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WATER PROTECTION PROGRAM

**Storm Water Management Plan**  
**For**  
**Newton County**



**Newton County**  
**Storm Water Management Plan**

**TABLE OF CONTENTS**



<b>Section.....</b>	<b>Page #</b>
<b>Insert 1 - Form K – Application for Individual Small MS4 General Permit</b>	
<b>Insert 2 – Form M – Application for Storm Water Permit</b>	
<b>Section 1 – Background on EPA Phase II.....</b>	<b>1</b>
<b>Section 2 – Background on Newton County .....</b>	<b>2</b>
<b>Section 3 – Background on Newton County Watersheds .....</b>	<b>3-4</b>
<b>Section 4 – Storm Water Management Program and Plan.....</b>	<b>5-16</b>
<b>Appendix A: Best Management Practices Summary</b>	
<b>Attachment 1: Major Watersheds – Unanexed Urbanized Areas – Newton County</b>	
<b>Attachment 2: MS4 Outfalls – Newton County</b>	
<b>Attachment 3: Outfall List</b>	
<b>Attachment 4: City of Joplin Named Streams</b>	
<b>Attachment 5: City of Joplin Outflows</b>	

# Storm Water Management Plan-

## Section 1 – Background on EPA Phase II

The purpose of this Storm Water Management Plan (SWMP) is to provide Newton County with a means for addressing issues pertaining to current and future water resources for their Municipal Separate Storm Sewer System (MS4) as a part of EPA's Phase II Storm Water Program. As documented by the EPA,

“Phase I of the U.S. Environmental Protection Agency's (EPA) stormwater program was promulgated in 1990 under the CWA. Phase I relies on National Pollutant Discharge Elimination System (NPDES) permit coverage to address stormwater runoff from:

- (1) “medium” and “large” municipal separate storm sewer systems (MS4s) generally serving populations of 100,000 or greater,
- (2) construction activity disturbing 5 acres of land or greater, and
- (3) ten categories of industrial activity.”

The EPA issued in 2003, the Stormwater Phase II Final Rule. According to the EPA, “The Stormwater Phase II Final Rule is the next step in EPA's effort to preserve, protect, and improve the Nation's water resources from polluted stormwater runoff. The Phase II program expands the Phase I program by requiring additional operators of MS4s in urbanized areas and operators of small construction sites, through the use of NPDES permits, to implement programs and practices to control polluted stormwater runoff.”

Missouri Department of Natural Resources (MDNR) is the organization in Missouri that enforces the Phase II program. Part of the program involves development of an Storm Water Management Plan (SWMP). This plan's purpose is to demonstrate the County's ability to reduce the pollutants to the Maximum Extent Practicable. In order to meet the MEP requirement, the County will be required to meet six Minimum Control Measures (MCM's) and identify under each MCM their selection of Best Management Practices (BMP's).



## Section 2 – Background on Newton County

Newton County is located in the south west corner of the state. The population was approximately 54,000 in 2004. The county was organized in 1838 and named for John Newton, hero of the Revolutionary War. Its county seat is Neosho. Adjacent counties include Jasper, Lawrence, Barry, McDonald, Ottawa (Oklahoma), and Cherokee (Kansas). Newton County has two major urbanized areas, the southern portion of the City of Joplin, and the City of Neosho.

According to the U.S. Census Bureau, the county has a total area of 627 square miles, of which, 626 square miles of it is land and 0.2 square miles of it (0.04%) is water. Total stream area is 361 acres with lengths of 70 miles.





## **Section 3 – Background on Newton County Watersheds.**

### **3.1 Shoal Creek Watershed**

Shoals Creek Watershed is the main watershed in Newton County. The headwaters of Shoal Creek Watershed is located in Barry County and drains west into Newton County. According to a Fact Sheet by MDNR, dated 5/2000, “The water shed is used for livestock, wildlife, aquatic life, and industrial processes. The creek provides public drinking water for over 56,000 people in the cities of Neosho and Joplin.”

The watershed is approximately 251,843 acres.

Portions of Shoal Creek are currently on the MDNR 303(d) list or the impaired water list due to fecal bacteria levels. It is anticipated that the cause of the high fecal bacteria is from poultry and livestock farms.

### **3.2 Lost Creek Watershed**

The headwaters of pper Lost Creek Watershed is located in Newton County and drains west into Ottawa County, Oklahoma. 65% of the land is used for Grassland and Grazing purposes.

The watershed is approximately 96,905 acres.

### **3.3 Center Creek Watershed**

The headwaters of Center Creek Watershed is located in Lawrence County and drains west through Newton County into Jasper County. According to a fact sheet by MDNR, dated 10/2006, “The Beneficial uses of Center Creek are Livestock and Wildlife Watering, Protection of Aquatic Life (Warm-Water Fishery), Human Health Protection (Fish Consumption), Cool-Water Fishery, Whole Body Contact Recreation, Secondary Contact Recreation, Irrigation, and Industrial.”

The watershed is approximately 192,047 acres.

Portions of Center Creek are currently on the MDNR 303(d) list or the impaired water list due to fecal bacterial levels.

### **3.4 Clear Creek Watershed**

The headwater of Clear Creek Watershed is located in Barry County and drains west through Lawrence County into Newton County. According to a fact sheet by MDNR, dated 8/2004, “The Beneficial uses of Clear Creek are Livestock and Wildlife Watering, Protection of Warm Water Aquatic Life, and Protection of Human Health associated with Fish Consumption.”

The watershed is approximately 47,796 acres.

Portions of Center Creek are currently on the MDNR 303(d) list or the impaired water list due to fecal bacterial levels, dissolved oxygen levels, and nutrient levels. It is anticipated that the cause of the dissolved oxygen levels, and nutrient levels are due to recurring mechanical problems at The Monett Wastewater Treatment Plant (WWTP).



