PA Dr., DE Cir, Ct Dr., and FL Ave	Design
2018	S-4	Repair Sewer Mains MO Cir, MN Cir, MS Lp	Design
2015	WW-03	Replace Mains/Manholes/Laterals between MFH and the Main Trunk Line	Design
2014	WW-05/07	Replace Mains/Manholes/Laterals around Bldgs 120-210, 775-1260	Advertised
2017	WW-08	Replace Mains/Manholes/Laterals around Bldgs 790-1020	Design
2016	S-5	Replace Mains, Manholes, Laterals long OH Cir, OR Ave, NV Ave, MT Cir, TN Dr., NE Cir, & PA Dr	Design
2016	WW-09	Replace Mains/Manholes/Laterals around Bldgs 1020-1030	Design
2016	WW-10	Replace Mains/Manholes/Laterals around Bldgs 1390-1430	Design
2019	WW-11	Replace Lift Station Pumps Base Wide	Programmed
2017	S-3	Repair MFH Sewer/Domestic Water Mains	Design

Construction depends on funding.

Attach 4: LRAFB Construction from May 2013 through May 2014

Project Nbr	Project Title	Facility Number	Award Date	Est Cns Complet
NKAK111089A	EMERGENCY PERMANENT REPAIR HANGAR 245	00245	11-Jul-12	25-Apr-14
NKAK133004	PEST MANAGEMENT FACILITY	MULTI	14-Aug-12	16-Jun-14
NKAK121066	REPAIR/REMEDiate CORROSION CONTROL FAC 282	00282	20-Sep-12	07-Apr-14
NKAK051041	REPAIR MUNITIONS IGLOOS	MULTI	25-Sep-12	10-Feb-14
NKAK091029	DEMO/CONSOL FAMILY SUPPORT SERVICES	MULTI	26-Sep-12	01-Jan-15
NKAK101070	DESC REPAIR REPLACE POL FUEL PIPELINES	MULTI	28-Sep-12	09-Dec-13
NKAK101118	CONSOL/DEMO: Rpr Bldg 864/Demo B960	MULTI	30-Sep-12	09-Jun-13
NKAK103006	C-130J FUEL SYSTEMS MAINTENANCE HANGAR	MULTI	25-Jun-13	19-Nov-14
NKAK081013	RPR (SUS) NG MAINS/LATERALS (NG-01)	82136	29-Jul-13	21-Jul-14
NKAK131052	SUSTAIN/REPAIR APRONS AND TAXIWAYS	MULTI	13-Aug-13	17-Oct-14
NKAK101041	REPAIR UPGRADE FIRE TRAINING FACILITY	00155	20-Aug-13	11-Sep-14
NKAK151019	ADD/ALTER ED CENTER RAIL/SPRINKLER/ROOM	01490	12-Sep-13	07-Jun-14
NKAK011067	REPAIR (SUS) ALTITUDE CHAMBER HVAC B1240	01240	12-Sep-13	09-Jun-14
NKAK101052	REPAIR (SUS) TLF ROOF B952	00952	16-Sep-13	29-May-14
NKAK101017	REPAIR ALTITUDE CHAMBER INTERIOR/ROOF	01240	18-Sep-13	14-Mar-14
NKAK121084	CONSTRUCT MWD TRAINING AREA FENCE	87053	24-Sep-13	15-Apr-14
NKAK1210292	REPAIR/REPLACE FSK ALARM TRANSCEIVERS (PH 3)	MULTI	24-Sep-13	09-Aug-14
NKAK001092	REPAIR AREA LIGHTS FAMCAMP	81080	25-Sep-13	11-Jul-14
NKAK141057	SUSTAIN REPAIR REPLACE AHU 48AS/GOLD AMU	00234	26-Sep-13	14-Mar-14
NKAK141058	SUSTAIN REPAIR HVAC AGE FACILITY	00256	26-Sep-13	02-Aug-14
NKAK141030	ATFP REPAIR REPLACE POPUP BARRIERS / IMPROVE BASE PERIMETER	MULTI	26-Sep-13	31-Oct-14
NKAK101012	REPAIR MFH SEWER MAINS/MANHOLES (S2)	83066	26-Sep-13	22-Oct-14
NKAK991018	SUSTAIN REPAIR VQ 1020 HVAC	01020	26-Sep-13	16-Dec-14
NKAK151018	REPAIR REPLACE AG ELECT SERVICE MULT FAC	81074	26-Sep-13	03-Aug-14
NKAK131053	REPAIR/CONSTRUCT SLUICE GATES RETENTION VAULTS	87016	26-Sep-13	05-Aug-14
NKAK141024	REPAIR REPLACE FIRE TRAINING FAC 156	00156	26-Sep-13	25-Mar-14
NKAK121030	RPR COMM SQ#ADDN FOR POST OFFICE, FAC 988	MULTI	27-Sep-13	29-Jan-15
NKAK031060	MAINTAIN AORI-AIRFIELD TERPS ZONES (TREES)	11066	27-Sep-13	07-Nov-14
NKAK141005	REPAIR FITNESS CENTER INTERIOR WALL DAMAGE B827	00827	28-Sep-13	25-Oct-14
NKAK151025	CONSTRUCT BLASTER EQUIP OVERHANG HANGAR 282	00282	30-Sep-13	07-Jun-14
NKAK131009	ADD/ALTER RAZORBACK INN ENTRANCE	01024	30-Sep-13	17-Jun-14
NKAK091068B	CONSTRUCT POOL ENTRANCE ENCLOSURE/STORAGE	00874	30-Sep-13	12-Sep-14
NKAK091068A	REPAIR BASE POOL/BATHOUSE	00874	30-Sep-13	12-Sep-14
NKAK141056	SUSTAIN REPAIR REPLACE BOILER/COILS AIRMAN'S MINISTRY	00864	30-Sep-13	08-Jul-14
NKAK151011	SUSTAIN/REPAIR APRONS/TAXIWAYS IDIQ	MULTI	30-Sep-13	17-Oct-14
NKAK111054	CONSTRUCT ACCESSIBLE PLAYGROUND AT CDC	75773	30-Sep-13	11-Aug-14
NKAK1110541	CONSTRUCT ADA COMMUNITY PARK	01985	30-Sep-13	11-Aug-14
NKAK121082	REPAIR BASE SIDEWALKS HANDICAP ACCESS	85116	30-Sep-13	26-Jun-14
NKAK131063	REPAIR REPLACE PLAYGROUNG EQUIPMENT CDC	01257	30-Sep-13	13-Jan-14
NKAK113003	C130J PROPELLER REPAIR TRAINING FACILITY	01222	21-Feb-14	20-Feb-15

