

February 28, 2022

# KANSAS DEPARTMENT OF TRANSPORTATION

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## STORMWATER MANAGEMENT PLAN

**Permit(s) Effective:** December 1, 2019 to November 30, 2024

Submitted by  
**Burt Morey, P.E.**  
Deputy Secretary and State Transportation Engineer

### **Applicable Permits:**

Kansas City: M-KS27-SU01

Lawrence: M-KS31-SU02

Topeka: M-KS72-SU02

Manhattan: M-KS38-SU01

St. Joseph: M-MO05-SU01

Wichita: M-AR94-SU02



## MCM1: Public Education and Outreach

KDOT has implemented a public education and outreach program to inform the public about stormwater management and the importance of reducing pollutants in MS4 areas.

Reference Table 1.1 below for a list of available BMPs for implementation and their respective descriptions per KDOT's MS4 permit.

**Table 1.1 - Available BMPs**

Lbmp P Ed&O	KDOT Applicability		Description
	Existing	Future	
01	Yes	Yes	Maintain a stormwater webpage
02	Yes	Yes	Distribute educational materials addressing stormwater
03	No	No	Provide training or educational materials to permittee identified businesses
04	No	No	Apply "No Dumping – Drains to River" message, or similar, on stormwater inlets
05	Yes	Yes	Post MS4 permit and SMP document on stormwater webpage
06	Yes	Yes	Provide stormwater hotline or web-based method for public reporting of illicit discharges
07	No	No	Provide educational material annually to at least four groups
08	No	No	Provide stormwater education for students within permittee's jurisdiction
09	No	No	Operate an information booth at a large public event
10	No	No	Provide training or educational materials to lawn/turf care services addressing BMPs
11	No	No	Adopt a public education program to reduce littering
12	Yes	Yes	Create a stormwater information brochure to provide at public meetings & hearings
13	Yes	Yes	Operate an adopt-a-highway program to utilize public volunteers
14	No	No	Hold a media campaign addressing pertinent stormwater topics
15	No	No	Participate in a social media program on stormwater topics
16	No	No	Operate an information booth intended to improve public understanding of water quality
17	No	No	Operate an adopt-a-street program to utilize public volunteers

BMPs identified as applicable to KDOT are described in the following subsections.

## Lbmp P Ed&O - 1: Maintain a Stormwater Webpage

*Measurable Goal: Include up-to-date information, document monthly checks, and summarize changes*

Established in 2003, KDOT's Stormwater Management Program's (SWMP) purpose is to prevent and/or reduce pollution in stormwater runoff. The following subpages can be found within KDOT's stormwater webpage:

- ▶ SWMP Home.

Illicit discharge information including a general overview, an educational video (in both English and Spanish), and methods on reporting illicit discharge can be found on the SWMP homepage.

Link: <https://www.ksdot.org/bureaus/burMaint/StormWater/default.asp>

- ▶ MS4 Public Education.

The MS4 Public Education subpage provides educational material for the public regarding stormwater pollution prevention awareness. KDOT provides information regarding stormwater runoff, the purpose of the stormwater management program. Also included is why eliminating litter and preventing illicit discharge is important with regards to water quality. KDOT also included additional steps the public can take to help eliminate and/or reduce stormwater pollutants.

Link: <https://www.ksdot.org/bureaus/burMaint/StormWater/MS4PubEd.asp>

- ▶ MS4 Storm Water Outfall Inventory Map.

The MS4 Storm Water Outfall Inventory Map subpage includes PDF maps that depict outfalls of stormwater infrastructure into streams, lakes, and wetlands. Each map refers to a respective urbanized area.

Link: <https://www.ksdot.org/bureaus/burMaint/StormWater/SWOutfallInventMaps.asp>

- ▶ Annual Reports.

The Annual Reports subpage includes the annual reports dated from 2015 to 2020. The annual reports document KDOT's stormwater management BMPs for the current year for each permitted urbanized area. A link to the effective Stormwater Management Plan and MS4 permit is also available through this subpage.

Link: <https://www.ksdot.org/bureaus/burMaint/StormWater/SWMPPlan.asp>

- ▶ Best Management Practices.

The Best Management Practices subpage describes structural and non-structural examples of Best Management Practices (BMPs). These BMPs help reduce and/or eliminate pollutants from entering MS4s.

Link: <https://www.ksdot.org/bureaus/burMaint/StormWater/BMPs.asp>

- ▶ Construction Storm Water and Pollution Control.

The Construction Storm Water and Pollution Control subpage includes links to manuals, documents, forms, and other websites KDOT uses to manage stormwater runoff from construction activities.

Link: <https://www.ksdot.org/bureaus/burConsMain/Connections/swppp.asp>

▶ Links.

The Links subpage includes links to websites that supplement activities in KDOT's SWMP, including but not limited to KDOT's Adopt-a-Highway Program, Kansas Department of Environment and Health Stormwater Program, US EPA, and FHWA Stormwater Resources.

Link: <https://www.ksdot.org/bureaus/burMaint/StormWater/links.asp>.

***2021 Annual Report Update***

During the 2021 permit year, KDOT developed a monthly log to track the number of visitors to the Stormwater Management Program website as well as any changes made to the website.

The active link to the Stormwater Management Program website is <https://www.ksdot.org/bureaus/burMaint/StormWater/default.asp> .

## **Lbmp P Ed&O - 2: Distribute Education Materials Addressing Stormwater**

*Measurable Goal: Number distributed annually shall equal or exceed the most recent US Census Bureau decennial housing units value for the permit area, document both number distributed and housing units value*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT releases a quarterly newsletter titled Stormwater Update to inform their audience about the latest stormwater news as it relates to KDOT. Topics include, but are not limited to, the following:

- ▶ Construction Stormwater Training
- ▶ Stormwater Deficiencies
- ▶ Noxious Weeds
- ▶ Soil Preparation
- ▶ Wildflowers and Pollinators

Past newsletters can be found here: <https://www.ksdot.org/bureaus/burConsMain/Connections/past-stormwater-update-newsletters.asp>.

In addition to being made publicly available online, these newsletters are distributed to KDOT's audience. Their audience includes internal employees, contractors (including the Kansas Contractor's Association, cities, and other DOTs (such as Nebraska, Missouri, and Iowa).

### ***2021 Annual Report Update***

During the 2021 permit year, KDOT published newsletters on June 30<sup>th</sup>, September 21<sup>st</sup>, and October 29<sup>th</sup>. Topics covered in these newsletters include updates regarding SWPPP inspections, Construction Stormwater Training, and the new R04 revision. Also included is a discussion on drone applications for stormwater runoff and erosion.

## Lbmp P Ed&O - 5: Post the MS4 Permit and SMP Document on the Stormwater Webpage

*Measurable Goal: Must be posted for at least 6 months of the year*

The MS4 permits and 2020 Stormwater Management Plans can be found on KDOT's Stormwater Management Program webpage here:

<https://www.ksdot.org/bureaus/burMaint/StormWater/SWMPlan.asp>. Both the permits and the plans are broken out per the following urbanized areas:

- ▶ Kansas City
- ▶ Lawrence
- ▶ Topeka
- ▶ Manhattan
- ▶ St. Joseph
- ▶ Wichita

### ***2021 Annual Report Update***

For the 2021 permit year, KDOT uploaded the 2020 Stormwater Management Plans for the six urbanized areas. In early 2022, KDOT will upload the updated Stormwater Management Plans to the website. Also included are links to the effective MS4 permits per urbanized area.

The active link to the Stormwater Management Plan subpage is

<https://www.ksdot.org/bureaus/burMaint/StormWater/SWMPlan.asp>.

## **Lbmp P Ed&O - 6: Provide Stormwater Hotline or Web-Based Method for Public Report of Illicit Discharges**

*Measurable Goal 1: Respond to all reported complaints within 10 days*

*Measurable Goal 2: Resolve or set a schedule for resolution within 20 days*

The public is instructed to report illegal dumping to Kansas Department of Health and Environment's (KDHE) Spill Reporting Number: 1-785-291-3333. For suspected illicit discharge within KDOT's right-of-way, the public is advised to send an email to [KDOT.MS4@ks.gov](mailto:KDOT.MS4@ks.gov). The subject line for these emails should read "Illicit Discharge Reporting".

KDOT documents response to illicit discharge complaints in a log.

### ***2021 Annual Report Update***

For 2021, there were no emails received. The email address was tested. KDOT has not received any stormwater issue emails to the general public email inbox.

## **Lbmp P Ed&O - 12: Create a Stormwater Information Brochure to Provide at Public Meetings & Hearings**

*Measurable Goal: Have multiple copies of the brochure available during at least 10 meetings*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT developed a brochure to educate the public about the Adopt-a-Highway program. This brochure provides information to help keep participants safe while volunteering to keep Kansas clean. Topics highlighted in this brochure include the following:

- ▶ What can I do?
- ▶ Be on the alert
- ▶ What to wear
- ▶ Things not to do
- ▶ Helpful hints
- ▶ Weather

The Adopt-a-Highway brochure is available to the public via KDOT's Adopt-a-Highway program webpage here: <https://www.ksdot.org/Assets/wwwksdotorg/bureaus/burConsMain/Adopt-A-Highway-2011-Letter-for-web.pdf>.

### **2021 Annual Report Update**

For the 2021 permit year, KDOT made the Adopt-a-Highway brochure available to the public here: <https://www.ksdot.org/Assets/wwwksdotorg/bureaus/burConsMain/Adopt-A-Highway-2011-Letter-for-web.pdf>.

## Lbmp P Ed&O - 13: Operate an Adopt-a-Highway Program to Utilize Public Volunteers

*Measurable Goal: Volunteers shall clean at least a two-mile segment of road within permit area, at least once per year*

KDOT offers the following programs to address litter and debris along Kansas highways:

### **Adopt-a-Highway**

Established in 1989, KDOT's Adopt-a-Highway program encourages citizens to volunteer to pick up litter and trash along state highways. Volunteers are required to pick up litter at least three times for a two-year period. Participants range from families to organizations such as youth groups, businesses, etc. Two-mile segments are the most common, but three-mile and one-mile segments are also an option depending on if it's an urban or rural setting.

Interested groups must complete an application and a release form. Signed by all participants within each group, the release form requires volunteers to agree to remove litter and trash a minimum of three times a year for a two-year period. The release form is then submitted to the nearest KDOT office. Groups who wish to reapply must complete a renewal form.

Additional information regarding the program, including the application form, renewal form, and safety video, can be found here: <https://www.ksdot.org/bureaus/burMaint/Adoptahighway.asp>.

### **Sponsor-a-Highway**

KDOT's Sponsor-a-Highway program allows business to advertise their company name and logo within view of commuters. In return, the money raised from sponsorships funds litter removal on state highways. It ultimately results in cleaner and improved highways. Benefits of participating in this program include recognition as environmental supporters who support community responsibility.

Additional information regarding the program can be found here: <https://www.ksdot.org/bureaus/burMaint/sponsorahighway.asp>.

### **2021 Annual Report Update**

During the permit year 2021, Adopt-a-Highway has 41 active groups and Sponsor-a-Highway has 24 active participants. Table 1.2 summarizes litter program activity for the permit period.

**Table 1.2 - 2021 Summary of Program Activity**

<b>Urbanized Area</b>	<b>Adopt-A-Highway Number of Groups</b>	<b>Sponsor-A-Highway Number of Groups</b>
Kansas City	13	17
St. Joseph	2	0
Lawrence	5	1
Topeka	7	3
Manhattan	7	0
Wichita	7	3

# Kansas Department of Transportation

## Stormwater Management Plan



Minimum Control Measure:  
MCM1: Public Education & Outreach

Permit Year:  
2021

BMP	Summary	Measurable Goal	KDOT Availability		Reference	How to Report	Claimed	
			Applicable	Points			2021	Points
Lbmp P Ed &O - 01	Maintain a stormwater webpage	Up-to-date information, all links effective and valid. Check links monthly. Document monthly checks in log book and indicate changes with summaries.	Yes	3	<a href="#">KDOT's Stormwater Management Program</a>	<p>1. <u>Stormwater Management Plan:</u> -Describe KDOT's stormwater webpage</p> <p>2. <u>Annual Report:</u> -Manage a monthly log that includes number of website visitors, condition of website, and a summary of changes</p>	<input checked="" type="checkbox"/>	3
Lbmp P Ed &O - 02	Distribute educational materials (can include emails) addressing stormwater	Number distributed annually shall equal or exceed the most recent US Census Bureau decennial house units value for the permit area. Document US Census value, numbers distributed, keep copies of all items distributed on file	Yes	2	Stormwater Update	<p>1. <u>Stormwater Management Plan:</u> -Describe the Stormwater Update newsletters</p> <p>2. <u>Annual Report:</u> -Document &amp; collect Stormwater Updates</p>	<input checked="" type="checkbox"/>	2
Lbmp P Ed &O - 05	Post the MS4 permit and SMP document on either the stormwater web page or the municipal webpage	Must be posted for at least 6 months of the year to claim 1 point.	Yes	1	<a href="#">KDOT's Stormwater Management Plan</a>	<p>1. <u>Stormwater Management Plan</u> -Include a link to where both SMP &amp; permits are placed</p> <p>2. <u>Annual Report:</u> -Save a pdf of the webpage showing both SMP &amp; permits -Include date of pdf printed</p>	<input type="checkbox"/> <input checked="" type="checkbox"/>	1
Lbmp P Ed &O - 06	Provide a stormwater hotline or web based method for public reporting of illicit discharges	Respond to all reported complaints within 10 days; if valid resolve or set a schedule for resolution within 20 days	Yes	2	<a href="#">KDOT's Reporting of Illicit Discharge</a>	<p>1. <u>Stormwater Management Plan:</u> -Include KDOT's reporting methods</p> <p>2. <u>Annual Report:</u> -Manage a log that includes all complaints, days to investigate, &amp; days to resolve</p>	<input checked="" type="checkbox"/>	2