### 3.5 Turkey Creek Watershed

The headwater of Turkey Creek Watershed is located in Newton County and drains west through Jasper County and into Cherokee County, Kansas. Turkey Creek drains the northern portion of the City of Joplin, it is approximately 67 percent crop and pastureland, 14 percent forested land and 17 percent urban land. Three percent is open water.

The watershed is approximately 61,820 acres.

### 3.6 Upper Five Mile Creek Watershed

The headwater of Upper Five Mile Creek Watershed is located in Newton County and drains west into Cherokee County, Kansas.

The watershed is approximately 38,206 acres.

### 3.7 Upper Buffalo Creek Watershed

The headwater of Upper Buffalo Creek Watershed is located in Newton County and drains southwest into McDonald County.

The watershed is approximately 72,462 acres.

### 3.8 Upper Indian Creek Watershed

The headwater of Upper Indian Creek Watershed is located in Newton County and drains southwest into McDonald County.

The watershed is approximately 128,252 acres.

Portions of Upper Indian Creek are currently on the MDNR 303(d) list or the impaired water list due to fecal bacterial levels.

## Section 4 – STORM WATER MANAGEMENT PLAN

Permit Number: \_\_\_\_\_

Permitte Name: Newton County, Missouri  
Mailing Address: 101 South Wood Street, Neosho, MO 64850  
Ms4 System Location: Newton County, Missouri  
Region: Southwest Missouri  
Counties: Jasper County and Newton County  
Primary Contact: Gary Roark - Emergency Management Director  
Phone: 417-451-4357



There are no major receiving waters within the permitted area.

### MCM #1: Public Education and Outreach on Storm Water Impacts

#### 4.2.1.1 Permit Requirements

Newton County will implement a public education program to distribute educational materials to the county in conjunction with the City of Joplin and conduct outreach activities about the impacts of storm water discharges on water bodies and steps the public can take to reduce pollutants in storm water runoff. As part of the SWMP, the public education and outreach program will disseminate brochures, post information on the County's web site, partner with the local nature center and stream teams, maintain a library at the Newton County EOC, have a presence at local community events, speak to school groups, insert storm water language into press releases and media venues, and more.

##### 4.2.1.1.1 Target Pollutants Sources

Newton County will target the following pollutant sources:

- Construction activities (sediment, construction chemicals and debris, solid and sanitary wastes)
- Over application of fertilizer, herbicides, pesticides
- Improper disposal of waste oil, grease, and gasoline disposal
- Trash, debris, and illegal dumping
- Over application of salt and sand during snow removal
- Failing septic systems
- Stream bank erosion

##### 4.2.1.1.2 Significant Storm Water Impact Target Audiences

- Citizens (Homeowners/Landlords)
- Developers, Builders, Contractors

- Business Owners
- Municipal Operations
- Schools, large to medium sized Industries



**4.2.1.1.3 Individuals and Households**

Newton County plans to inform individuals and households regarding steps they can take to reduce storm water pollution by

- Posting information on website and at community events
- Distributing BMP information at local nature center
- Maintaining a library at the Newton County EOC.
- Distributing brochures detailing BMPs such as lawn and garden activities, rain barrels, hazardous waste disposal, trash management, septic system controls, illicit discharge detection and elimination, and others.

**4.2.1.1.3 Individuals and Households**

Newton County plans to inform individuals and households regarding steps they can take to reduce storm water pollution by

- Posting information on website and at community events
- Distributing BMP information at county fair
- Maintaining a library at Newston County EOC
- Distributing brochures detailing BMPs such as lawn and garden activities, rain barrels, hazardous waste disposal, trash management, septic system controls, illicit discharge detection and elimination, and others
- Partnering with the the Wildcat Glades Audubon Center to distribute BMP information

**4.2.1.1.4 Individual and Groups Involvement**

Newton County plans to inform individuals and groups on how to become involved in the SWMP by partnering with the, Tri-State Water Resource Coalition, Shoal Creek Watershed Partnership, Spring River Watershed Coalition, the Newton-Jasper County Environmental Task Force. We plan to work very closely with the Wildcat Glades Audubon Center that currently has a very active program of clean water education and does many projects to improve the quality of the water in the Shoal Creek Watershed

**4.2.1.1.5 Outreach Strategy**

The mechanisms to reach the target audiences include printed brochures, address storm water language in news releases. Although difficult to quantify, our goal will be to reach a minimum of seventy five percent (75%) of the residents of Newton County during the permit term.

**4.1.2 and 4.1.3 MCM#1 Goals, Tasks, Schedule, Responsible Person**

Measurable Goals and Tasks	Implementation Schedule and Interim Milestones	Responsible Individual or Group
Maintain educational information on County's website	Update as needed when changes occur, and monitor quarterly	Webmaster
Identify target audiences	Update as needed when changes occur, and monitor quarterly	Gary Roark
Identify and Maintain educational material venues	Update as needed when changes occur, and monitor quarterly	Gary Roark
Identify and Attend community event opportunities	Newton County Fair	Gary Roark
Maintain spreadsheet of activities, venues, and quantity of impressions	Update after each occurrence	Gary Roark
Work with stream team cleanup events and organizations	As needed	Gary Roark
Annual Storm Water Report to DNR	Submit report every year by July 28	Gary Roark

**MCM #2: Public Involvement and Participation**



**4.2.2 Public Involvement/Participation**

**4.2.2.1 Permit requirement**

Newton County will comply with State and City public notice requirements when implementing the public involvement and participation program via the media, community events, the County's web site, the Newton County Fair, activities at Wildcat Glades, and as outlined in the County's Storm Water Master Plan.

**4.2.2.1.1 Involvement**

The development of the Storm Water Plan was done in conjunction with the City of Joplin, Wildcat Glades personnel, the Newton County Health Department, and the Missouri American Water Company who utilizes water from Shoal Creek to provide water for the City of Joplin.