ATTACH 5: Hazardous Waste Processes in Facilities

Table A1-3: Little Rock AFB Shops that Generate Hazardous Waste				
Shop Code	Organization	Bldg. No.	Shop Description	Process Code Description
LRK014	19 MSG/CES CE Paint Shop	536	The Paint Shop is responsible for the general painting of Base facilities after completion of repairs or renovations.	Painting of base facilities
LRK025	19 MDG/ADMS Dental Clinic	1090	Provides dental services to LRAFB.	Dental
LRK031	19 MXG/CMS PMEL	344	Calibrates, maintains, and repairs electronic test equipment such as oxygen sensors used on the C-130 aircraft.	Generic Aircraft Operations; Chemical Cleaning (Hand)
LRK032	19 MXG/EMS Aircraft Metals Technology	246	Machines and welds metal parts in support of C-130 aircraft and AGE maintenance repairs.	Generic Metals Treatment, Welding; Chemical Cleaning, (Hand)
LRK033	19 MXG/EMS Corrosion Control	282	Includes corrosion control shop and sheet metal shop. Strips, primes, and coats the C-130 aircraft, aircraft parts, and AGE equipment.	Aircraft Operations, Generic Painting Support Equipment; Cleaning, Chemical, Hand
LRK034	19 MXG/EMS Sheet Metal	250	Repairs metal components of the C-130 aircraft including cutting, drilling, molding, bending, and assembling.	Sheet Metal Industrial Processes, Chemical Cleaning (Hand)
LRK036	19 OG/OSL Aircrew Flight Equipment	340	Inspects, repairs, and maintains C-130 aircraft survival equipment.	Aircrew Flight Equipment; Chemical Cleaning (Hand)
LRK038	19 MXG/EMS Aerospace Ground Equipment	256	Repairs, maintains, and provides administrative control of all ground equipment used in direct support of C-130.	Preventive Maintenance Support Equipment; Painting Motor Vehicles, Generic Painting, Chemical Cleaning (Hand)
LRK039	19 MXG/EMS Refurbishment Shop	255	Repairs and restores the interiors of C-130 aircraft. Processes approximately one aircraft every 27 days. Strips the interior of the aircraft to bare metal, necessary repairs are made, it is repainted, and equipment is replaced.	Generic Aircraft Operations Generic Painting, Chemical Cleaning (Tank)
LRK040	19 MXG/EMS Isochoric Phase Maintenance Dock	250	Conducts all regular inspections of the C-130 based on flying hours and performs scheduled maintenance and repairs.	Generic Aircraft Operations Generic Painting, Chemical Cleaning (Hand)
LRK041	19 MXG/EMS Wheel and Tire	250	Maintains the nose and landing gear tires and wheels on the C-130 aircraft.	Generic Aircraft Operations Chemical Cleaning (Tank)
LRK042	19 MXG/EMS Engine Regional Repair Center (ERRC)	356	Provides higher-level maintenance for the T-56 engine on the C-130 aircraft. Rebuilds and overhauls approximately 120 C-130 aircrafts per year.	Aircraft Operations Generic; AD, Engine/Engine Components; Repair/Rework/Machining Engine/Engine Components; Chemical Cleaning (Hand)
LRK046	19 MXG/CMS Fuel Systems	280	Maintains and repairs internal wing fuel tanks and external under wing fuel tanks for the C-130.	Aircraft fuel tank repair and component replacement
LRK047	19 MXG/CMS Hydraulics	224	Maintains, replaces, repairs, and tests all hydraulic components on the C-130.	Aircraft Operations Generic Chemical Cleaning (Tank)