Lbmp P Ed &O - 12	Create a stormwater information brochure to provide to the public at meetings and/or hearings.	Have multiple copies of the brochure available during at least 10 meetings or hearings open to the public during the year. Provide the brochures to the public at no charge.	Yes	1	<a href="#">Adopt-a-Highway Brochure</a>	<p>1. <u>Stormwater Management Plan:</u> -Describe the purpose of the brochure</p> <p>2. <u>Annual Report:</u> -Save a pdf copy of the brochure -Include a link to the website</p>	<input type="checkbox"/>	1
Lbmp P Ed &O - 13	Operate an adopt a highway program to utilize public volunteers to clean road right-of-way.	Volunteers shall clean at least a two-mile segment of road either within the permit area or adjacent to the permit area. Alternately multiple spots shich are cleaned and equate to or exceed a two-mile road clean-up can qualify for a point.	Yes	1	<p><u>Adopt-a-Highway</u> -Yearly announcement encouraging people to sign up -Litter cleanup</p> <p><u>Sponsor-a-Highway</u> -Businesses pay a monthly fee to advertise on highway -Fee covers picking up trash</p>	<p>1. <u>Stormwater Management Plan:</u> -Include program descriptions</p> <p>2. <u>Annual Report:</u> -Provide # of active groups for both programs -Manage a list of active groups</p>	<input checked="" type="checkbox"/>	1



2021 - Public Education & Outreach	
Available Points	10
Requirement	4
Claimed Points	10
Meets Requirements	Yes

## SWMP Website Log

*Use this form to document number of visitors to the SWMP website, monthly checks, and changes made to the website*

Month	Monthly Check			
	Date	Condition	No. Visitors	Changes
January	January, 2021	Checked	186	
February	February, 2021	Checked	185	
March	March, 2021	Checked	141	
April	April, 2021	Checked	319	Posted SMP, NPDES Permit and 2020 Annual Reports.
May	May, 2021	Checked	188	Posted 30 second and 10 minute Illicit Discharge Training video, both english and spanish versions.
June	June, 2021	Checked	179	
July	July, 2021	Checked	239	
August	August, 2021	Checked	274	
September	September, 2021	Checked	328	
October	October, 2021	Checked	367	
November	November, 2021	Checked	209	
December	December, 2021	Checked	168	Updated side bar Menu



### STORMWATER MANAGEMENT PROGRAM

- [SWMP Home](#)
- [MS4 Public Education](#)
- [MS4 Storm Water Outfall Inventory Manual](#)
- [Stormwater Management Plan \(SMP\)](#)
- [Annual Reports](#)
- [Best Management Practices](#)
- [Construction Storm Water and Pollution Control](#)
- [Links](#)

#### Stormwater Management Plan

In Kansas, our surface water and groundwater resources are critical for the economic, health and well-being of our citizens. Stormwater has the potential to carry pollutants from KDOT's right-of-way into streams, rivers, and lakes. KDOT has developed a Stormwater Management Program to reduce pollutants in stormwater from KDOT's roadways and facilities.

#### 2020

- [SMP](#) Kansas City Area
- [SMP](#) Lawrence Area
- [SMP](#) Topeka Area
- [SMP](#) Manhattan Area
- [SMP](#) St. Joseph Area
- [SMP](#) Wichita Area

Kansas Water Pollutions Control Municipal Separate Storm Sewer System (MS4) Permit And Authorize To Discharge Under The National Pollutant Discharge Elimination System

#### 2020 – 2024 - Permit

- [NPDES](#) Kansas City Area
- [NPDES](#) Lawrence Area
- [NPDES](#) Topeka Area
- [NPDES](#) Manhattan Area
- [NPDES](#) St. Joseph Area
- [NPDES](#) Wichita Area

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#### TRAVELER INFORMATION

TRAFFIC & TRAVELER INFO  
 KANDRIVE  
 SAFETY INFORMATION  
 STATE MAPS  
 TOURIST INFORMATION  
 KANSAS BYWAYS  
 ROAD WEATHER STATIONS  
 KANSAS CITY METRO

#### DOING BUSINESS

PERMITS  
 BIDDING & LETTING  
 COMMERCIAL VEHICLES  
 DESIGN CONSULTANTS  
 HIGHWAY CONTRACTORS  
 OFFICE OF CONTRACT COMPLIANCE  
 BRIDGE INSP. PORTAL

#### INSIDE KDOT

ABOUT KDOT  
 KANSAS CITY METRO  
 TOPEKA/LAWRENCE METRO  
 WICHITA METRO  
 DISTRICTS  
 PERFORMANCE

#### PROJECTS/PUBLICATIONS

T-WORKS  
 PROJECTS/STUDIES  
 TRANSPORTATION PLANNING  
 PUBLICATIONS

#### CONNECT WITH KDOT

MEDIA CONTACTS

#### PUBLIC INFORMATION

NEWS  
 OPEN RECORDS  
 MEDIA CONTACTS  
 PROPERTY DAMAGE CLAIMS

## Illicit Discharge Reporting Log

*Use this form to document complaints, days to investigate, and days to resolve*

No.	Monthly Check								
	Name	Date	Location	Complaint	Applicable?	Days to Investigate	Resolution	Days to Resolve	Done?
1	Dale Kirmer	January 1, 2021 to December 31, 2021	Kansas City MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
2	Dale Kirmer	January 1, 2021 to December 31, 2021	St. Joseph MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
3	Dale Kirmer	January 1, 2021 to December 31, 2021	Lawrence MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
4	Dale Kirmer	January 1, 2021 to December 31, 2021	Topeka MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
5	Dale Kirmer	January 1, 2021 to December 31, 2021	Manhattan MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
6	Dale Kirmer	January 1, 2021 to December 31, 2021	Wichita MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		

# Adopt - A - Highway

HELPING TO KEEP KANSAS CLEAN

*Safety Tips • Adopting • Participating*



In the city or in the country, along the highway or throughout the parks littering can be a costly and unsightly problem.

## Litter can do the following:

- Pollute the land and waterways of Kansas
- Harm animals and vegetation
- Take away from the beauty of the state

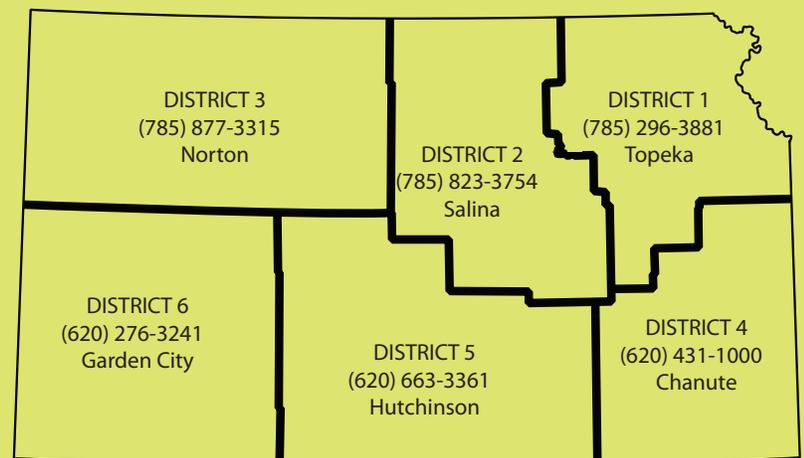
## WHAT CAN I DO?

- ♦ Be active in helping to keep your town or community clean.
- ♦ Recycle aluminum, glass, paper and plastic.
- ♦ Buy recycled materials whenever possible.
- ♦ Don't throw litter out of vehicles.
- ♦ Join KDOT's Adopt-A-Highway program or other local anti-litter organizations.

## HOW DO I JOIN?

- ♦ Any non-profit group that does not discriminate on the basis of race, religion, color or sex can participate in the Kansas Department of Transportation's Adopt-A-Highway program by calling your District office.

**NOTE:** This form is available in alternative accessible formats. To obtain an alternative format, contact the KDOT Bureau of Transportation Information, Eisenhower State Office Building, 2nd Floor, Topeka, Kansas 66603-3754, or phone (785) 296-3585 (Voice)/(Hearing Impaired -711).



*Thanks for participating in the Adopt-A-Highway program! This brochure provides information to help you have a safe and enjoyable time while working to keep Kansas roadways clean.*

## WHAT CAN I DO?

- ♦ Only pick up trash and litter.
- ♦ Car pool to reduce number of vehicles and park only in recommended areas.
- ♦ Work one side of highway at a time.
- ♦ Work only during daylight hours.
- ♦ Avoid contact with poisonous plants.
- ♦ Have a first aid kit and transportation available in case of emergency.

## BE ON THE ALERT

- ♦ Notify nearest KDOT office, the Kansas Highway Patrol or the police of suspected toxic/hazardous substances or dead animals DO NOT try to remove.
- ♦ Be alert for places where snakes may be located such as around logs, rocky area and tall grass. Avoid these areas.
- ♦ Fill sack with what goes in easily. Do not squeeze trash sacks to make room. This could result in injuries from broken or jagged objects.
- ♦ Stay clear of any maintenance or construction activities.
- ♦ Stay off roadway and paved or unpaved shoulder area, to pick up litter.

## WHAT TO WEAR

- ♦ Wear light-colored clothing and your safety vest at all times.
- ♦ Wear heavy gloves. Do not pick up discarded syringes or hypodermic needles.
- ♦ Wear substantial leather shoes or boots with ankle support. Stay off steep slopes and watch your footing.
- ♦ Wear a hat and consider using sunscreen and insect repellent.
- ♦ Wear long-sleeved shirts when temperatures allow.

## THINGS NOT TO DO

- ♦ **Do not allow children or pets at the litter pick up area or leave them in parked vehicles.**
- ♦ Do not mow or trim shrubs/weeds.
- ♦ Do not carry firearms, machetes or axes.
- ♦ Do not cross traveled sections of roadway.
- ♦ Do not pick up litter on bridges, underpasses, or overpasses.
- ♦ Do not use headsets or cell phones.

## HELPFUL HINTS

- ♦ Face oncoming traffic while you work. Be prepared to move out of the way of the vehicles in an emergency.
- ♦ Avoid overexertion.
- ♦ Have a refresher session on safety awareness each time a crew goes out.
- ♦ Crew members should have the following minimum qualifications:
  - Good physical condition, including sight and hearing.
  - Mental alertness.
  - A sense of responsibility for safety of public and crew.
  - A willingness to use good common sense.
  - Must be at least 11 years old.

## WEATHER

- ♦ Discontinue work in inclement weather, especially in times of reduced visibility and wet or icy roads.
- ♦ Be cautious of dry conditions. Be alert to fire hazards and do not smoke while working.
- ♦ Take breaks, especially when it's warm. Drink plenty of water, especially on warm days.
- ♦ Try to schedule clean-up times in the morning when it's cooler and visibility is better.

KDOT - Litter Pickup Programs				
MS4	Adopt-A-Highway	Sponsor-A-Highway	IBS - Litter Removal Service	Honor Camp - Prison Work Group
Kansas City	13	17	54.7 miles clean both directions (twice a month cycle)	
St. Joseph	2			
Lawrence	5	1		
Topeka	7	3		1 Crew (5 days/wk)
Manhattan	7			
Wichita	7	3		2 Crew (5 days/wk)

\* Honor Camp - KDOT provides the Van, trailer, safety equipment and covers the guards salary for each crew.

## MCM2: Public Involvement & Participation

KDOT shall implement a public involvement and participation program to solicit public comment and recommendations regarding the BMPs and measurable goals utilized by KDOT to comply with the permit. The program will focus on educating the public and KDOT community on stormwater pollution and environmental stewardship. KDOT continues to comply with state and local public notice requirements when implementing its public involvement and participation program.

Reference Table 2.1 below for a list of available BMPs for implementation and their respective descriptions.

**Table 2.1 - Available BMPs**

Lbmp PI&P	KDOT Applicability		Description
	Existing	Future	
01	No	No	Hold a forum to notify the public about stormwater program activities and to solicit comments
02	No	No	Establish a citizens advisory committee
03	Yes	Yes	Hold stream bank clean-up events for public volunteers to aid in removing trash and debris
04	Yes	Yes	Train citizen watch groups to recognize illicit discharges
05	Yes	Yes	Provide at least two events for residents to engage in cleanup activities
06	No	No	Establish a program to encourage residents to install BMPs
07	No	No	Enact enforceable requirement that requires pet owners to properly dispose of waste
08	No	No	Provide monetary donation to a scholarship fund for students pursuing a degree in an environmental program
09	Yes	Yes	Distribute stormwater educational materials to the public
10	No	No	Establish an environmental student internship program related to water or waste utility

BMPs identified as applicable to KDOT are described in the following subsections.

## Lbmp PI&P - 03: Hold Stream Bank Clean-Up Events for Public Volunteers to Aid in Removing Trash and Debris

*Measurable Goal: Area cleaned must be equal to or greater than 1 acre or at least 200 yards of streambank*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT offers the following program to address litter and debris along Kansas highways:

### ***Adopt-a-Highway***

Established in 1989, KDOT's Adopt-a-Highway program encourages citizens to volunteer to pick up litter and trash along state highways. Volunteers are required to pick up litter at least three times for a two-year period. Participants range from families to organizations such as youth groups, businesses, etc. Two-mile segments are the most common, but three-mile and one-mile segments are also an option depending on if it's an urban or rural setting.

Interested groups must complete an application and a release form. Signed by all participants within each group, the release form requires volunteers to agree to remove litter and trash a minimum of three times a year for a two-year period. The release form is then submitted to the nearest KDOT office. Groups who wish to reapply must complete a renewal form.

Additional information regarding the program, including the application form, renewal form, and safety video, can be found here: <https://www.ksdot.org/bureaus/burMaint/Adoptahighway.asp>.

### ***2021 Annual Report Update***

During the permit year 2021, Adopt-a-Highway has 41 active groups.

Table 2.2 summarizes Adopt-a-Highway program activity for the permit period.

***Table 2.2 - 2021 Summary of Adopt-a-Highway Program Activity***

<b>Urbanized Area</b>	<b>Adopt-A-Highway Number of Groups</b>
Kansas City	13
St. Joseph	2
Lawrence	5
Topeka	7
Manhattan	7
Wichita	7

## Lbmp P I/P – 04: Train groups to recognize illicit discharge activities and communicate observations to appropriate staff

*Measurable Goal: Provide training or distribute training materials to participants at least once annually.*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

### ***Stormwater Awareness Training***

All KDOT maintenance staff are required to complete the Stormwater Awareness Training on an annual basis. This training is available through KDOT’s Learning Management Center.

### ***Spill Prevention, Control, and Countermeasure (SPCC) Plan Training***

SPCC Plan training is available to KDOT employees through the Learning Management Center. The purpose of this training is to provide guidance to KDOT employees regarding oil spills and preventing spills from discharging into Waters of the US.