**4.2.2.1.2 Target Audiences for Involvement**

The target audiences for the public involvement include:

- Citizens and Homeowners (includes all races and economics groups)
- Mass Media
- Local Elected Officials

- Business Leaders Contractors, Home Builders, Developers
- Teachers
- Seniors
- Civic Organizations
- Tri-State Water Resource Coalition
- Shoal Creek Watershed Partnership
- Spring River Water Coalition

#### **4.2.2.1.3 Activities**

Joplin plans will involve the public through the following activities:

- Contractor training workshops
- Public meetings
- Water festivals
- Newton County Fair



#### **4.2.2.1.3.1 Storm Water Management Panel**

The storm water management panel is made of members of the community from various backgrounds.

#### **4.2.2.1.3.2 Public Hearings**

Educational information is exhibited at appropriate public hearings.

#### **4.2.2.1.3.3 Volunteers**

We will work with the Wildcat Glades Conservation and Audubon Center and other groups to provide information concerning the storm water plan and our goals for success.

#### **4.2.2.1.3.4 Monitoring and Clean-Up**

Newton County employees and the Newton County Health Department work with the local nature center, stream teams, and outfitters to monitor and clean up Shoal Creek, and other creeks in Newton County.

#### **4.2.2.1.4 Involve the Public**

Newton County staff plans to partner with stream teams, master gardeners, master naturalists, local nature center staff and volunteers, to involve the public. Community events, distribution of brochures, mass media, and other tools will be used.

#### **4.2.2.1.5 Evaluation**

The success of public involvement will be determined by keeping a spreadsheet of dates, activities and quantity of contacts. A survey will be conducted at the Newton County Fair

**4.1.2 and 4.1.3 MCM#2 Goals, Tasks, Schedule, Responsible Person**

Measurable Goals and Tasks	Implementation Schedule and Interim Milestones	Responsible Individual or Group
Identify and target the media, community events, nature center activities, master gardeners, and master naturalists	Update as needed when changes occur, and monitor quarterly	Gary Roark
Advertise and Conduct Public Hearings and Meetings	As needed; partner with existing special interest water coalition meetings	Gary Roark
Involve the Public and recruit volunteers at community events	Annual WaterFest, Annual Home Show, and the Newton County Fair	Gary Roark
Maintain spreadsheet of activities, venues, quantity of impressions and share with the municipal storm water partners	Update after each occurrence; Close out each spreadsheet on a calendar year basis	Gary Roark

**MCM #3: Illicit Discharge Detection and Elimination**

**4.2.3 Illicit Discharge Detection and Elimination**

**4.2.3.1 Enforce Detection and Elimination Program**

Due to the limited power of Second Class Counties to develop, implement and enforce County Ordinances, we plan to conduct extensive efforts to make the general public aware of the dangers created by illicit discharge of materials into the waterways of Newton County.

**4.2.3.1.1 Storm Sewer Map**

The Watershed Map for Newton County was developed from material available on Missouri Department of Natural Resources website and USGS topoquad maps. The outfall locations were plotted on this map and are numbered to correspond with Appendix A.

**4.2.3.1.2 Ordinance**

The State of Missouri Statues do not allow Class 2 Counties to adopt Ordinance or Codes unless approved by a vote of the residents of the County. This has proven to be a very divisive measure because there is very limited support for Planing and Zoning.

**4.2.3.1.3 Methods to Detect; and Address non storm water discharges**

The County or agent contracted by the County will provide field testing of creeks to detect for non-storm water discharges. The County goals will focus attention on Shoal Creek being the primary creek as well as being the source of drinking water for Joplin and Neosho. In addition, a visual inspection of the outfalls for Newton County will be conducted by the County or agent of the County. An inspection report will be provided along with testing of the major outfalls.



#### **4.2.3.1.3.1 Procedures for locating priority areas; and**

**There are no sanitary sewer lines within the unincorporated areas of Newton County. The Newton County Health Department does operate under a Septic System Ordinance which regulates the installation and maintenance of septic systems**

#### **4.2.3.1.3.2 Procedures for tracing the source; and**

**Newton County will provide yearly visual inspection of areas likely to be subject to illicit discharge.**

#### **4.2.3.1.3.3 Removing the source of illicit discharge; and**

**Since we do not have the ability to enact and enforce ordinances, we plan to use Missouri State Statutes, Chapter 644 to prosecute offenders and eliminate illicit discharge sources.**

#### **4.2.3.1.3.4 Enforcement Procedures**

**Newton County will utilize Missouri Revised Statutes , Chapter 644, Water Protection, Sections 644.082, 644.096, and 644.076 to enforce illicit discharges within the county.**

#### **4.2.3.1.3.5 Plan to Inform**

**Newton County will inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste using the following methods:**

- Literature distribution
- Posting signs
- Recycling program for household hazardous waste
- Illegal dumping hotline
- Illicit discharge is always mentioned during all public education activities

#### **4.2.3.1.3.6 Program evaluation and assessment**

**The level of public response and general public acceptance will be used to evaluate the success of this minimum control measure.**

#### **4.2.3.1.4 Insignificant Contributors**

**Newton County has not identified any of the following categories of non-stormwater discharges or flows (i.e. illicit discharges) as significant contributors of pollutants to their small MS4: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration (as defined in 10 CSR 20-6.200), uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, springs, water from crawl space pumps, footing drains, lawn watering, flows from riparian habitats and wetlands, and street wash water (discharges or flows from fire fighting activities are excluded from the effective prohibition against non-stormwater and will only be addressed where they are identified as significant sources of pollutants to waters of the State.)**