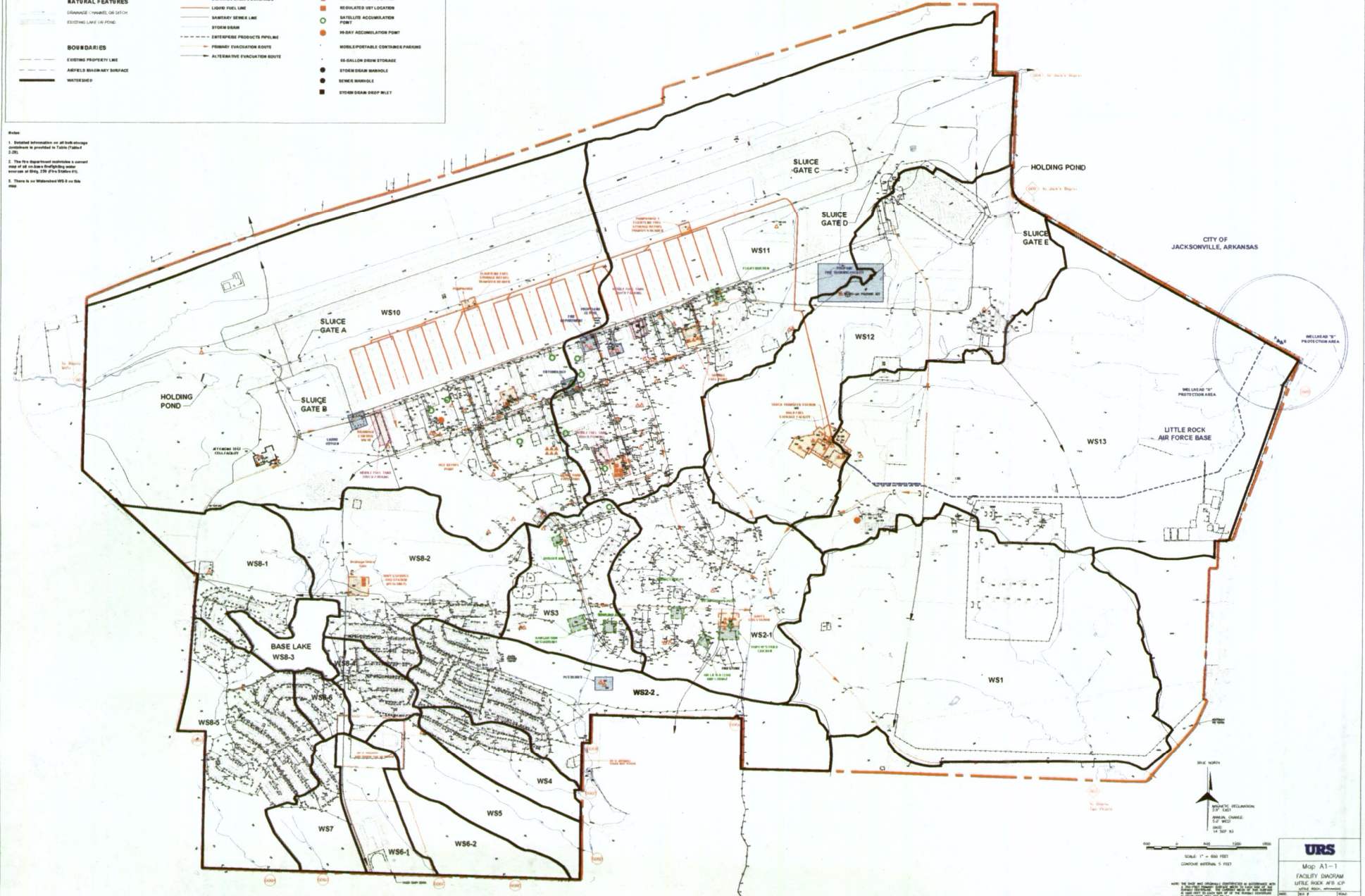
Table A1-3: Little Rock AFB Shops that Generate Hazardous Waste				
Shop Code	Organization	Bldg. No.	Shop Description	Process Code Description
LRK053	314 MXG/AMXS CTK	234	Maintains tools, test kits, and bench stock to supply and support flightline maintenance for C-130.	Flightline Operations Generic Painting Chemical Cleaning (Hand)
LRK062	19 SFS/S4A Security Forces Armory	480	The Security Forces Armory stores weapons for daily check out to personnel to perform Law Enforcement and Security operations.	Firearms preventative maintenance
LRK064	19 SFS/S4C Combat Arms (Firing Range)	1393	The Security Forces Combat Arms is the base firing range where personnel fire weapons for qualification purposes.	Cleaning of firearms
LRK068	19 MSG/LRS Mobility Bag Section	430	The Mobility Bag Section is responsible for the storage and issue of specialized gear to deploying personnel.	Disposal of spent and expired personnel chemical warfare mask filters.
LRK070	19 MSG/CEAN HAZMO (Hazardous Materials Office)	1570	The Hazardous Material Office acts as the liaison between hazardous waste generators and DRMO.	Disposal of broken mercury lamps and aerosol cans.
LRK091	19 OG/OSL Aircrew Flight Equipment Black	234	Inspects, repairs, and maintains C-130 aircraft flight crew equipment.	Repair or disposal of unserviceable or expired flight crew equipment
LRK099	189 OG/DOL Survival Equipment	207	The Survival Equipment shop inspects, repairs, stores, and issues C-130 flight crew survival equipment.	Repair or disposal of unserviceable or expired flight crew survival equipment