### ***Facility Training***

For employees located at KDOT facilities, training during the permit period will be provided to disseminate knowledge regarding stormwater pollution prevention as part of a respective facility. This training focuses on sediment and erosion control, spill prevention and cleanup methods, and good housekeeping measures

### ***2021 Annual Report Update***

The annual Stormwater Awareness Training is available through the KDOT Learning Management Center. The training must be completed by December 31<sup>st</sup>. Table 2.3 summarizes participation in the training for 2021.

**Table 2.3 - Summary of Stormwater Awareness Training Participation, 2021**

KDOT Facility	Total Participants Completing Training
District 1	228
District 2	169
District 3	140
District 4	183
District 5	194
District 6	105
Headquarters	48
Inactive Employment	35
<b>Grand Total</b>	<b>1,102</b>

The Spill Prevention, Control, and Countermeasure (SPCC) Plan Training was held as part of safety meetings at each Area during 2021.

## Lbmp PI&P - 05: Provide at Least Two Events for Residents to Engage in Cleanup Activities

*Measurable Goal: Host at least two events annually in streams, parks, areas adjacent to public waterways, etc.*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT offers the following programs to address litter and debris along Kansas highways:

### **Adopt-a-Highway**

Established in 1989, KDOT's Adopt-a-Highway program encourages citizens to volunteer to pick up litter and trash along state highways. Volunteers are required to pick up litter at least three times for a two-year period. Participants range from families to organizations such as youth groups, businesses, etc. Two-mile segments are the most common, but three-mile and one-mile segments are also an option depending on if it's an urban or rural setting.

Interested groups must complete an application and a release form. Signed by all participants within each group, the release form requires volunteers to agree to remove litter and trash a minimum of three times a year for a two-year period. The release form is then submitted to the nearest KDOT office. Groups who wish to reapply must complete a renewal form.

Additional information regarding the program, including the application form, renewal form, and safety video, can be found here: <https://www.ksdot.org/bureaus/burMaint/Adoptahighway.asp>.

### **Sponsor-a-Highway**

KDOT's Sponsor-a-Highway program allows business to advertise their company name and logo within view of commuters. In return, the money raised from sponsorships funds litter removal on state highways. It ultimately results in cleaner and improved highways. Benefits of participating in this program include recognition as environmental supporters who support community responsibility.

Additional information regarding the program can be found here: <https://www.ksdot.org/bureaus/burMaint/sponsorahighway.asp>.

### **2021 Annual Report Update**

During the permit year 2021, Adopt-a-Highway has 41 active groups and Sponsor-a-Highway has 24 active participants. Table 2.4 summarizes litter program activity for the permit period.

**Table 2.4 - 2021 Summary of Program Activity**

Urbanized Area	Adopt-A-Highway Number of Groups	Sponsor-A-Highway Number of Groups
Kansas City	13	17
St. Joseph	2	0
Lawrence	5	1
Topeka	7	3
Manhattan	7	0
Wichita	7	3

## Lbmp PI&P - 09: Distribute Stormwater Educational Materials to the Public

*Measurable Goal: Educational materials must have a value of at least \$50*

### ***Illicit Discharge Awareness***

KDOT works to educate the public on the importance of minimizing stormwater impacts by providing resources on the KDOT website. Both a 30-second and 10-minute Illicit Discharge Awareness videos are available to the public through KDOT's website:

<https://www.ksdot.org/bureaus/burMaint/StormWater/default.asp>.

Topics discussed in the Illicit Discharge Awareness video include:

- ▶ Storm sewer purpose
- ▶ Storm sewer vs sanitary sewers
- ▶ Spotting illicit discharges
- ▶ Ecological impacts
- ▶ How to report illicit discharges

### ***Stormwater Awareness Training***

All KDOT maintenance staff are required to complete the Stormwater Awareness Training on an annual basis. This training is available through KDOT's Learning Management Center.

### ***Adopt-a-Highway***

KDOT developed a brochure to educate the public about the Adopt-a-Highway program. This brochure provides information to help keep participants safe while volunteering to keep Kansas clean. Topics highlighted in this brochure include the following:

- ▶ What can I do?
- ▶ Be on the alert
- ▶ What to wear
- ▶ Things not to do
- ▶ Helpful hints
- ▶ Weather

The Adopt-a-Highway brochure is available to the public via KDOT's Adopt-a-Highway program webpage here: <https://www.ksdot.org/Assets/wwwksdotorg/bureaus/burConsMain/Adopt-A-Highway-2011-Letter-for-web.pdf>.

### ***2021 Annual Report Update***

KDOT continues to offer both the 30-second and 10-minute Illicit Discharge Awareness videos in English and Spanish on KDOT's website. Reference the list below for the cost to complete, labor involved, and link for both videos:

- ▶ 30-second video:

- Cost to complete: \$895
- Labor: 20 hours
- Link: <https://www.ksdot.org/bureaus/burMaint/StormWater/default.asp>
- ▶ 10-minute video:
  - Cost to complete: \$895
  - Labor: 20 hours
  - Link: <https://www.ksdot.org/bureaus/burMaint/StormWater/MS4PubEd.asp>

For the 2021 permit year, KDOT made the Adopt-a-Highway brochure available to the public here: <https://www.ksdot.org/Assets/wwwksdotorg/bureaus/burConsMain/Adopt-A-Highway-2011-Letter-for-web.pdf>. The cost to complete was approximately \$50 and required 10 hours of labor.

The annual Stormwater Awareness Training is available through the KDOT Learning Management Center. The training must be completed by December 31<sup>st</sup>. Table 2.5 summarizes participation in the training for 2021.

**Table 2.5 - Summary of Stormwater Awareness Training Participation, 2021**

KDOT Facility	Total Participants Completing Training
District 1	228
District 2	169
District 3	140
District 4	183
District 5	194
District 6	105
Headquarters	48
Inactive Employment	35
<b>Grand Total</b>	<b>1,102</b>

# Kansas Department of Transportation

## Stormwater Management Plan



Minimum Control Measure:  
MCM2: Public Involvement & Participation

Permit Year:  
2021

BMP	Summary	Measurable Goal	KDOT Availability		Reference	How to Report	Claimed	
			Applicable	Points			2021	Points
Lbmp P I/P - 03	Hold park or stream bank clean-up events for public volunteers to aid in removing trash, debris, or pollutant sources from the selected clean-up area.	Area cleaned must be equal to or greater than 1 acre or at least 200 yards of streambank.  1 activity per year.	Yes	3	<u>Adopt-a-Highway</u> -Yearly announcement encouraging people to sign up -Litter cleanup	1. <u>Stormwater Management Plan:</u> -Include program descriptions  2. Annual Report: -Provide # of active groups -Manage a log that includes active volunteer groups and their assigned highway segments	<input type="checkbox"/>	3
Lbmp P I/P - 04	Train either citizen watch groups, HOAs, or public service groups to recognize illicit discharge activities and communicate observations to appropriate staff.	Provide training or distribute training materials to the group participants at least once annually.	Yes	2	<u>Training</u> -Stormwater Awareness Training -Spill Prevention, Control, and Countermeasure Plan Training -Facility Training	1. Stormwater Management Plan: -Stormwater Training course -Describe internal trainings  2. Annual Report: -Stormwater Awareness Training (attendees) -SPCC Training (dates held)	<input checked="" type="checkbox"/>	2
Lbmp P I/P - 05	Provide at least two events for residents to engage in cleanup activities and improve water quality.	At least two events annually in streams, parks, areas adjacent to public waterways, and/or other green infrastructure/water resources. These events can be: Environmental restoration events, stream cleanups, tree plantings, or stream monitoring.	Yes	3	<u>Adopt-a-Highway</u> -Yearly announcement encouraging people to sign up -Litter cleanup  <u>Sponsor-a-Highway</u> -Businesses pay a monthly fee to advertise on highway -Fee covers picking up trash	1. <u>Stormwater Management Plan:</u> -Include program descriptions  2. Annual Report: -Provide # of active groups for both programs -Manage a list of active groups	<input checked="" type="checkbox"/>	3

Lbmp P I/P - 09	Distribute stormwater educational materials to the public within this permit area.  Alternatively, may provide stormwater educational materials. These materials may be provided to other nearby municipalities for distribution to the public. (within 30 miles from this permit area).	Educational materials must have a value of at least \$50	Yes	3	<a href="#">Illicit Discharge Awareness Video 30-second (English/Spanish)</a>	1. <u>Stormwater Management Plan:</u> -Describe purpose and content of Illicit Discharge video -Describe the purpose of the brochure  2. <u>Annual Report:</u> - <b>Videos:</b> include cost to complete, labor, and links to the videos - <b>Brochure:</b> include cost to complete, labor, and link to the brochure -Save a pdf copy of the brochure	<input checked="" type="checkbox"/>	3
					<a href="#">Illicit Discharge Awareness Video 10-minute (English/Spanish)</a>		<input checked="" type="checkbox"/>	
					<a href="#">Adopt-a-Highway Brochure</a>		<input type="checkbox"/>	

2021 - Public Involvement Summary	
Available Points	11
Requirement	3
Claimed Points	11
Meets Requirements	Yes

KDOT - Litter Pickup Programs				
MS4	Adopt-A-Highway	Sponsor-A-Highway	IBS - Litter Removal Service	Honor Camp - Prison Work Group
Kansas City	13	17	54.7 miles clean both directions (twice a month cycle)	
St. Joseph	2			
Lawrence	5	1		
Topeka	7	3		1 Crew (5 days/wk)
Manhattan	7			
Wichita	7	3		2 Crew (5 days/wk)

\* Honor Camp - KDOT provides the Van, trailer, safety equipment and covers the guards salary for each crew.

# Adopt - A - Highway

HELPING TO KEEP KANSAS CLEAN

*Safety Tips • Adopting • Participating*



In the city or in the country, along the highway or throughout the parks littering can be a costly and unsightly problem.

## Litter can do the following:

- Pollute the land and waterways of Kansas
- Harm animals and vegetation
- Take away from the beauty of the state

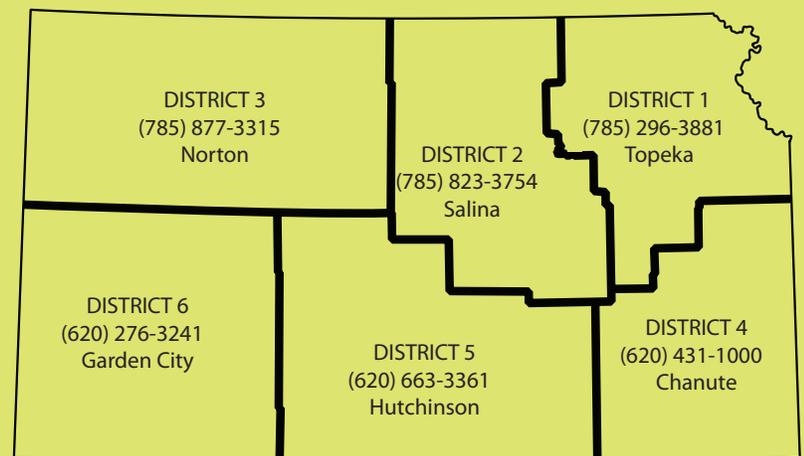
## WHAT CAN I DO?

- ♦ Be active in helping to keep your town or community clean.
- ♦ Recycle aluminum, glass, paper and plastic.
- ♦ Buy recycled materials whenever possible.
- ♦ Don't throw litter out of vehicles.
- ♦ Join KDOT's Adopt-A-Highway program or other local anti-litter organizations.

## HOW DO I JOIN?

- ♦ Any non-profit group that does not discriminate on the basis of race, religion, color or sex can participate in the Kansas Department of Transportation's Adopt-A-Highway program by calling your District office.

**NOTE:** This form is available in alternative accessible formats. To obtain an alternative format, contact the KDOT Bureau of Transportation Information, Eisenhower State Office Building, 2nd Floor, Topeka, Kansas 66603-3754, or phone (785) 296-3585 (Voice)/(Hearing Impaired -711).



*Thanks for participating in the Adopt-A-Highway program! This brochure provides information to help you have a safe and enjoyable time while working to keep Kansas roadways clean.*

## WHAT CAN I DO?

- ♦ Only pick up trash and litter.
- ♦ Car pool to reduce number of vehicles and park only in recommended areas.
- ♦ Work one side of highway at a time.
- ♦ Work only during daylight hours.
- ♦ Avoid contact with poisonous plants.
- ♦ Have a first aid kit and transportation available in case of emergency.

## BE ON THE ALERT

- ♦ Notify nearest KDOT office, the Kansas Highway Patrol or the police of suspected toxic/hazardous substances or dead animals DO NOT try to remove.
- ♦ Be alert for places where snakes may be located such as around logs, rocky area and tall grass. Avoid these areas.
- ♦ Fill sack with what goes in easily. Do not squeeze trash sacks to make room. This could result in injuries from broken or jagged objects.
- ♦ Stay clear of any maintenance or construction activities.
- ♦ Stay off roadway and paved or unpaved shoulder area, to pick up litter.

## WHAT TO WEAR

- ♦ Wear light-colored clothing and your safety vest at all times.
- ♦ Wear heavy gloves. Do not pick up discarded syringes or hypodermic needles.
- ♦ Wear substantial leather shoes or boots with ankle support. Stay off steep slopes and watch your footing.
- ♦ Wear a hat and consider using sunscreen and insect repellent.
- ♦ Wear long-sleeved shirts when temperatures allow.

## THINGS NOT TO DO

- ♦ **Do not allow children or pets at the litter pick up area or leave them in parked vehicles.**
- ♦ Do not mow or trim shrubs/weeds.
- ♦ Do not carry firearms, machetes or axes.
- ♦ Do not cross traveled sections of roadway.
- ♦ Do not pick up litter on bridges, underpasses, or overpasses.
- ♦ Do not use headsets or cell phones.

## HELPFUL HINTS

- ♦ Face oncoming traffic while you work. Be prepared to move out of the way of the vehicles in an emergency.
- ♦ Avoid overexertion.
- ♦ Have a refresher session on safety awareness each time a crew goes out.
- ♦ Crew members should have the following minimum qualifications:
  - Good physical condition, including sight and hearing.
  - Mental alertness.
  - A sense of responsibility for safety of public and crew.
  - A willingness to use good common sense.
  - Must be at least 11 years old.

## WEATHER

- ♦ Discontinue work in inclement weather, especially in times of reduced visibility and wet or icy roads.
- ♦ Be cautious of dry conditions. Be alert to fire hazards and do not smoke while working.
- ♦ Take breaks, especially when it's warm. Drink plenty of water, especially on warm days.
- ♦ Try to schedule clean-up times in the morning when it's cooler and visibility is better.