**4.1.2 and 4.1.3 MCM#3 Goals, Tasks, Schedule, Responsible Person**

Measurable Goals and Tasks	Implementation Schedule and Interim Milestones	Responsible Individual or Group
Investigate illicit discharge complaints from citizens and County staff	As needed; monitor the list quarterly; Compile the list every calendar year	Newton County Health Department Sheriff's Department Gary Roark
Educate the public regarding Illicit discharge detection and elimination	As needed; partner with existing special interest water coalition meetings	Gary Roark
Maintain spreadsheet of activities, venues, quantity of impressions	Update after each occurrence; Close out each spreadsheet on a calendar year basis	Gary Roark

**MCM #4: Construction Site Stormwater Runoff Control**



**4.2.4 Construction Site Storm Water Runoff Control**

**4.2.4.1 Permit Requirements**

Newton County will ensure that all construction sites that result in a land disturbance greater than one acre acquire a permit (permit number MO-R10A-Z) from MDNR and will monitor the project to insure compliance with the permit.

**4.2.4.1.1 Regulatory Mechanism**

Newton County will require developers/operators to implement erosion and sediment control BMPs as required by land disturbance activities in accordance with MDNR requirements and the specific development Storm Water Pollution Prevention Plan (SWPPP) as required by the MDNR Land Disturbance permit.

**4.2.4.1.1.2 Sanctions**

Sanctions will be levied by filing charges under State of Missouri Statutes if not in compliance with their MDNR Land Disturbance Permit.

**4.2.4.1.1.3 Ordinance**

As stated earlier, Newton County is unable to enact ordinances or adopt codes unless approved by the voters of Newton County. We will however, continue to aggressively encourage residents and developers to comply with all State Statutes and the following :

**Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices, (Document No. EPA 832-R- 92-005) published by the U.S.**

Environmental Protection Agency (USEPA) in September 1992. **Protecting Water Quality: A field guide to erosion, sediment and storm water best management practices for development sites in Missouri**, published by Missouri Department of Natural Resources in November 1995.  
<http://www.dnr.mo.gov/env/wpp/wpcp-guide.htm>

**4.2.4.1.2 Wastes to be Controlled**

We will strongly encourage construction site operators to utilize Chaptr 2, Missouri Guide to Green Infrastructure during construction.

**4.2.4.1.3 Site Plan Review**

Newton County does not have the authority of require the submission of pre-construction site plans for potential water quality impacts.

**4.2.4.1.4 Receipt and Consideration of Public Comment**

Newton County will develop procedures for public comment with regard to development plans. This may include notification of neighboring property of the proposed development with the allowance for public comment.

**4.2.4.1.5 Site Inspection and Prioritization**

Newton County will develop procedures to encourage developers and residents to implement BMP's in accordance with the SWPPP and the NPDES permit.

**4.2.4.1.6 Regulatory Mechanism**

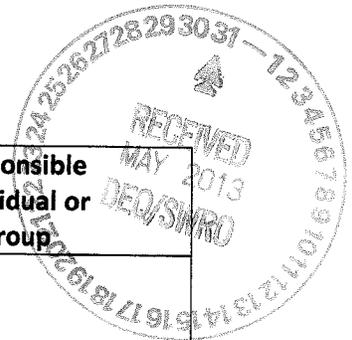
Newton County will develop procedures to encourage developers and residents to implement BMP's in accordance with the SWPPP and the NPDES permit.

**4.2.4.1.7 Evaluation**

Newton County will evaluate the success of this minimum control measure based on compliance of developers to the NPDES permit and the success of erosion control measures to protect Newton County watersheds.

**4.1.2 and 4.1.3 MCM#4 Goals, Tasks, Schedule, Responsible Person**

Measurable Goals and Tasks	Implementation Schedule and Interim Milestones	Responsible Individual or Group
Educate Contractors, Builders, Developers, etc. regarding State Statutes and BMPs via handouts, Site Visits and media.	Provide on site and at public meetings	Gary Roark
Maintain spreadsheet of activities, venues, and quantity of	Update after each occurrence; Close out each spreadsheet on a calendar	Gary Roark



impressions	year basis	
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**MCM #5:**

**Post-Construction Storm Water Management in New Development and Redevelopment**

**4.2.5 Permit Requirement**

Newton County is unable to require post construction permits.

**4.2.5.1.1 Strategy**

Newton County will develop a strategy to minimize water quality impacts. The strategy will include encouraging the use of Chapter 3 ,Missouri Guide to Green Infrastructure. We will continue to strongly encourage measures to protect water quality by implementing non-structural and structural BMPs.

Non-structural BMPs will include County Planning to encourage development in areas away from creek boundaries, minimizing permeable surfaces, and encouraging open spaces.

Structural BMPs include Retention/Detention Basins, Infiltration Practices, and Vegetative BMP's.

**4.2.5.1.2 Ordinance**

Newton County will continue to aggressively recommend the procedures addressed in Chapter 3, of the Missouri Guide to Green Infrastructure that addresses post construction runoff. Existing road standards for new development show a 20-foot roadway width with grass swales. Utilizing the minimal road width alongside grass swales provides a low-cost way to preserve as much pervious areas and eliminating the need for funneling storm water and storm water pollutants into storm sewers. Additions to the Storm Water ordinances will include:

1. Methods such as retention/detention and infiltration for flood protection.
2. Minimizing imperviousness in new developments.
3. Methods for pollutant removal.

**4.2.5.1.3 Long-term Operation and Maintenance**

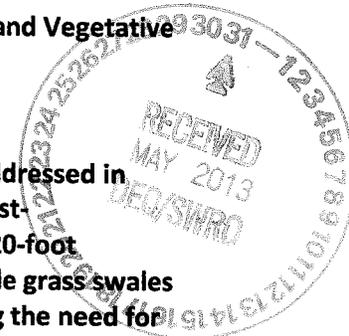
Newton County will continue to ensure adequate long-term operation and maintenance of BMPs, both public and private. We will strongly encourage property owners to maintain the BMP's.