LRK100	189 Sortie Support CTK	207	Maintains tools, test kits, and bench stock to supply and support flightline maintenance for C-130.	Flightline Operations Generic Painting Chemical Cleaning (Hand)
LRK122	189 MXG/MXMCF Fuel Shop	207	The Fuel Shop is responsible for maintaining and repairing internal wing fuel tanks and external under wing fuel tanks for assigned C-130 aircraft.	Aircraft fuel tank repair and component replacement
LRK124	189 MXG/MXMFS Aircraft Structural Maintenance Shop	205/207	Responsible for machining parts and making structural repairs on 11 ANG C-130 aircrafts. Also priming and coating of C-130 aircraft parts.	Aircraft Operations Generic Repair/Rework/Machining, Avionics, Painting WS/WS Components; Painting, Avionics; Cleaning, Chemical Hand
LRK131	189 MXG/MXMP Propulsion Jet Engine Maintenance Shop	140	Performs scheduled maintenance and major repairs to approximately forty-eight C-130 aircraft engines per year.	AD, Preventive Maintenance, Repair/ Rework Machining Engine/Engine Components; Cleaning, Chemical, Tank
LRK187	189 MSG/SPTC Security Forces	139	The Security Forces stores weapons for check out to personnel to perform Law Enforcement, Security operations, and Qualifications.	Weapons preventative maintenance
LRK299	19 MXG/AMXS CTK	276	Maintains tools, test kits, and bench stock to supply and support flightline maintenance for the C-130 aircraft.	Flightline Operations Painting, Generic Cleaning, Chemical, Hand
None	Hazardous Waste Central Accumulation Sites	281/1582	The Hazardous Waste Central Accumulation Sites are the identified 90-day storage locations for hazardous materials.	90 day storage of hazardous waste generated throughout LRAFB