## MCM3: Illicit Discharge Detection and Elimination

KDOT shall develop, implement, and enforce a program to detect and eliminate illicit discharges within KDOT maintained right-of-way. This program will focus on informing KDOT employees regarding awareness, identification, and reporting of detected illicit discharges. KDOT continues to maintain maps and records of the stormwater system within KDOT maintained right-of-way.

Reference Table 3.1 below for a list of available BMPs for implementation and their respective descriptions.

**Table 3.1 - Available BMPs**

Lbmp IDD&E	KDOT Applicability		Description
	Existing	Future	
01	No	Yes	Hold a public forum to educate public regarding illicit discharge
02	No	No	Implement a program to abandon, upgrade, or replace septic systems
03	Yes	Yes	Develop spill response plan
04	Yes	Yes	Implement a program to evaluate MS4 outfalls
05	No	No	Distribute documentation to residents & businesses in MS4 area
06	Yes	Yes	Inspect 2% of open channel drainage
07	Yes	Yes	Document household hazardous waste collection programs
08	No	No	Implement program to increase reliability of sanitary sewer pump stations
09	Yes	Yes	Provide contribution to area recycle programs
10	Yes	Yes	Inspect 5% of MS4 system inlets and/or outfalls

BMPs identified as applicable to KDOT are described in the following subsections.

## **Ldmp IDD&E - 01: Hold a Public Forum to Educate Public Regarding Illicit Discharge**

*Measurable Goal: Provide public notice, document with sign-in sheet and minutes*

For this BMP to be applicable in a linear transportation setting, KDOT assumes applicability in the following paragraph.

During the permit duration, KDOT will identify opportunities to partner with local communities to provide funding for litter cleanups. KDOT will utilize social media to document cleanup events. The social media post will be described in the Annual Report.

### ***2021 Annual Report Update***

This BMP was not utilized during the reporting period.

## **Ldmp IDD&E - 03: Develop Spill Response Plan**

*Measurable Goal: Explanation of appropriate spill response activities*

KDOT is committed to identifying and eliminating illicit discharges. Staff are trained to report observed illicit discharge present in the highway right-of-way to their supervisor. The Spill Prevention, Control, and Countermeasure (SPCC) Plan Training is held as part of safety meetings at each Area. Illicit discharges may be observed during weekly dashboard surveys, and would likely be in the form of a right-of-way spill. The supervisor would then report the discharge to the Area Superintendent to address. Each Area maintenance yard has a formal spill response plan. Large spills in the Area yard are reported to KDHE's Spill Reporting Hot Line by calling 785-291-3333 in accordance with the Kansas Spill Notification Plan.

Spills that occur within the right-of-way are typically reported through first responders. The local fire department coordinates spill containment activity. If contacted by first responders, KDOT can assist with containment activities, such as barriers, on request.

### **2021 Annual Report Update**

KDOT continued spill response plans for Area yards.

## Ldmp IDD&E - 04: Implement a Program to Evaluate MS4 Outfalls

*Measurable Goal: Inspect at least 5% of the known MS4 outfalls, eliminate illicit discharge from at least one identified outfall*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT tracks inspections for structures classified as bridges, 10'-20' Series, and structures with openings less than 10-feet. The following software programs are utilized to track inspections of MS4 outfalls:

- ▶ Bridge Management
- ▶ BROMS (Bridge Office Management System)
- ▶ MQA (Maintenance Quality Assurance)

The inspections are then recorded in KDOT's Reports Portal.

At the date of this SMP, the following structure descriptions and software programs are as follows:

### **Bridges**

Bridges are classified as structures that have an opening of 20-feet or greater. Inspections are documented through both the BROMS and Bridge Management software. Reference Table 3.2 for bridge inspection frequencies.

**Table 3.2 – Bridge Inspection Frequencies**

Rating	Rating Description	Inspection Frequency
4-	Poor Condition	Annually
5+	Great Condition	Every 2 years

### **10'-20' Series**

Pipes and culverts greater than or equal to 10-feet but less than 20-feet are classified as 10'-20' Series structures. Inspections are documented through BROMS. Reference Table 3.3 for culvert inspection frequencies.

**Table 3.3 – Culvert Inspection Frequencies**

Rating	Rating Description	Inspection Frequency
4	Poor Condition	Annually
6	Good Condition	Every 2 years
8	Great Condition	Every 4 years

### **MQA Software**

The purpose of the MQA program is to identify and prioritize maintenance projects and resources. According to the Maintenance Quality Assurance Program Manual (page 28), thirty 0.1-mile sample segments per maintenance subarea are randomly selected using the CANSYS database and rated against a level of service (LOS) criteria. These inspections occur annually in October. Upon completion, KDOT compares the resulting LOS to the target LOS values. The five maintenance categories include travelway, traffic guidance, shoulders, drainage, and roadside.

Drainage is broken up into the following elements: curb & gutter, ditch, erosion control devices, culverts & pipes (excludes serial numbered structures), edge & underdrains, and inlets. A weighting factor of 14% is applied to drainage when determining the LOS. The statewide/district targeted LOS for drainage is 85.

For ditches to pass inspection, 80% of the ditch length must be free of scour more than six inches, blockage, standing water, and obstructions.

For culverts & pipes to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of opening is unobstructed
- ▶ Functions as intended (check for erosion, scour, settlement at structure inlets and outlets)

For inlets to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of cavity per structure is free of debris & operates as intended
- ▶ The inlet grate and access cover are present, where applicable
- ▶ The unit is structurally sound

Inspections are documented through the MQA inspection form. The purpose of the form is to record whether each element meets the associated LOS criteria. Upon completion, copies of these forms are sent to District MQA committee members and Area Superintendent. The inspection results are reported into KDOT's Report Portals. Original copies of the form are maintained for one-year.

### ***Future Effort***

For the duration of the permit, KDOT will upgrade their Transportation Planning – State System Map to the Stormwater Management Map through the ArcGIS platform. In addition to providing information regarding bridges and 10'-20' Series, this platform will contain culverts with openings less than 10-feet, stormwater infrastructure, etc. Each structure will include the latest inspection information.

### ***2021 Annual Report Update***

Table 3.4 contains information regarding the total structure inspections that occurred in 2021 against the total structures in each urbanized area. This data was pulled from KDOT's Reports Portal on October 4, 2021. Reference the attached data for the raw data exported from the Reports Portal. Inspections will be ongoing through 2021.

***Table 3.4 – 2021 Structure Inspections per Urbanized Area (October 4, 2021)***

<b>Urbanized Area</b>	<b>County</b>	<b>Total Inspections</b>	<b>Total Structures</b>	<b>Percentage</b>
Kansas City	Wyandotte	196	442	44.34%
Lawrence	Douglas	6	417	1.44%
Manhattan	Riley	6	294	2.04%
St. Joseph	Doniphan	29	177	16.38%
Topeka	Shawnee	9	703	1.28%
Wichita	Sedgwick	9	1,705	0.53%

KDOT manages a report of MQA program roadway segments completed annually. This list for 2021 is provided in the documentation for each urbanized area.

## Ldmp IDD&E - 06: Inspect 2% of Open Channel Drainage

*Measurable Goal: Generate a summary report of open channel inspections, which should include the number of linear feet inspected, condition comments, and the results of efforts to eliminate illicit discharges*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT tracks inspections for structures classified as bridges, 10'-20' Series, and structures with openings less than 10-feet. The following software programs are utilized to tracks inspections of open channels:

- ▶ Bridge Management
- ▶ BROMS (Bridge Office Management System)
- ▶ MQA (Maintenance Quality Assurance)

The inspections are then recorded in KDOT's Reports Portal.

Each district completes weekly dashboard surveys of the right-of-way to identify and address issues.

At the date of this SMP, the following structure descriptions and software programs are as follows:

### ***Bridges***

Bridges are classified as structures that have an opening of 20-feet or greater. Inspections are documented through both the BROMS and Bridge Management software. Reference Table 3.5 for bridge inspection frequencies.

**Table 3.5 – Bridge Inspection Frequencies**

Rating	Rating Description	Inspection Frequency
4-	Poor Condition	Annually
5+	Great Condition	Every 2 years

### ***10'-20' Series***

Pipes and culverts greater than or equal to 10-feet but less than 20-feet are classified as 10'-20' Series structures. Inspections are documented through BROMS. Reference Table 3.6 for culvert inspection frequencies.

**Table 3.6 – Culvert Inspection Frequencies**

Rating	Rating Description	Inspection Frequency
4	Poor Condition	Annually
6	Good Condition	Every 2 years
8	Great Condition	Every 4 years

### ***MQA Software***

The purpose of the MQA program is to identify and prioritize maintenance projects and resources. According to the Maintenance Quality Assurance Program Manual (page 28), thirty 0.1-mile sample segments per maintenance subarea are randomly selected using the CANSYS database and rated against

a level of service (LOS) criteria. These inspections occur annually in October. Upon completion, KDOT compares the resulting LOS to the target LOS values. The five maintenance categories include travelway, traffic guidance, shoulders, drainage, and roadside.

Drainage is broken up into the following elements: curb & gutter, ditch, erosion control devices, culverts & pipes (excludes serial numbered structures), edge & underdrains, and inlets. A weighting factor of 14% is applied to drainage when determining the LOS. The statewide/district targeted LOS for drainage is 85.

For ditches to pass inspection, 80% of the ditch length must be free of scour more than six inches, blockage, standing water, and obstructions.

For culverts & pipes to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of opening is unobstructed
- ▶ Functions as intended (check for erosion, scour, settlement at structure inlets and outlets)

For inlets to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of cavity per structure is free of debris & operates as intended
- ▶ The inlet grate and access cover are present, where applicable
- ▶ The unit is structurally sound

Inspections are documented through the MQA inspection form. The purpose of the form is to record whether each element meets the associated LOS criteria. Upon completion, copies of these forms are sent to District MQA committee members and Area Superintendent. The inspection results are reported into KDOT's Report Portals. Original copies of the form are maintained for one-year.

### ***Future Effort***

For the duration of the permit, KDOT will upgrade their Transportation Planning – State System Map to the Stormwater Management Map through the ArcGIS platform. In addition to providing information regarding bridges and 10'-20' Series, this platform will contain culverts with openings less than 10-feet, stormwater infrastructure, etc. Each structure will include the latest inspection information.

### ***2021 Annual Report Update***

Table 3.7 contains information regarding the total structure inspections that occurred in 2021 against the total structures in each urbanized area. This data was pulled from KDOT's Reports Portal on October 4, 2021. Reference the attached data for the raw data exported from the Reports Portal. Inspections will be ongoing through 2021.

**Table 3.7 – 2021 Structure Inspections per Urbanized Area**

<b>Urbanized Area</b>	<b>County</b>	<b>Total Inspections</b>	<b>Total Structures</b>	<b>Percentage</b>
Kansas City	Wyandotte	196	442	44.34%
Lawrence	Douglas	6	417	1.44%
Manhattan	Riley	6	294	2.04%
St. Joseph	Doniphan	29	177	16.38%
Topeka	Shawnee	9	703	1.28%
Wichita	Sedgwick	9	1,705	0.53%

KDOT manages a report of MQA program roadway segments completed annually. This list for 2021 is provided in the documentation for each urbanized area.

Weekly dashboard surveys were performed to identify and address issues on each route within the urbanized area.

## Ldmp IDD&E - 07: Document Household Hazardous Waste Collection Programs

*Measurable Goal: Document that residents and property owners have access to a facility*

The following Household Hazardous Waste Collection Programs are listed below in Table 3.8 per urbanized area and are available as of the date of this SMP:

**Table 3.8 – Household Hazardous Waste Facilities and Events**

Urbanized Area	Permit No.	County	Type	Date	Website
Kansas City	M-KS27-SU01	Johnson	HHW Facility	N/A	<a href="#">Link</a>
		Wyandotte	HHW Facility	N/A	<a href="#">Link</a>
Lawrence	M-KS31-SU02	Douglas	HHW Facility	N/A	<a href="#">Link</a>
Manhattan	M-KS38-SN01	Riley	HHW Facility	N/A	<a href="#">Link</a>
St. Joseph	M-MO05-SU01	Doniphan	Event	3/18/2021	<a href="#">Link</a>
Topeka	M-KS72-SU02	Shawnee	HHW Facility	N/A	<a href="#">Link</a>
Wichita	M-AR94-SU02	Sedgwick	HHW Facility	N/A	<a href="#">Link</a>

In Districts 1 and 5, batteries are returned 1:1 through the purchasing and parts department. At each district, a vendor is contracted by KDOT to recycle oil

### **2021 Annual Report Update**

For the 2021 permit year, Kansas City, Lawrence, Manhattan, Topeka, and Wichita offered household hazardous waste collection locations. All continue to be active. Doniphan County, in the St. Joseph urbanized area, offered a household hazardous waste collection on Thursday, March 18, 2021.

KDOT manages a PDF copy of these websites as part of the supporting documents for this BMP.

For used oil recycling, KDOT managed copies of the receipts when working with outside vendors.

## Ldmp IDD&E - 09: Provide Contribution to Area Recycle Programs

*Measurable Goal: Can be monetary or in the form of goods and/or services*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT offers three programs to address litter and debris along Kansas highways:

### ***Interstate Services***

KDOT hires contractors to pick up debris and litter along KDOT roadways in the Kansas City urbanized area.

### ***Adopt-a-Highway***

Established in 1989, KDOT's Adopt-a-Highway program encourages citizens to volunteer to pick up litter and trash along state highways. Volunteers are required to pick up litter at least three times for a two-year period. Participants range from families to organizations such as youth groups, businesses, etc. Two-mile segments are the most common, but three-mile and one-mile segments are also an option depending on if it's an urban or rural setting.

Interested groups must complete an application and a release form. Signed by all participants within each group, the release form requires volunteers to agree to remove litter and trash a minimum of three times a year for a two-year period. The release form is then submitted to the nearest KDOT office. Groups who wish to reapply must complete a renewal form.

Additional information regarding the program, including the application form, renewal form, and safety video, can be found here: <https://www.ksdot.org/bureaus/burMaint/Adoptahighway.asp>.

### ***Sponsor-a-Highway***

KDOT's Sponsor-a-Highway program allows business to advertise their company name and logo within view of commuters. In return, the money raised from sponsorships funds litter removal on state highways. It ultimately results in cleaner and improved highways. Benefits of participating in this program include recognition as environmental supporters who support community responsibility.