**4.2.5.1.4 Priority Areas**

Development in Newton County is generally concentrated along Interstate 49 between Joplin and Neosho, and along Interstate 44 that runs east/west south of Joplin.. In addition, Shoal Creek runs nearby and may be affected by development along this corridor.

**4.2.5.1.5 Non-Structural BMPs**

Newton County and the Shoal Creek Watershed Partnership have met with an abundant amount of opposition to any riparian corridors along any stream corridor in the County. It is the County's intent



to utilize other non-structural BMP's such as infiltration practices and County Planning to encourage those areas away from Shoal Creek or other streams in the County.

**4.2.5.1.6 Structural BMPs**

**4.2.5.1.6.1 Other infiltration practices**

Newton County contains no high-density urban areas other than Joplin and Neosho. Since these are incorporated areas and have their own Storm Water Management Program, it is anticipated that the County will not have any infill development policy at this time.

**4.2.5.1.6.2 Education Programs**

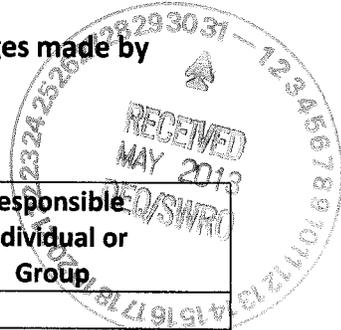
Newton County will sponsor educational programs for developers and the public about project designs that minimize water quality impacts. We will also utilize resources and materials developed by the Jasper/Newton County Environmental Task Force to enhance our educational programs.

**4.2.5.1.7 Evaluation**

Newton County will measure the success of this program based on the changes made by developers in their development practices.

**4.1.2 and 4.1.3 MCM#5 Goals, Tasks, Schedule, Responsible Person**

Measurable Goals and Tasks	Implementation Schedule and Interim Milestones	Responsible Individual or Group
Maintain spreadsheet of activities, venues, quantity of impressions	Update after each occurrence; Close out each spreadsheet on a calendar year basis	Gary Roark
Strongly Support Best Management Practices in Post Construction Storm Water Management	Make presentations, provide handouts, encourage and attend public meetings	Gary Roark



**MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations**

**4.2.6 Pollution Prevention/Good Housekeeping for Municipal Operations**

**4.2.6.1 Permit requirement**

Newton County municipal operations include the county road districts maintenance yards. The County does not operate any NPDES permits for industrial activities. Each facility conducts training with the goal of preventing or reducing pollutant runoff.

#### 4.2.6.1.1 Municipal Operations List

Municipal operations impacted by good housekeeping minimum control measures:

- Road Districts Maintenance and Storage Facilities
- Newton/McDonald Landfill (closed)
- Fire Departments located in unincorporated areas of the county



#### 4.2.6.1.2 Maintenance BMPs to reduce floatables and other pollutants

Joplin storm water ditch crews, catch basin cleaning crews, and street sweepers are dispatched Monday through Friday to predetermined locations and to complaint driven locations. One of their many goals is to remove floatables, dredge spoils, accumulated sediments, plus investigate/remove other pollutants. All areas north and South of Shoal Creek located in unincorporated Newton County are within the boundaries of the Joplin Special Road District. The road district has the same goals as the City of Joplin.

#### 4.2.6.1.3 Pollutant Discharge Controls

Newton County depends upon the City of Joplin to reduce discharge of pollutants via various activities such as inspections, training, storing chemicals indoors, maintaining lids on trash receptacles, ditch crew operations, street sweeping, secondary containment, routine trash disposal service, and others.

#### 4.2.6.1.4 Controls described in Sections 4.1.5 through 4.1.8

##### 4.1.5 Solid Waste

Newton County has developed procedures for removal of waste from Newton County's MS4 and streams. This is to be accomplished in cooperation with the Wildcat Glades, stream teams, and the Jasper/Newton County Environmental Task Force.

##### 4.1.6 Fueling Facilities

None of Newton County's Road Districts have on-sight fueling facilities.

##### 4.1.7 RCRA and CERCLA

Substances regulated by federal law that are transported, stored or used for maintenance, cleaning or repair are managed by the Road Districts and Fire Departments.

##### 4.1.8 Paint, solvents, etc.

Paint, solvents, petroleum products, etc. are stored indoors at all county facilities. Professional hazardous waste contractors are engaged when necessary.

#### 4.2.6.1.5 Disposal of materials

The disposal of waste removed from the County's MS-4 area consisting of dredged materials, accumulated sediments, floatables, and other debris, to include tires are taken to the Regional Recycling Center in Neosho or the City of Joplin Recycling Center. All hazardous waste will be taken to Joplin's HHW facility at the Joplin Recycling Center.

**4.2.6.1.6 Flood Management Projects**

Newton County will utilize professional engineers experience in regards to flood management projects and the impacts on water quality. Flood management projects such as channel widening or detention basin construction should be designed with the understanding of flow rates and velocities and with regards to flow rates and erosion control. Newton County does have a Flood Plain Ordinance which was approved by the voters. All development within Flood Plains must apply for a Flood Plain Development Permit which allows for insuring that all possible impacts on water quality will be addressed prior to approval of the permit.

**4.2.6.1.7 Training**

County employees receive training from DNR and EPA web sites, workshops, conferences, trade journals, plus local engineers and consultants.

**4.2.6.1.8 Evaluation**

Newton County staff will document training events, attendance of continuing education, and employee compliance regarding tasks and schedules.