LEGEND

AIRFIELD PAVEMENTS	INTERMITTENT SURFACE STREAMS	WORK FUEL TANKER TRUCK PARKING
EXISTING TO BE RETAINED	DRAINAGE CHANNELS	TRUCKS & FUEL TRANSFER STATIONS
STRUCTURES	HAZARDOUS MATERIALS EXPOSURE AREAS	AFV'S LOCATIONS
EXISTING TO REMAIN	PERMITTED OUTFALLS ASSOCIATED WITH INDUSTRIAL ACTIVITIES	NEW STORAGE SITE LOCATIONS
ROADS, PARKING, & RAILROADS	NON-REGULATED OUTFALLS (SEE INDUSTRIAL ACTIVITIES)	MILE BOUNDARY
PAVED SURFACE	DRAINAGE CANAL DESIGNATION	WELLHEAD PROTECTION AREA (A) MILE RADII
EXISTING ASPHALT ROAD	DRAINAGE EXIST. DRAINAGE	NON-REGULATED VST LOCATION
UNPAVED IMPROVED SURFACE	LIQUID FUEL LINE	REGULATED VST LOCATION
NATURAL FEATURES	SANITARY SEWER LINE	SATELLITE ACCUMULATION POINT
DRAINAGE CHANNEL OR CATCH	STORM DRAIN	HEAVY ACCUMULATION POINT
EXISTING LAKE OR POND	ENTERPRISE PRODUCTS PIPELINE	MOBILE/PORTABLE CONTAINER PARKING
BOUNDARIES	PRIMARY EVACUATION ROUTE	55-GALLON DRUM STORAGE
EXISTING PROPERTY LINE	ALTERNATIVE EVACUATION ROUTE	STORM DRAIN MANHOLE
AIRFIELD BOUNDARY SURFACE		SEWER MANHOLE
WATERSHED		STORM DRAIN DROP INLET

Notes:

1. Detailed information on all tank storage is provided in Table (Table 2.2B).
2. The City Department assumes a correct level of all existing topography unless otherwise noted at Sheet 239 of the Station 110.
3. There is no Watershed WS 8 on this map.



SCALE: 1" = 500 FEET
 GRAPHIC SCALE: 0 500 1000 1500
 CONTAINING: 5 FEET

UTRS
 Map A1-1
 FACILITY DIAGRAM
 LITTLE ROCK AIR FORCE BASE
 10/10/03

UTRS
 Map A1-1
 FACILITY DIAGRAM
 LITTLE ROCK AIR FORCE BASE
 10/10/03

19TH CIVIL ENGINEER SQUADRON
528 THOMAS AVENUE
LITTLE ROCK AFB AR 72099

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Water Division - General Permits

Arkansas Department of Environmental Quality (ADEQ)

5301 Northshore Dr.

North Little Rock, AR 72118-5317