Additional information regarding the program can be found here: <https://www.ksdot.org/bureaus/burMaint/sponsorahighway.asp>.

### ***2021 Annual Report Update***

In June 2021, KDOT contracted Interstate Business Solutions (IBS) to remove litter and debris from KC metro roadways. Throughout June and July, efforts were focused on I-435 in Johnson County and I-35, US69, and I-635 in Wyandotte County. As of September 17, 2021, IBS collected more than 106,000 pounds of litter and debris along these routes. On an average day, eight miles are covered and nearly 110 trash bags are filled. Items collected include (but are not limited to) televisions, iPads, diaper bags, and 5,000 nitrile gloves.

More information regarding this service can be found here: [Litter Removal and Sweeping Services Clean up KC Metro Roadways](#). IBS's contract is active for the next 5 years. The annual cost for services is \$754,860.

During the permit year 2021, Adopt-a-Highway has 41 active groups and Sponsor-a-Highway has 24 active participants. Table 3.9 summarizes litter program activity for the permit period.

**Table 3.9 - 2021 Summary of Litter Program Activity**

<b>Urbanized Area</b>	<b>Adopt-A-Highway Number of Groups</b>	<b>Sponsor-A-Highway Number of Groups</b>	<b>IBS Litter Removal</b>	<b>Honor Camp – Prison Work Group*</b>
Kansas City	13	17	54.7 miles (clean both directions, 2x/mo)	NA
St. Joseph	2	0	NA	NA
Lawrence	5	1	NA	NA
Topeka	7	3	NA	1 crew (5 days/wk)
Manhattan	7	0	NA	NA
Wichita	7	3	NA	2 crews (5 days/wk)

*\*KDOT provides the van, trailer, safety equipment, and reimburses the guard's salary for each crew.*

## Ldmp IDD&E - 10: Inspect 5% of MS4 System Inlets and/or Outfalls

*Measurable Goal: Generate a summary report of inlet and outfall inspections, which should include the number of inlets/outfalls inspected, condition comments, illicit discharges identified, and the results of efforts to eliminate illicit discharges*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT tracks inspections for structures classified as bridges, 10'-20' Series, and structures with openings less than 10-feet. The following software programs are utilized to tracks inspections of MS4 inlets and outfalls:

- ▶ Bridge Management
- ▶ BROMS (Bridge Office Management System)
- ▶ MQA (Maintenance Quality Assurance)

The inspections are then recorded in KDOT's Reports Portal.

At the date of this SMP, the following structure descriptions and software programs are as follows:

### **Bridges**

Bridges are classified as structures that have an opening of 20-feet or greater. Inspections are documented through both the BROMS and Bridge Management software. Reference Table 3.10 for bridge inspection frequencies.

**Table 3.10 – Bridge Inspection Frequencies**

Rating	Rating Description	Inspection Frequency
4-	Poor Condition	Annually
5+	Great Condition	Every 2 years

### **10'-20' Series**

Pipes and culverts greater than or equal to 10-feet but less than 20-feet are classified as 10'-20' Series structures. Inspections are documented through BROMS. Reference Table 3.11 for culvert inspection frequencies.

**Table 3.11 – Culvert Inspection Frequencies**

Rating	Rating Description	Inspection Frequency
4	Poor Condition	Annually
6	Good Condition	Every 2 years
8	Great Condition	Every 4 years

### **MQA Software**

The purpose of the MQA program is to identify and prioritize maintenance projects and resources. According to the Maintenance Quality Assurance Program Manual (page 28), thirty 0.1-mile sample segments per maintenance subarea are randomly selected using the CANSYS database and rated against a level of service (LOS) criteria. These inspections occur annually in October. Upon completion, KDOT

compares the resulting LOS to the target LOS values. The five maintenance categories include travelway, traffic guidance, shoulders, drainage, and roadside.

Drainage is broken up into the following elements: curb & gutter, ditch, erosion control devices, culverts & pipes (excludes serial numbered structures), edge & underdrains, and inlets. A weighting factor of 14% is applied to drainage when determining the LOS. The statewide/district targeted LOS for drainage is 85.

For ditches to pass inspection, 80% of the ditch length must be free of scour more than six inches, blockage, standing water, and obstructions.

For culverts & pipes to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of opening is unobstructed
- ▶ Functions as intended (check for erosion, scour, settlement at structure inlets and outlets)

For inlets to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of cavity per structure is free of debris & operates as intended
- ▶ The inlet grate and access cover are present, where applicable
- ▶ The unit is structurally sound

Inspections are documented through the MQA inspection form. The purpose of the form is to record whether each element meets the associated LOS criteria. Upon completion, copies of these forms are sent to District MQA committee members and Area Superintendent. The inspection results are reported into KDOT's Report Portals. Original copies of the form are maintained for one-year.

### ***Future Effort***

For the duration of the permit, KDOT will upgrade their Transportation Planning – State System Map to the Stormwater Management Map through the ArcGIS platform.

### ***2021 Annual Report Update***

Table 3.12 contains information regarding the total structure inspections that occurred in 2021 against the total structures in each urbanized area. This data was pulled from KDOT's Reports Portal on October 4, 2021. Reference the attached data for the raw data exported from the Reports Portal. Inspections will be ongoing through 2021.

***Table 3.12 – 2021 Structure Inspections per Urbanized Area***

<b>Urbanized Area</b>	<b>County</b>	<b>Total Inspections</b>	<b>Total Structures</b>	<b>Percentage</b>
Kansas City	Wyandotte	196	442	44.34%
Lawrence	Douglas	6	417	1.44%
Manhattan	Riley	6	294	2.04%
St. Joseph	Doniphan	29	177	16.38%
Topeka	Shawnee	9	703	1.28%
Wichita	Sedgwick	9	1,705	0.53%

KDOT manages a report of MQA program roadway segments completed annually. This list for 2021 is provided in the documentation for each urbanized area.

# Kansas Department of Transportation

## Stormwater Management Plan



Minimum Control Measure:  
MCM3: *Illicit Discharge*

Permit Year:  
2021

BMP	Summary	Measurable Goal	KDOT Availability		Reference	How to Report	Claimed		
			Applicable	Points			2021	Points	
Lbmp IDD&E - 03	Develop a spill response plan, and if appropriate, coordinate emergency response with other agencies or organizations.	<p>Plan: Explanation of appropriate spill response activities for spills associated with vehicle accidents, at grade or above ground storage tanks, and vehicle fluids from mechanical equipment</p> <p>Plan shall be maintained on file.</p>	Yes	3	<p><a href="#">KDOT Stormwater Management Plan</a></p> <p><a href="#">KDOT Stormwater Management Program Website</a></p>	<p>1. <u>Stormwater Management Plan:</u> - Spill response plan description</p> <p>2. <u>Annual Report:</u> -Description of spill response</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3
Lbmp IDD&E - 04	Implement a <b>program</b> to evaluate MS4 outfalls to identify illicit discharges. Inspect at least 5% of the known MS4 outfalls during a calendar year; evaluate outfalls with dry weather discharges; evaluate the water quality of the dry weather discharges to recognize non-stormwater sources.	<p>When at least 5% of the known MS4 outfalls are inspected and for which at least one outfall has illicit discharge:</p> <p>Document: -MS4 Outfalls inspected; -outfalls with dry weather discharge; -outfalls with illicit discharge</p> <p>Points claimed in the year the discharge is eliminated.</p>	Yes	1	<p><u>Reports Portal:</u></p> <p><u>Bridges:</u> -Bridges are inspected every 2 years Bridges rated 4 are inspected annually</p> <p><u>10'-20' Series:</u> -Culverts are inspected every 4 years -Culverts rated a 6 are inspected every 2 years -Culverts rated a 4 are inspected annually</p> <p><u>MQA Software:</u> -0.1-mile segments -Drainage: 14% WF -Ditch, culverts/pipes, inlets, etc.</p>	<p>1. <u>Stormwater Management Plan:</u> -Include program descriptions</p> <p>2. <u>Annual Report</u> -Update <i>Structure Inspections per Urbanized area</i> table -Describe and save MQA List</p>	<input checked="" type="checkbox"/>		1

<p>Lbmp IDD&amp;E - 06</p>	<p>Inspect, by televising pipelines or direct visualization of open channel drainage, 2% of the MS4 system within the permit area. Aid in identifying illicit discharges as well as evaluate the condition of the storm sewer lines/drainage channels-ditches.</p> <p>If in a 12-mo period 10% of the MS4 system is inspected a higher point value may be claimed.</p>	<p>Generate Summary Report:          -LF televised or visually inspected          -Condition comments          -Illicit discharges identified          -Results of efforts to eliminate illicit discharges</p>	<p>Yes</p>	<p>3</p>	<p><u>Reports Portal:</u></p> <p><u>Bridges:</u>          -Bridges are inspected every 2 years          Bridges rated 4 are inspected annually</p> <p><u>10'-20' Series:</u>          -Culverts are inspected every 4 years          -Culverts rated a 6 are inspected every 2 years          -Culverts rated a 4 are inspected annually</p> <p><u>MQA Software:</u>          -0.1-mile segments          -Drainage: 14% WF          -Ditch, culverts/pipes, inlets, etc.</p>	<p><u>1. Stormwater Management Plan:</u>          -Include program descriptions</p> <p><u>2. Annual Report</u>          -Update <i>Structure Inspections per Urbanized area</i> table          -Update MQA Inspection Map, (table to locations)          -Weekly dashboard surveys</p>	<p><input type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>	<p>3</p>
<p>Lbmp IDD&amp;E - 07</p>	<p>Implement a Household Hazardous Waste Collection Program or document others have implemented such a program to provide such service to all property owners or residents located within the permit area.</p>	<p>Document the residents and property owners within the MS4 permit area were able to dispose of such waste at the facility during a calendar year. Retain this documentation.</p>	<p>Yes</p>	<p>3</p>	<p><u>Kansas City</u>  <u>Permit# M-KS27-SU01 :</u>          -Johnson County          -Wyandotte County</p> <p><u>Lawrence</u>  <u>Permit# M-KS31-SU02 :</u>          -Douglas/Lawrence Counties</p> <p><u>Manhattan</u>  <u>Permit# M-KS38-SN01:</u>          -Riley County</p> <p><u>St. Joseph</u>  <u>Permit# M-MO05-SU01:</u>          -DoniphanCounty Event</p> <p><u>Topeka</u>  <u>Permit# M-KS72-SU02 :</u>          -Shawnee County</p> <p><u>Wichita</u>  <u>Permit# M-AR94-SU02:</u>          -Sedgwick County</p>	<p><u>1. Stormwater Management Plan:</u>          -Provide list of locations per urbanized area and facilities available</p> <p><u>2. Annual Report</u>          -Save a pdf copy of the HHWP websites for each county          -List which urbanized areas had physical locations and which had collection events          -Include documentation on used oil recycling and battery exchange</p>	<p><input checked="" type="checkbox"/></p>	<p>3</p>



# **K.D.O.T. Spill Prevention Control and Countermeasure Plan**

## **DISTRICT 1**

### **Area 1**

#### **FACILITY OWNER AND OPERATOR:**

##### **Address and Telephone:**

Kansas Department of Transportation  
Bureau of Maintenance  
Eisenhower State Office Building  
700 SW Harrison St.  
Topeka, KS. 66603

785-296-3566

#### **CERTIFICATION**

I hereby certify that I have examined the plan, and being familiar with the provisions of 40 CFR Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

District Maint. Engineer: Mark Karolevitz

Signature: \_\_\_\_\_

Registration Number: \_\_\_\_\_

State: Kansas

Date: \_\_\_\_\_

## Illicit Discharge Reporting Log

*Use this form to document complaints, days to investigate, and days to resolve*

No.	Monthly Check								
	Name	Date	Location	Complaint	Applicable?	Days to Investigate	Resolution	Days to Resolve	Done?
1	Dale Kirmer	January 1, 2021 to December 31, 2021	Kansas City MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
2	Dale Kirmer	January 1, 2021 to December 31, 2021	St. Joseph MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
3	Dale Kirmer	January 1, 2021 to December 31, 2021	Lawrence MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
4	Dale Kirmer	January 1, 2021 to December 31, 2021	Topeka MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
5	Dale Kirmer	January 1, 2021 to December 31, 2021	Manhattan MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		
6	Dale Kirmer	January 1, 2021 to December 31, 2021	Wichita MS4	No Illicit Discharge/ No spill were reported to either the KDOT.MS4@ks.gov email, KDOT General Email, KDOT Olathe Area Office, KDOT Bonner Springs Area Office. No illicit discharge was observed the KDOT staff.			None Required		

Sample #	Route	County	Dir	Beginning Ref. Post	Ending Ref. Post	County Log Mi.
136	K00120	DP	EB	8.2	8.3	8.2
137	K00120	DP	EB	7.1	7.2	7.1
138	K00007	DP	NB	240.6	240.7	21.7
139	U00036	DP	EB	364.4	364.5	1.9
140	U00036	DP	EB	375.7	375.8	13.2
141	K00007	DP	NB	234.8	234.9	15.8
142	K00007	DP	NB	223.8	223.9	8.5
143	K00007	DP	NB	235.3	235.4	16.4
144	K00007	DP	NB	234.4	234.5	15.4
145	K00007	DP	NB	231.6	231.7	12.7
146	K00007	DP	NB	223.4	223.5	8.1
147	K00238	DP	EB	0.6	0.7	1
148	K00007	DP	NB	243	243	24
149	K00020	DP	EB	35	35.1	13.5
150	K00007	DP	NB	232	232	13
151	K00120	DP	EB	5.8	5.9	5.9
152	K00020	DP	EB	23.3	23.4	1.6
153	K00120	DP	EB	4.3	4.4	4.2
154	K00007	DP	NB	223.3	223.4	8
155	K00020	DP	EB	27.6	27.7	6
156	K00007	DP	NB	238.3	238.4	19.4
157	K00020	DP	EB	36.3	36.4	14.7
158	K00020	DP	EB	32.4	32.5	10.9
159	U00036	DP	EB	389	389	24.9
160	K00120	DP	EB	6.7	6.8	6.8
161	U00036	DP	EB	375	375.1	12.5
162	K00007	DP	NB	237	237	18
163	U00036	DP	EB	365.2	365.3	2.7
164	K00007	DP	NB	237.2	237.3	18.3
165	U00036	DP	WB	388.7	388.8	24.7
166	U00040	DG	EB	71.2	71.3	0