**4.1.2 and 4.1.3 MCM#5 Goals, Tasks, Schedule, Responsible Person**

Measurable Goals and Tasks	Implementation Schedule and Interim Milestones	Responsible Individual or Group
Conduct and Document Training	Update after each occurrence; Close out each spreadsheet on a calendar year basis	Gary Roark
Manage Floodplain Development	Maintain Community File of Projects	Gary Roark
Maintain spreadsheet of activities, venues, and quantity of impressions	Update after each occurrence; Close out each spreadsheet on a calendar year basis	Gary Roark

**4.3 Sharing Responsibility**

Newton County does share "information and training opportunities," but does NOT share *responsibility* of any control measures.

Page not used



### Appendix A: Best Management Practices Implementation Summary

BMP Description (4.1.1)	Measurable Goal (4.1.2)	Timeframe to Implementation (4.1.2)				Responsible Dept. (4.1.3)
		2013	2014	2015	2016	
<b>Public Education and Outreach</b>						
Have a storm water booth at the Newton County Fair.	Storm water booth at Newton County Fair.	X	X	X		Stormwater Staff
Develop informational fact sheets on Land Disturbance and Illicit Discharge and distribute	Land Disturbance and Illicit Discharge Fact Sheets		X			Stormwater Staff
Continue the Public Education Program	Reach 75% of County		X	X		Stormwater Staff
<b>Public Involvement and Participation</b>						
Continue to develop watershed plans for Newton County's 8 watersheds and sub watersheds	Develop watershed plans		X	X		Stormwater Staff
Facilitate watershed coalition meetings to continue on-going watershed activities( i.e. Shoal Creek Watershed Partnership)	Facilitate watershed meetings with on-going activities	X	X	X		Stormwater Staff
<b>Illicit Discharge Detection and Elimination</b>						
Visual inspection of all Phase II outlets from Newton County	Visual inspection of Phase II outlets		X			Stormwater Staff
Determine EPA/MoDNR water quality testing requirements & equipment required.	Determine water quality testing requirements & equipment	X				Stormwater Staff
List and perform visual inspection on 5 miles of stream orders 3 and above in Newton County.	Visual Inspection		X			Staff, Stream Teams
<b>Construction Site Storm Water Runoff Control</b>						
Adopt Development Standards, Storm Water Design Requirements, and Erosion Control Standards.	Educate on Importance of public acceptance	X				Stormwater Staff
Train Staff on land disturbance and stormwater requirements associated with construction activity in accordance with Article 10	Train Volunteers	X				Gary Roark
Prepare information on BMP	Develop BMP Manual for use by Staff and Volunteers		X			Gary Roark
Check All Projects Involving Land Disturbance to ensure Proper Permits have been obtained from MDR	Review Land Disturbance Permits and SWPPP's	X	X	X	X	Stormwater Staff
<b>Post-Construction Storm Water Management</b>						
Review proposed subdivision plans for on-going maintenance documentation and requirements in subdivision covenants.	Review subdivision plans for on-going storm system maintenance	X	X	X	X	Gary Roark
<b>Pollution Prevention and Good Housekeeping - Parks</b>						
Inspect drainage of all county parks for erosion and proper flow	Park Drainage Inspection	X	X	X	X	Stormwater Staff
Reduce usage and select alternative environmentally friendly products when available	Herbicide Application, Athletic Field Liner Application	X	X	X	X	Stormwater Staff
Utilize proper storage and disposal of chemicals in the appropriately friendly manner	Chemical Storage	X	X	X	X	Road Districts
<b>Pollution Prevention and Good Housekeeping - Public Works</b>						
Sweep after winter and prior to pavement striping. Sweep after seal coating roads.	Road Sweeping Program	X	X	X	X	Road Districts
Store salt inside buildings. Calibrate salt spreaders as necessary.	Salt Storage	X	X	X	X	Road Districts
Store lubricants in tank within a containment area. Dispose of used lubricants with approved vendor.	Lubricant Storage	X	X	X	X	Road Districts
Absorbent materials used on spills as opposed to hosing down. Waste materials stored in proper, leak proof containers. Used tires disposed of at an approved tire shredder.	Vehicle and Equipment Repair	X	X	X	X	Fire Dept, Road Districts
Maintain Adopt-A-Road Program on County Roads	Adopt-A-Road Program	X	X	X	X	Stormwater Staff