## Total Inspections - Urbanized Areas

County Name	Count of Structures
Allen	48
Anderson	33
Atchison	38
Barton	2
Bourbon	73
Brown	45
Butler	13
Chautauqua	23
Cherokee	11
Cheyenne	15
Clark	34
Cloud	2
Coffey	20
Comanche	1
Cowley	3
Crawford	5
Decatur	16
Dickinson	7
Doniphan	29
Douglas	6
Edwards	1
Elk	23
Ellis	57
Finney	28
Ford	58
Franklin	24
Geary	5
Gove	18
Graham	34

Source: KDOT's Report Portal  
Date: October 4, 2021

Grant	13
Gray	34
Greeley	8
Greenwood	44
Hamilton	44
Harper	4
Harvey	2
Haskell	5
Hodgeman	24
Jackson	21
Jefferson	25
Johnson	11
Kearny	13
Kingman	46
Labette	1
Lane	5
Leavenworth	34
Lincoln	1
Linn	20
Lyon	13
Marion	2
Marshall	29
Mcperson	26
Meade	24
Miami	25
Mitchell	2
Montgomery	70
Morris	1
Morton	11
Nemaha	36
Neosho	2
Ness	45
Norton	59

Osage	8
Osborne	46
Phillips	45
Pottawatomie	3
Rawlins	8
Reno	10
Republic	1
Rice	1
Riley	6
Rooks	35
Rush	2
Russell	66
Saline	23
Scott	7
Sedgwick	9
Seward	5
Shawnee	9
Sheridan	7
Sherman	13
Smith	40
Stafford	1
Stanton	5
Stevens	10
Sumner	21
Thomas	11
Trego	46
Wabaunsee	8
Wallace	4
Washington	68
Wichita	6
Wilson	37
Woodson	21
Wyandotte	196

## Total Structures - Urbanized Areas

County Name	Count of Structures
Doniphan	177
Douglas	417
Riley	294
Sedgwick	1,705
Shawnee	703
Wyandotte	442

Source: KDOT's Report Portal  
Date: October 4, 2021

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**Department of Health and Environment**  
**Household Hazardous Waste**  
**Appointment Scheduler**

**Welcome Johnson County, Kansas residents!**

Schedule an appointment to responsibly dispose of household hazardous waste in 3 easy steps.

[Click here](#) to see what materials we accept. We do NOT accept Electronic Waste.

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## **IMMEDIATE RELEASE**

September 17, 2021

### **For more information:**

Delaney Tholen

785-817-9365

[delaney.tholen@ks.gov](mailto:delaney.tholen@ks.gov)

## **Litter removal and sweeping services clean up KC metro roadways**

*More than 50 tons of trash picked up along primary traffic corridors since June*

The assignment is to pick up litter along major traffic corridors in Johnson and Wyandotte counties. But safety comes first.

Each weekday before heading out to collect unsightly and unsafe roadside debris, supervisor Troy Cummings gathers his crew for a safety briefing. The Interstate Business Solutions (IBS) team, contracted by the Kansas Department of Transportation (KDOT), goes over daily safety reminders and any problem areas identified on the day's route, most notably guardrails.

Guardrails require extra caution as they are close to passing motorists and often catch large amounts of litter blown off the roadway, including loose fast-food wrappers and packaging from passing freight. The IBS crew works during daylight hours and posts roadside safety signs every five miles to make drivers aware of the litter removal and workers on the shoulder. However, when working along guardrails, Cummings also follows the crew in a truck with flashing lights and signage for extra visibility as a safety precaution.

“Despite the warnings, we often see drivers, many using phones, who cross onto the shoulder at high speeds,” said Cummings. “They do not seem aware of workers walking on the roadside.”

When its work in the Kansas City metro began in June, IBS focused large debris cleanup efforts along 50 miles of roadway identified by KDOT and from public input as areas where roadside litter is prevalent. The first month's efforts were along I-435 in Johnson County, U.S. 69 from I-35 to 151<sup>st</sup> Street and I-635 in Wyandotte County. In July, IBS worked I-435 in Wyandotte County and I-35 in Johnson and Wyandotte counties.

There was plenty of trash to be found. To date, IBS has collected more than 106,000 pounds – more than 50 tons – of litter and debris along these routes. Each day, about eight miles of roadway are covered and cleanup results in filling an average of 110 trash bags.

Cummings said the majority of collected debris seems to come from unsecured loads on trucks, but the daily haul always includes an interesting mix of items. The IBS crew has picked up televisions, iPads, a saxophone, diaper bags, a box of straw hats and more than 5,000 pairs of nitrile gloves. That's in addition to numerous car parts, construction materials and large appliances.

Some items are especially unique. While walking along U.S. 69 at the 151<sup>st</sup> exit, an IBS crew member found an iPhone. The phone still had power and eventually its owner called. Turns out the mobile device had been stolen at a nearby gas station and apparently pitched. IBS was able to return the phone to its owner.

IBS, based in Indianapolis, Ind., hires local workers and partners with a Kansas City non-profit to employ individuals experiencing housing insecurity. Since completing its initial routes, IBS is now following a routine schedule of right-of-way litter maintenance. As part of this maintenance schedule, IBS returns to initially cleared locations every few weeks.

Cummings said when crews return to areas already worked, they often find the same debris-filled condition as before. "It's an ongoing job."

Roadside pickup efforts are supplemented by KDOT maintenance crews, Adopt-A-Highway volunteers and the Sponsor-A-Highway partners.

In addition to debris collection by hand, KDOT recently contracted Kasper, LLC, of Crocker, Mo., to provide sweeping services on metro-area roadways, expected to begin in October. Kasper crews will be working overnight Monday through Thursday, from 10 p.m. to 8 a.m. Selected route segments will be swept in both directions along curbs and barriers for mainline and ramps.

Approximately 160 miles along major highway corridors in Johnson and Wyandotte counties have been identified for sweeping services and include, but are not limited to: I-35, I-70, I-435, I-635, I-670, U.S. 69 and K-10.

Public involvement helps maintain state roadways and is a benefit to motorists and surrounding communities. Information on KDOT Adopt-A-Highway volunteer opportunities and Sponsor-A-Highway programs can be found here: <https://www.ksdot.org/bureaus/burMaint/Adoptahighway.asp>.

KDOT urges all motorists to be alert and obey the warning signs when approaching and driving through a highway work zone. To stay aware of all road construction projects across Kansas go to [www.kandrive.org](http://www.kandrive.org) or call 5-1-1. Drive safely and always wear your seat belt.



*I-35 near 135<sup>th</sup> Street before and after IBS crews picked up roadside debris.*

###

This information can be made available in alternative accessible formats upon request. For information about obtaining an alternative format, contact the KDOT Office of Public Affairs, 700 SW Harrison St., 2<sup>nd</sup> Fl. West, Topeka, KS 66603-3754 or phone 785-296-3585 (Voice) / 7-1-1 (Hearing Impaired).

**Click below to connect to KDOT's Social Networks:**



# EN ROUTE TO FRIDAY

April 30,  
2021

## The road to staying connected

IKE celebrates one-year anniversary in April, highlights major accomplishments on social media pages

**by the Numbers**  
1 year since IKE signed into law on Friday, April 3, 2020  
8 new or improved programs launched  
13 Short Line Rail Projects selected  
38 Cost Share Projects selected  
48 Local Road projects have been let, 90% support from Kansas Legislators for the passage of IKE  
240 preservation projects have been announced, 1,000 students enrolled through Drivers Education Reimbursement Program  
2,000+ KDOT employees delivering on IKE promises  
\$13 M committed to five Innovative Technology grants  
\$10 M allocated to help expand broadband  
\$65 M let to construction  
Find out more at [www.ksdot.org/ike](http://www.ksdot.org/ike)

**INVESTING in the FUTURE of KANSAS**  
THE EISENHOWER LEGACY TRANSPORTATION PROGRAM  
IKE 1 YEAR  
40 rural and urban projects representing \$1.6 billion worth of highway modernization and expansion projects were added to the IKE development pipeline within 6 weeks of IKE being signed into law on April 3, 2020.  
Find out more at [www.ksdot.org/ike](http://www.ksdot.org/ike)

**Preservation+**  
Provides 'add-on' improvements to preservation projects that are focused on safety enhancements and broadband expansion.  
In the first year of IKE, \$7 million of Preservation+ funding was directed to safety enhancements. \$10 million has been allocated for installing conduit and fiber along 150 miles of priority freight routes.  
Find out more at [www.ksdot.org/ike](http://www.ksdot.org/ike)

**Broadband**  
IKE delivers the first state-funded competitive broadband grant opportunity to facilitate access to high-quality internet service to Kansas homes, businesses and communities.  
The Broadband program, administered by the Kansas Department of Commerce, received \$5 million in 2020 and is slated to receive \$85 million as part of IKE.  
Find out more at [www.ksdot.org/ike](http://www.ksdot.org/ike)

**Local Bridge Improvement Program**  
IKE assists Kansas cities and counties with infrastructure improvements by providing funds for the replacement or rehabilitation of bridges on local roadway systems.  
In IKE's first year, 33 counties and three cities received a combined total of \$9 million for local bridge projects.  
Find out more at [www.ksdot.org/ike](http://www.ksdot.org/ike)

**Short Line Rail Improvement**  
The Short Line Rail Improvement Program creates partnerships between public and private sectors. Applicants to this IKE program must provide at least a 30 percent match for projects that expand or make improvements to short line rail.  
In its inaugural year, four projects were awarded to short line railroads and nine projects were awarded to shippers. The IKE grants will be used to improve or construct nearly 15 miles of track totaling a \$7 million investment.  
Find out more at [www.ksdot.org/ike](http://www.ksdot.org/ike)

**Innovative Technology Program**  
IKE provides financial assistance to partners for innovative transportation technology projects that improve safety and increase KDOT's total technology investment.  
Five Innovative Technology projects totaling \$1.3 million were announced in this program's first round of project selections.  
Find out more at [www.ksdot.org/ike](http://www.ksdot.org/ike)

**Cost Share Program**  
The IKE Cost Share program leverages public and private partnerships to help both rural and urban areas of the state improve the transportation system.  
In 2020, 38 projects were awarded funding with communities contributing \$21.7 million and KDOT contributing \$26.1 million towards the total project investment.  
Find out more at [www.ksdot.org/ike](http://www.ksdot.org/ike)

Throughout the month of April, KDOT celebrated IKE's one-year anniversary with a series of social media posts highlighting major accomplishments of the new transportation program.

On Facebook, the series reached more than 25,000 people, and on Twitter, nearly 60,000 individuals had a chance to read about the accomplishments. Check out the Facebook album [here](#):

**Sneak peek: National Work Zone Awareness Week highlights importance of work zone safety.**

Read the full story in Translines next week!

# SLOW DOWN

National Work Zone Awareness Week

## #GoOrangeKS



**KCA**  
Kansas Contractors  
Association



“ Ever since that day, I decided that whenever I am on the highway that I would scan the area every three to five seconds to look for hazards. ”

Read the whole story:  
[www.kansastransportation.blogspot.com](http://www.kansastransportation.blogspot.com)

National Work Zone Awareness Week  
**#GoOrangeKS**

## #BelikeLily: Secretary Lorenz meets with fourth grade class on Earth Day to discuss keeping Kansas clean

Dear Julie Lorenz, I am a 10 year old girl named Lily and I have been noticing that there is alot of trash along the high way, and I would like to help. I noticed that your have to be at least 11 to help with the adopt a high way, and I am under the age restriction, if there is a way I could help get the trash picked up, let me know.

Thanks, Lily



After receiving a letter from a community-minded fourth grader named Lily, Secretary Julie Lorenz scheduled a meeting with her and her class over a Zoom call on Earth Day. This gave Lily and her classmates the opportunity to share ways they hoped

to help keep the environment clean. Let's all be like Lily.

Learn more about KDOT's Adopt-a-Highway program [here:](#)

NAME

EMAIL

COMMENT

# TELL US! WHAT DOES THE FUTURE OF KANSAS TRANSPORTATION LOOK LIKE?

READ THE **2045 LONG RANGE TRANSPORTATION PLAN** AND COMMENT [HERE:](#)

## **MCM4: Construction Site Stormwater Runoff Control**

Provisions of the Federal Clean Water Act and related state rules and regulations require NPDES permit coverage where construction activities disturb one acre or more over the life of a project. KDOT obtains coverage for each project by submitting a Notice of Intent (NOI) to KDHE for authorization under the Kansas Water Pollution Control and NPDES Stormwater Runoff from Construction Activities General Permit. As a “non-traditional” MS4, KDOT does not have the authority to enact ordinances or resolutions requiring erosion or sediment control practices. Construction activities regulated under this program are primarily undertaken by contractors, who are subject to various contract requirements to provide erosion and sediment control appropriate for each project.

Reference Table 4.1 below for a list of available BMPs for implementation and their respective descriptions.

**Table 4.1 - Available BMPs**

Lbmp CSSRC	KDOT Applicability		Description
	Existing	Future	
01	Yes	Yes	Implement erosion control plan for land disturbances (1+ acres)
02	Yes	Yes	Develop and adopt an erosion and sediment control manual
03	Yes	Yes	Provide training on SWP2 requirements and BMP implementation
04	No	No	Develop site plan review process which considers water quality impacts
05	Yes	Yes	Establish requirements for construction sites to control wastes
06	Yes	Yes	Develop procedures for inspection of construction sites
07	Yes	Yes	Develop a software to track inspections

BMPs identified as applicable to KDOT are described in the following subsections.

## Lbmp CSSRC - 01: Implement Erosion Control Plan for Land Disturbances (1+ acres)

*Measurable Goal: Enact enforceable measure that requires a Soil Erosion and Sediment Control Plan*

Each project disturbing one-acre or more is subject to the KDHE general permit requirements. These requirements include developing and implementing a stormwater pollution prevention plan (aka soil erosion and sediment control plan).

Section 901 of KDOT's Special Specifications details stormwater pollution management for land disturbances of greater than or equal to one-acre. The goal of Section 901 is to minimize or eliminate erosion, sediment, and other pollutants in stormwater runoff from construction sites by designing, implementing, inspecting, and maintaining applicable best management practices.