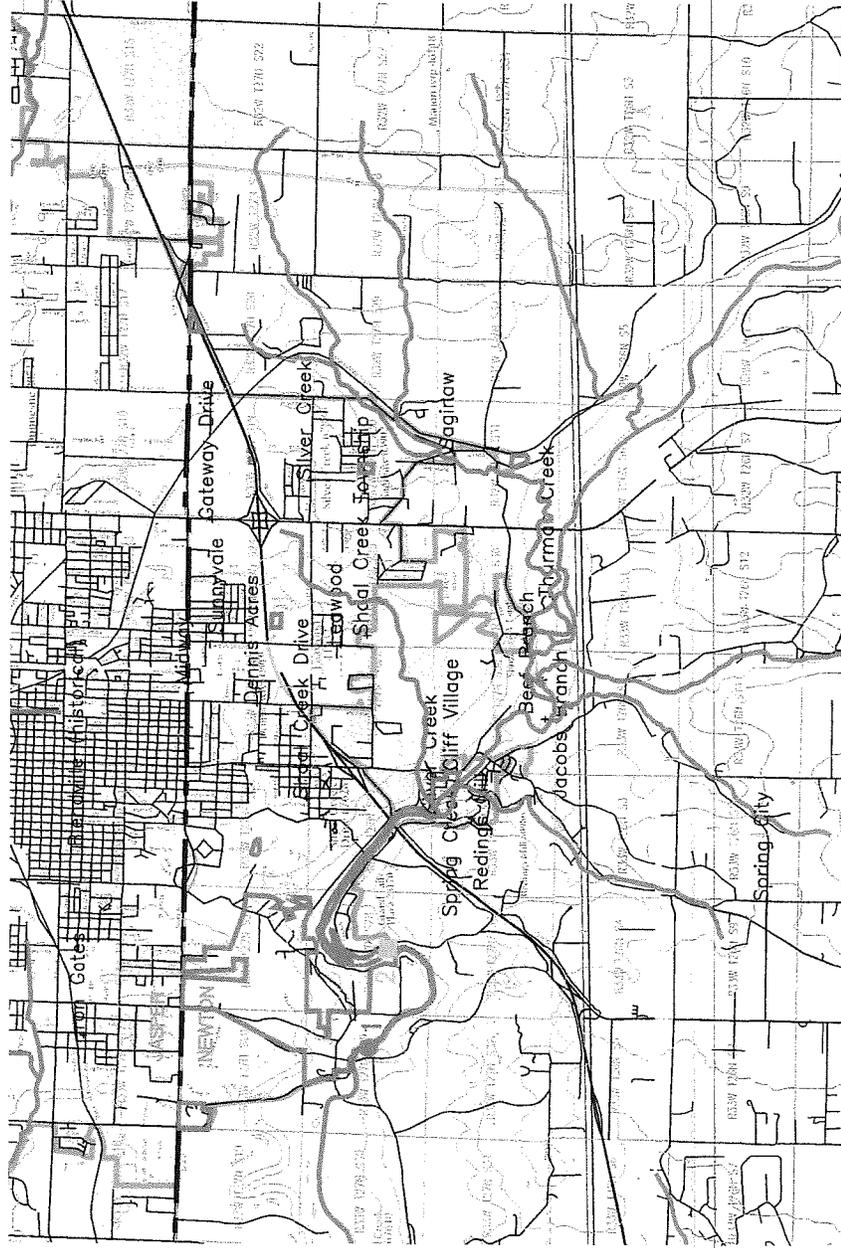
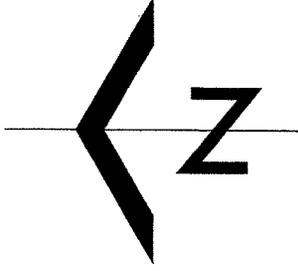


Attachment 1

**MAJOR WATERSHEDS  
IN NEWTON COUNTY  
UNANEXED URBANIZED AREAS  
SHOAL CREEK**

- NEWTON COUNTY
- ~ WATER BODY
- 1 ● OUTFALL POINT  
(SHOAL CREEK)
- 2 ■ INFLOW POINT  
(SHOAL CREEK)
- UNANEXED  
URBANIZED AREAS  
IN NEWTON COUNTY

GRAPHIC SCALE  
( IN FEET )  
1 inch = 5000ft.



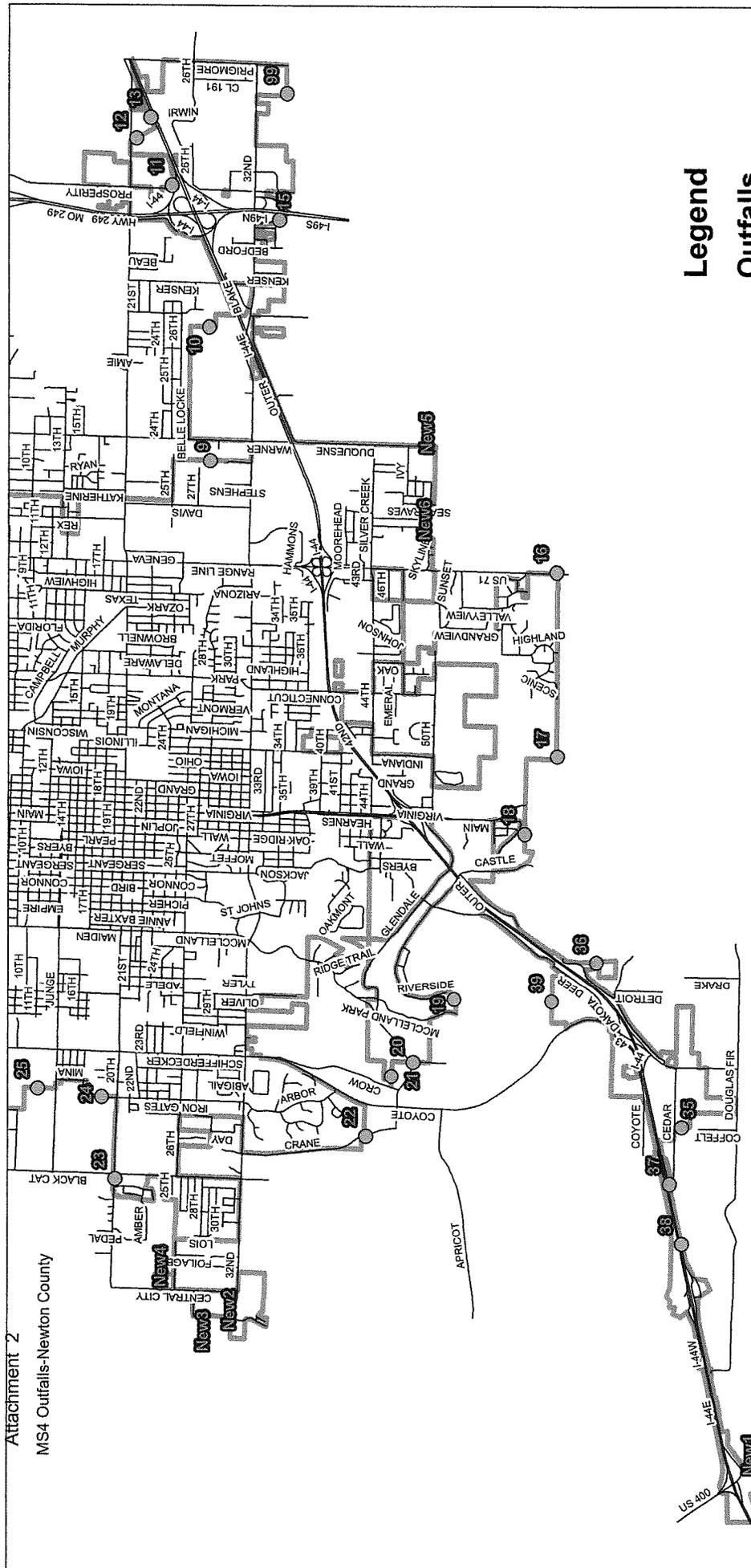
**HR**  
HILBERT-ROSCHE  
ENGINEERS, INC.  
3675 WEST OUTER ROAD,  
SUITE 101  
ARNOLD, MO  
PH: 636-333-3351  
FX: 636-333-3354  
NEOSHO, ARNOLD, MO  
HILLSBORO, SPRINGFIELD  
MARION, EAST ST. LOUIS, IL