### **2021 Annual Report Update**

Section 901 of KDOT's Special Specifications details stormwater pollution management for land disturbances. Effective December 15, 2021, a revised version of KDOT's Section 901 of the Special Specifications will take precedence. The updates and new requirements are as follows:

- ▶ All expected disturbed areas are required to be listed on Form 247B
- ▶ If the project is less than 17 acres, the Area Engineer and Contractor are required to separate the project by physical features
- ▶ Areas of unfinished work must be stabilized or reactivated within seven calendar days of being documented on the 247 form
- ▶ The WPCM will either need to be an employee of the Prime Contractor, have their CPESC certification, or be a recognized Kansas Professional Engineer, geologist, Architect, or landscape architect. The WPCM will have to fill out Form 280 – The Water Pollution Control Manager Weekly Report
- ▶ SWPPP Inspections must begin and end during normal business hours. Only one inspection will be paid for per day per project.
- ▶ For joint SWPPP inspections, the contractor has 10 calendar days to remedy any deficiencies documented on oversight inspection instead of the normal seven

## **Lbmp CSSRC - 02: Develop and Adopt an Erosion and Sediment Control Manual**

*Measurable Goal: Require implementation of BMPs in compliance with manual*

KDOT requires contractors to utilize KDOT's landscape standard sheets for implementation of BMPs on sites where land disturbance is greater than or equal to one-acre. Also provided by KDOT is a *Landscape Information Form* spreadsheet. This spreadsheet provides guidance for SWPPP-related quantities (e.g. slope protection, ditch checks, temporary berms, sediment basins, etc.). Both documents adhere to the rules and regulations placed by Section 901 (Stormwater Pollution Management) of the Special Specifications.

For the duration of this permit, KDOT will update the Temporary Erosion Control Manual. Last updated in 2007, this manual will undergo an in-depth review process to emulate the information provided in the landscape standard sheets.

### ***2021 Annual Report Update***

KDOT continues to utilize the landscape standard sheets for erosion and sediment control implementation on construction projects. Both the standard sheets and *Landscape Information Form* spreadsheet are available on KDOT's website under Standard Drawings: <https://kart.ksdot.org/StandardDrawings/StandardDetail.aspx>. An account is required to access these documents.

Standard sheets include the following: permanent seeding, flexible channel liners, slope protection, sediment storage basin, biodegradable log ditch checks, rock ditch checks, silt fence, biodegradable logs, inlet protection, temporary stream crossing, temporary slope drain.

## Lbmp CSSRC - 03: Provide Training on SWP2 Requirements and BMP Implementation

*Measurable Goal: Training must address local requirements for SWP2 plan, BMPs, & permits*

KDOT partners with Kansas State University Salina Aerospace and Technology Campus to provide construction stormwater training for KDOT employees, consultants, and contractors. K-State offers online courses, online certification exams, and in-person field trainings.

For those conducting site inspections for compliance with the KDHE general permit, this training is required per KDOT policy. KDOT also requires this training for water pollution control managers (WPCM) and those with the responsibility for SWPPP review and approval.

Learning objectives include:

- ▶ Basic principles of erosion, sediment control and non-stormwater/waste management control
- ▶ NPDES permit requirements
- ▶ Stormwater related KDOT plans, specifications, and procedures
- ▶ Inspection requirements and procedures
- ▶ Common compliance issues
- ▶ BMP installation and inspection (field demonstration)

Located at Seeders Inc in Wichita, Kansas, the field day includes a 3-hour morning or afternoon session. Attendees will gain hands-on experience with proper device installation and inspection, stockpile management, stabilization practices, seed and equipment, and SWPPP inspection requirements.

The exam consists of 40 multiple choice questions and lasts for a duration of one hour. A minimum score of 70% is required to pass. If a minimum score is not achieved, test takers may retake the exam but will be required to wait until the next testing session. This certificate is valid for four years after successfully completing the construction stormwater training.

More information regarding this training can be found here: <https://www.salina.k-state.edu/research-training/training-professional-development/certified-inspector-training/courses/construction-stormwater-training.html>

### **2021 Annual Report Update**

Registration for construction stormwater training began on September 15, 2021. Due to COVID-19, K-State offered a hybrid approach of both online and in-person instruction. For the 2021 permit year, the following dates were offered:

- ▶ Online written exam dates:
  - March 23, 24, 25, 2021
  - April 27, 28, 29, 2021
  - May 25, 26, 27, 2021

- October 26 - 27, 2021
- ▶ In-person field training dates:
  - October 26 -27, 2021

## Lbmp CSSRC - 05: Establish Requirements for Construction Sites to Control Wastes

*Measurable Goal: Enact means to control waste at construction sites*

Form 247 is mandatory for use on all KDOT owned projects requiring permit coverage. This form is also required for projects owned by a city, county, etc. using contracts administered by KDOT.

Established on August 7, 2013, this form was distributed to all KDOT field offices and made publicly available on KDOT's website. This form was also included in the Environmental Inspector Training materials. Form 247 was revised in March 2018 to provide clarification and address questions. No revisions were made in 2020 or 2021.

### **Form 247**

The instructions for Form 247 include the inspection procedures and guidance. Waste control and housekeeping measures are found on tab titled "GENERAL – 247A". Instructions for this tab can be found on page one of the instructions under Overall Site Issues. This section is dedicated to the "big picture" items as well as general housekeeping issues.

The "GENERAL – 247A" tab covers the requirements for controlling wastes on construction sites and to prevent reentry into the MS4 permit area. The following items are included in this inspection:

- ▶ Discarded building materials
- ▶ Concrete
- ▶ Truck washout
- ▶ Chemicals
- ▶ Litter
- ▶ Sanitary waste

The inspector may also include observations and remarks for each activity.

### **2021 Annual Report Update**

Both Form 247 and Form 247 Instructions are made available to the public on KDOT's Management Plan website. The documents can be found here:

<https://www.ksdot.org/bureaus/burConsMain/Connections/swppp.asp>.

## Lbmp CSSRC - 06: Develop Procedures for Inspection of Construction Sites

*Measurable Goal 1: Procedures must address administrative aspects, issuance of inspection reports, notices of violations, and enforcement actions*

*Measurable Goal 2: Inspection guide must provide guidance on how to conduct site inspections, required procedures, guidance on acceptable BMP conditions, guidance on enforcement actions, guidance on photo log, and inspection checklists*

Form 247 is mandatory for use on all KDOT owned projects requiring permit coverage. This form is also required for projects owned by a city, county, etc. using contracts administered by KDOT.

Established on August 7, 2013, this form was distributed to all KDOT field offices and made publicly available on KDOT's website. This form was also included in the Environmental Inspector Training materials. Form 247 was revised in March 2018 to provide clarification and address questions. No revisions were made in 2020 or 2021.

### **Form 247 Instructions**

The instructions for Form 247 include the inspection procedures and guidance. Reference the following pages for further guidance:

- ▶ General Form Instructions: Page 1
  - Provides guidance for the following:
    - Cover and Certification
    - Sediment Control and Other Structural BMPs (acceptable BMP conditions)
    - Rainfall Log
    - BMP Deficiencies (includes corrective actions for site violations)
- ▶ Post-Construction (PC) Inspections: Page 4
- ▶ Permit Termination: Page 4

### **Form 247**

KDOT's Form 247 requires inspectors to document conditions for construction sites. This form is divided into the following key elements:

- ▶ General Issues/Housekeeping
- ▶ Disturbed Areas/Site Erosion
- ▶ Sediment Control and Other Structural BMPs
- ▶ Rainfall Log
- ▶ BMP Deficiencies

According to Specification 901, inspections are to be performed every two weeks.

In addition to meeting the requirements of the Specifications, the procedures require that the contractor jointly participate in all project inspections. This requirement is intended to promote collaboration in the evaluation and decision process, and for the contractor to be immediately aware of identified deficiencies.

***2021 Annual Report Update***

Both Form 247 and Form 247 Instructions are made available to the public on KDOT's Management Plan website. The documents can be found here:

<https://www.ksdot.org/bureaus/burConsMain/Connections/swppp.asp>.

## **Lbmp CSSRC – 07: Develop a Software to Track Inspections**

*Measurable Goal: Tracking system must schedule inspections & follow-up activities*

KDOT requires all completed inspection reports to be submitted to the Area Engineer and the contractor's Water Pollution Control Manager within 24 hours of each inspection. Within three days, the Area Engineer is responsible for signing the inspection report and submitting it to the following email address: [KDOT.stormwaterinspection@ks.gov](mailto:KDOT.stormwaterinspection@ks.gov). A disincentive assessment may be issued if the inspection report is not submitted on time.

This methodology offers the Stormwater Compliance Engineer (SWCE) the ability to track the inspection process as well as provide any additional reviews. To assist the SWCE with the tracking and review of inspection reports, an Engineering Technician Specialist is assigned. This position is part-time and is from the Bureau of Construction Materials. The reports are left in the email and the original reports are to remain onsite.

For the duration of the permit, KDOT anticipates that AASHTOware will be implemented to track inspections and related tasks. AASHTOware is a software suite that examines inspections as well as costs, schedules, safety, etc. Pilot implementation of AASHTOware is scheduled for 2022.

### ***2021 Annual Report Update***

During the 2021 permit year, KDOT managed a spreadsheet that tracks all inspection reports.

# Kansas Department of Transportation

## Stormwater Management Plan



Minimum Control Measure:  
MCM4: Construction Site Stormwater Runoff

Permit Year:  
2021

BMP	Summary	Measurable Goal	KDOT Availability		Reference	How to Report	Claimed	
			Applicable	Points			2021	Points
Lbmp CSSRC - 01	Implement a requirement for a Soil Erosion and Sediment Control Plan for any land disturbance sites which are greater than or equal to 1 acre.	Enact enforceable measure that requires a Soil Erosion and Sediment Control Plan for construction activity disturbing equal to or greater than 1 acre	Yes	3	<a href="#">Section 901 Stormwater Pollution Management</a>	1. <u>Stormwater Management Plan:</u> -Describe purpose of Section 901  2. <u>Annual Report:</u> -Save Section 901 & WPCM Weekly Report form -Document 901 changes	<input checked="" type="checkbox"/>	3
Lbmp CSSRC - 02	Develop and adopt a design manual for erosion and sediment control BMPs which are required to be used on sites on which disturbance will be equal to or greater than 1 acre.	Require implementation of BMPs in compliance with design manual	Yes	3	<a href="#">Section 901 Stormwater Pollution Management</a>  KDOT's Landscape Sheets & Landscape Information Spreadsheet	1. <u>Stormwater Management Plan:</u> -Describe standards & information spreadsheet -Provide connection to Section 901  2. <u>Annual Report:</u> -Include list of standards -Saved standards	<input checked="" type="checkbox"/>	3
Lbmp CSSRC - 03	Provide access to at least one training class for contractors / developers which provides training on requirements for a SWP2 and implementation of appropriate BMPs.	Training must: Address all local requirements for a SWP2 Plan Requirements for BMPs Permit Requirements	Yes	3	<a href="#">Kstate Polytechnic Campus - Construction Stormwater Training</a>	1. <u>Stormwater Management Plan:</u> -Describe Construction Stormwater Training course  2. <u>Annual Report:</u> -Include log of training dates	<input checked="" type="checkbox"/>	3
Lbmp CSSRC - 05	Establish effective requirements for construction sites to control wastes. Develop enforceable means requirements for construction site Operators or owners to control wastes. At a minimum control shall be imposed to prevent entry into the MS4 for the following wastes: <b>Discarded building materials</b> <b>Concrete</b> <b>Truck washout</b> <b>Chemicals</b> <b>Litter</b> <b>Sanitary waste</b>	Enact means to control wastes at construction sites	Yes	3	<a href="#">KDOT Form 247: -Instructions</a>  <a href="#">KDOT Form 247: -Excel File</a>	1. <u>Stormwater Management Plan:</u> -Describe Form 247, inspection procedures, and instructions  2. <u>Annual Report:</u> -Include link to Form 247 instructions and template -Save Form 247 and instructions	<input type="checkbox"/> <input checked="" type="checkbox"/>	3

Lbmp CSSRC - 06	Develop written procedures for inspection of construction sites. Develop a Stormwater Construction Site Inspection Guide for use by inspectors.	<p><b>Procedures must:</b>  Address administrative aspects with required inspections  Issuance of inspection reports  Notices of violations  Enforcement actions</p> <p><b>Inspection Guide must:</b>  Provide guidance on how to conduct a construction site stormwater inspection  Required procedures and guidance on acceptable conditions of BMPs employed on site  Enforcement actions and/or reference of cases for enforcement by other staff  Guidance on photo log of the inspection  Inspection checklists</p>	Yes	3	<a href="#">KDOT Form 247: -Instructions</a>  <a href="#">KDOT Form 247: -Excel File</a>	<p>1. <u>Stormwater Management Plan:</u>  -Describe Form 247, inspection procedures, and instructions</p> <p>2. <u>Annual Report:</u>  -Include link to Form 247 instructions and template  -Save Form 247 and instructions</p>	<input checked="" type="checkbox"/>	3
Lbmp CSSRC - 07	Acquire or develop a software tracking system to track inspections and related tasks.	<p><b>Tracking system must:</b>  Schedule inspections  Schedule follow-up activities (re-inspections, mailing notices or reports)</p>	Yes	1	<a href="#">Tracking Spreadsheet</a> -Reports are stored in stormwater email account	<p>1. <u>Stormwater Management Plan:</u>  -Describe link between spreadsheet and email account</p> <p>2. <u>Annual Report:</u>  -Save data breakdown of the reports stored in permit year</p>	<input checked="" type="checkbox"/>	1

2021 - Construction Site Runoff Summary	
Available Points	16
Requirement	4
Claimed Points	16
Meets Requirements	Yes

## Dale Kirmer [KDOT]

**From:** Mervin Lare [KDOT]  
**Sent:** Monday, February 14, 2022 11:36 AM  
**To:** Dale Kirmer [KDOT]  
**Subject:** RE: Construction Stormware - MCM4 in the Annual Report

Dale

Below is the info you needed.

D1A2, I35-046 KA 3239-01, 52 inspections(Kansas City)  
D1A4, K10-023 KA 3634-08, 38 inspections(Lawrence)  
D1A5, K18-081 KA 3080-01, 38 Inspections(Manhattan)

D5A5, I235-087 KA 3232-03, 29 Inspection(Wichita)  
D5A5, I235-087 KA 3895-01, 40 Inspections(Wichita)  
D5A5, I235-087 KA 3110-01, 41 Inspections(Wichita)

Thanks,

Mervin Lare, P.E.  
Stormwater Compliance Engineer  
1021 North Cedar St  
Marion, KS 66861  
785-250-4793

**KANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION TO THE  
STANDARD SPECIFICATIONS, 2015 EDITION**

Delete SECTION 901 and replace with the following:

**SECTION 901**

**STORMWATER POLLUTION MANAGEMENT**

**901.1 DESCRIPTION**

Design, implement, inspect and maintain appropriate best management practices to minimize or eliminate erosion, sediment and other pollutants in stormwater runoff from the project.