NEWTON COUNTY  
STORM WATER MANAGEMENT PLAN  
UNANEXED URBANIZED WATERSHED MAP

DATE: \_\_\_\_\_  
PROJECT NO: \_\_\_\_\_  
DESIGNER: \_\_\_\_\_  
DRAWN: \_\_\_\_\_



Attachment 2  
MS4 Outfalls-Newton County



**Legend**  
**Outfalls**  
**Name**

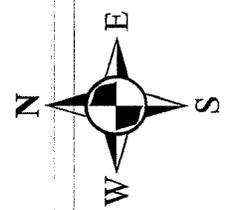
- Existing
- New

— Joplin Streets

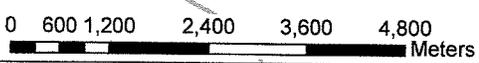
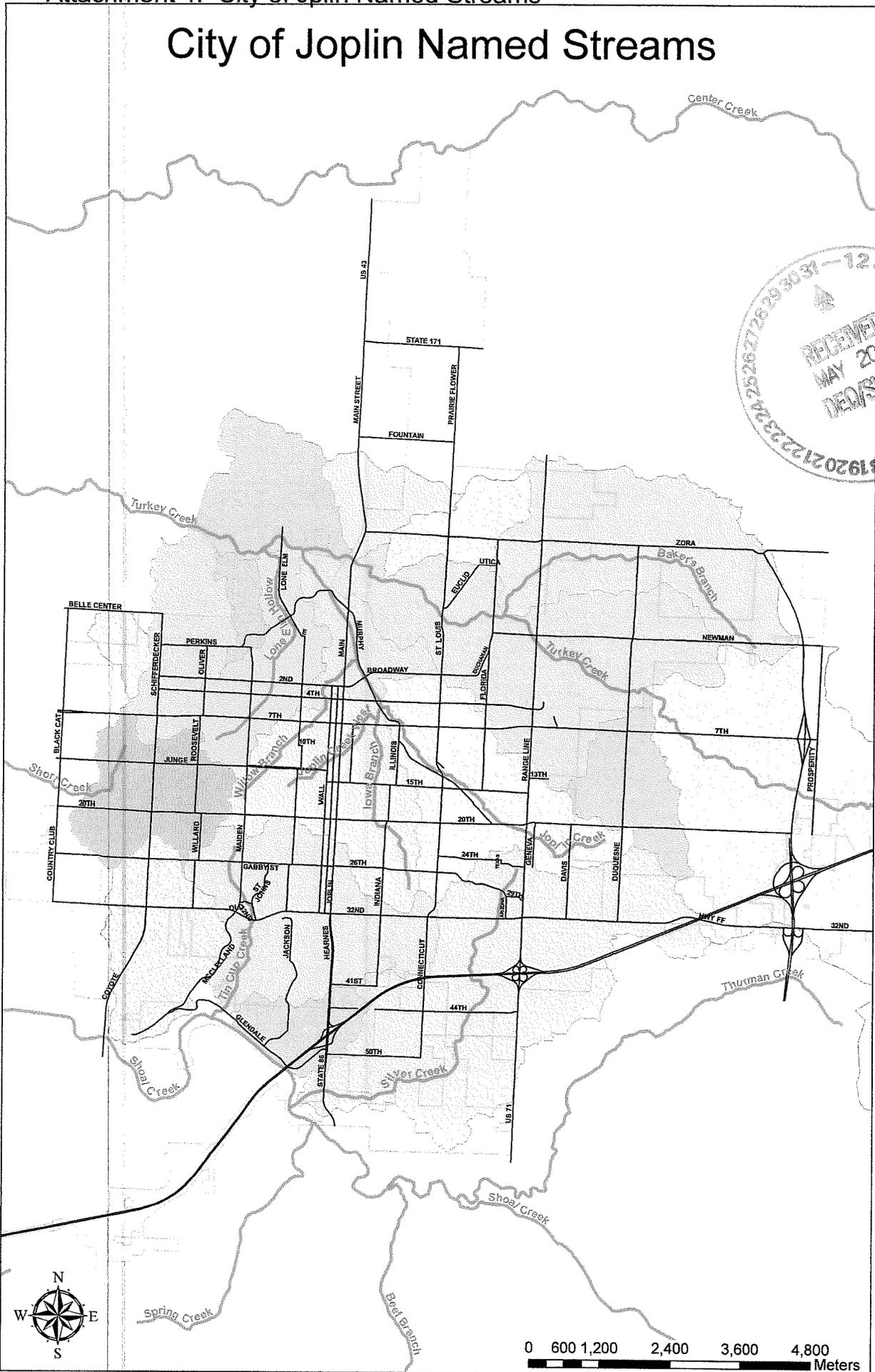


Joplin City Limits

1 inch = 4,000 feet Date: 5/9/2013



# City of Joplin Named Streams



# City of Joplin Outflows