**BID ITEMS**

SWPPP Design  
SWPPP Inspection  
Water Pollution Control Manager  
Stormwater Compliance Disincentive Assessment

**UNITS**

Lump Sum  
Each  
Each  
Lump Sum

**901.2 MATERIALS**

None Required.

**901.3 CONSTRUCTION REQUIREMENTS**

**a. Permits.**

(1) Projects requiring permit coverage:

(a) KDOT with 1.0 acre or more of erodible surface:

KDOT will submit the Notice of Intent (NOI) for authorization to discharge stormwater runoff from construction activities in accordance with the Kansas Water Pollution Control General Permit. This authorization does not cover Contractor plant sites and Contractor-Furnished borrow and waste sites outside the project limits.

The Contractor shall accept full responsibility, coverage, and liability for the permit, along with KDOT. Within 10 business days after notice of the award of contract, or within any time extension the Bureau Chief of Construction and Materials has granted for completion of documents required in the Bidding Proposal Form, complete, sign and return to KDOT the KDHE form "REQUEST FOR JOINT OWNER/OPERATOR" (RJOO). A blank copy of the form is attached. The Secretary will not sign the contract until the Contractor has returned the completed, signed RJOO. If the Contractor fails to complete, sign, and return the RJOO within the required time, the Secretary will cancel the award of contract as provided in **SECTION 103**. KDOT will submit the completed form to KDHE for authorization. After approved by KDHE, copies will be distributed to KDOT and the Contractor.

(b) Local Public Authority with 1.0 acre or more of erodible surface:

The local governmental agency will submit the Notice of Intent (NOI) for authorization to discharge stormwater runoff from construction activities in accordance with the Kansas Water Pollution Control General Permit. This authorization does not cover Contractor plant sites and Contractor-Furnished borrow and waste sites outside the project limits.

(2) Projects not requiring permit coverage: The Contractor is required to comply with **subsection 901.3b** and use appropriate Best Management Practices (BMPs) to minimize stormwater pollution.

Select Contractor-furnished borrow or plant sites from which runoff will not significantly impact the same surface waters and stream segments that receive runoff from the project site. Selecting a site which does significantly impact the same surface waters may result in the project requiring permit coverage.

# Kansas Department of Transportation Storm Water Pollution Prevention Plan Inspection and Maintenance Report

Project #: \_\_\_\_\_

Permit #: \_\_\_\_\_

Area / Metro Engineer: \_\_\_\_\_

Water Pollution Control Manager: \_\_\_\_\_

Date of Last Significant Rain Event: \_\_\_\_\_

Date of Last Inspection: \_\_\_\_\_

Inspection Type: \_\_\_\_\_

Inspection Date: \_\_\_\_\_

(optional) Report # \_\_\_\_\_

## CONTENTS

FORM ID #	DESCRIPTION	REQUIRED?
247A	General Issues / Housekeeping	YES
247B	Disturbed Areas / Site Erosion	YES
247C	Sediment Control and Other Structural BMPs	YES

FORM ID #	DESCRIPTION	REQUIRED?
247D	Rainfall Log	YES
247E	BMP Deficiencies	YES

## INSPECTOR CERTIFICATION STATEMENT

" 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 gathered and evaluated 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 the possibility of fine and imprisonment for known violations."

TITLE	PRINT NAME	CERT ID #	EXP. DATE	SIGNATURE	DATE
KDOT INSP.					
CONT. INSP.					
AREA ENG					
WPCM*					

\*WPCM Signature acknowledges awareness of all deficiencies noted. All documented deficiencies are required to be remedied within 7 days of this inspection unless determined to be infeasible by the Stormwater Compliance Engineer. Failure to do so will result in the assessment of stormwater compliance disincentive.

## **MCM5: Post-Construction Stormwater Runoff**

KDOT shall develop, implement, and enforce a program to manage post-construction stormwater runoff within KDOT right-of-way. This program will focus on implementing and enforcing a Stormwater Control Measure Manual for the purpose of providing guidance on the design, construction, and maintenance of stormwater control measures (SCMs). During the permit duration, KDOT will implement an Operations & Maintenance (O&M) Manual to ensure the longevity of SCMs.

Reference Table 5.1 below for a list of available BMPs for implementation and their respective descriptions.

**Table 5.1 - Available BMPs**

Lbmp P- CSM	KDOT Applicability		Description
	Existing	Future	
01	Yes	Yes	Develop and adopt custom Post-Construction Stormwater Management manual
02	Yes	Yes	Develop a list of post-construction structural or non-structural BMPs
03	No	Yes	Develop and implement a program to ensure long-term operation & maintenance of BMP facilities
04	No	No	Develop a plan which establishes zoning and development standards
05	No	Yes	Develop and implement a program for inspection of permittee owned structural BMPs
06	No	No	Develop and implement a program for inspection of privately owned structural BMPs
07	No	No	Enact enforceable requirement which requires installation of pervious surfaces on property
08	No	No	Implement a program to encourage residents to install stormwater BMPs

BMPs identified as applicable to KDOT are described in the following subsections.

## Lbmp P-CSM - 01: Develop and Adopt Custom Post-Construction Stormwater Management Manual

*Measurable Goal: Capture at least the first 0.5" of precipitation on the project site. Reduce peak stormwater flow rate through BMP implementation to a rate equal to or less than conditions prior to project*

In 2021, KDOT developed and implemented the Stormwater Control Measure Manual. The purpose of this manual is to provide guidance on the design, construction, and maintenance of stormwater control measures (SCMs) within KDOT's right-of-way. Also known as best management practices (BMPs), SCMs are techniques used for post-construction stormwater management to reduce volume of stormwater runoff and prevent adverse water quality into local MS4s.

The Stormwater Control Measure Manual is required when a project disturbs one acre or greater of land during construction. The manual requires that the project site capture at least the first 0.50" of precipitation that falls over the project area. Once the post-construction requirement is triggered, SCMs should be given preference in the following sequence:

- ▶ Preference 1: Preserve or Re-Establish Vegetation
- ▶ Preference 2: Design Infiltration Practice
- ▶ Preference 3: Reduce Peak Flow Rates

Preference 1 prioritizes preserving or re-establishing vegetation along the project site. Table 2.2 of Section 2 provides the maximum loading ratio permitted for the SCM in this Preference. The loading ratio represents the impervious tributary area : SCM footprint. The following SCM is to be utilized for Preference 1:

- ▶ Stormwater Right-of-Way

Preference 2 prioritizes designing infiltration practices to capture the runoff volume. The stormwater runoff volume and the SCM volume is calculated to ensure the capture of the first 0.5" of precipitation that falls over the project area. The following SCMs are to be utilized for Preference 2:

- ▶ Infiltration Trench
- ▶ Bioretention

If Preference 1 or 2 cannot be implemented, the designer shall implement Preference 3 to reduce peak stormwater flow rate to a value equal to or less than the rate which would be experienced on the site prior to the project. The designer shall manage the stormwater runoff from the project site for a 50% probability exceedance event based on NOAA Atlas 14, 6-hour duration, median first quartile peak rainfall intensity to a 50% probability of exceedance, pre-project rate. The following SCMs are to be utilized for Preference 3:

- ▶ Detention Basin
- ▶ Constructed Wetland

***2021 Annual Report Update***

Developed in 2021, the Stormwater Control Measure Manual is used when a project disturbs one acre or greater of land during construction on a route within the permitted urbanized area. The purpose of this manual is to provide guidance on the design, construction, and maintenance of stormwater control measures (SCMs) within KDOT's right-of-way.

KDOT uploaded the Stormwater Control Measure Manual here:

<https://www.ksdot.org/bureaus/burMaint/StormWater/default.asp>

## Lbmp P-CSM - 02: Develop a List of Post-Construction Structural or Non-Structural BMPs

*Measurable Goal: Develop and implement list and guidance*

In 2021, KDOT developed and implemented the Stormwater Control Measure Manual. The purpose of this manual is to provide guidance on the design, construction, and maintenance of stormwater control measures (SCMs) within KDOT's right-of-way. Also known as best management practices (BMPs), SCMs are techniques used for post-construction stormwater management to reduce volume of stormwater runoff and prevent adverse water quality into local MS4s.

The Stormwater Control Measure Manual is required when a project disturbs one acre or greater of land during construction. The manual requires that the project site capture at least the first 0.5" of precipitation that falls over the project area. The following SCMs are listed in the Stormwater Control Measure Manual:

- ▶ Stormwater Right-of-Way
- ▶ Infiltration Trench
- ▶ Bioretention
- ▶ Detention Basin
- ▶ Constructed Wetland

Reference Section 3 of the Stormwater Control Measure Manual for a breakdown of the SCM types. This breakdown includes a brief description, benefits, design considerations, and maintenance activities. Table 3.1 of Section 3 includes a breakdown of SCM suitability by project site feature (e.g., narrow medians, interchange medians, low traffic areas, etc.).

The Stormwater Control Measure Manual requires designers to utilize the Stormwater Control Measure Form to determine and design the SCMs. This form is included with the manual and will be submitted to KDOT with the final package.

### ***2021 Annual Report Update***

Developed in 2021, the Stormwater Control Measure Manual is used when a project disturbs one acre or greater of land during construction. The purpose of this manual is to provide guidance on the design, construction, and maintenance of stormwater control measures (SCMs) within KDOT's right-of-way.

KDOT uploaded the Stormwater Control Measure Manual here:

<https://www.ksdot.org/bureaus/burMaint/StormWater/default.asp>

### **Lbmp P-CSM - 03: Develop and Implement a Program to Ensure Long-Term Operation & Maintenance of BMP Facilities**

*Measurable Goal: The program shall be detailed in a written document and made available to all pertinent maintenance staff*

During the permit duration, KDOT will develop and implement an Operations & Maintenance (O&M) Manual to ensure long-term operation & maintenance of BMP facilities. The purpose of the O&M Manual is to relay the importance of conducting routine maintenance and to provide SCM operational maintenance guidance. This program will require at least 10% of the SCMs to be inspected on an annual basis.

#### ***2021 Annual Report Update***

This BMP was not utilized during the reporting period.

## **Lbmp P-CSM - 05: Develop and Implement a Program for Inspection of Permittee Owned Structural BMPs**

*Measurable Goal 1: Program shall inspect at least 10% of structural BMPs annually*

*Measurable Goal 2: Maintenance activities shall be completed in the same year of inspection, as dictated by the O&M plan, etc.*

During the permit duration, KDOT will develop and implement an Operations & Maintenance (O&M) Manual to ensure long-term operation & maintenance of BMP facilities. The purpose of the O&M Manual is to relay the importance of conducting routine maintenance and to provide SCM operational maintenance guidance. This program will require at least 10% of the SCMs to be inspected on an annual basis.

### ***2021 Annual Report Update***

This BMP was not utilized during the reporting period.

# Kansas Department of Transportation

## Stormwater Management Plan



Minimum Control Measure:  
MCM5: Post-Construction Stormwater Management

Permit Year:  
2021

BMP	Summary	Measurable Goal	KDOT Availability		Reference	How to Report	Claimed	
			Applicable	Points			2021	Points
Lbmp P-C S M - 01	<p>Develop and adopt a custom design manual for Post-Construction Stormwater Management which specifies various structural BMPs which are required for projects where 1 acre or greater is disturbed during construction.</p> <p>Alternatively, adopt and implement the APWA 5600 Stormwater Design Criteria and the MARC/APWA BMP Manual.</p>	<p>The custom design manual shall impose requirements to achieve at least one of the following standards:</p> <p>*Capture at least the first 0.5" of precipitation on the project site, and utilize methods to prevent discharge off site, including but not limited to: retain on-site; infiltrate; evaporate; transpire; beneficial reuse</p> <p>*Through permanent BMP implementation, reduce the peak stormwater flow rate to a value equal to or less than the rate which would be experienced on the site prior to the project based on modeling a standard storm event (i.e. 1", 6 hr assuming saturated soil conditions).</p>	Yes	4	<a href="#">KDOT's Stormwater Control Measure Manual (New)</a>	<p>1. <u>Stormwater Management Plan</u>: -Describe the Stormwater Control Measure Manual</p> <p>2. <u>Annual Report</u>: -Save a copy of the Stormwater Control Measure Manual for record keeping -Include link to KDOT's website where it is uploaded</p>	<input checked="" type="checkbox"/>	4
Lbmp P-C S M - 02	<p>Develop a list of post-construction structural or non-structural BMPs which are required to be incorporated in any project. The list must include guidance regarding the BMPs which must be incorporated in various projects as determined appropriate by the permittee. The list is to be provided to entities involved with the design of projects prior to site plan review by the permittee.</p>	<p>Development and implementation of the list and guidance is necessary to claim points in year 1; the list must be enforceable.</p>	Yes	3	<a href="#">KDOT's Stormwater Control Measure Manual (New)</a>	<p>1. <u>Stormwater Management Plan</u>: -Describe the Stormwater Control Measure Manual</p> <p>2. <u>Annual Report</u>: -Save a copy of the Stormwater Control Measure Manual for record keeping -Include link to KDOT's website where it is uploaded</p>	<input checked="" type="checkbox"/>	3



2021 - Post-Construction Stormwater Management	
Available Points	7
Requirement	5
Claimed Points	7
Meets Requirements	Yes

Future Efforts	
Lbmp P-C S M - 03	2023: Develop an Operations & Maintenance (O&M) Manual to maintain longevity of BMP systems
Lbmp P-C S M - 05	2023: Develop an Operations & Maintenance (O&M) Manual to maintain longevity of BMP

# STORMWATER CONTROL MEASURE MANUAL

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VERSION 1



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## **MCM6: Pollution Prevention / Good Housekeeping**

KDOT implements a combination of pollution prevention and good housekeeping practices at its facilities and within the KDOT maintained right-of-way within the urbanized areas as defined by the permit. KDOT recognizes the benefits of pollution prevention practices and has developed measurable goals to satisfy BMP requirements and that can also be implemented throughout KDOT facilities.

Reference Table 6.1 below for a list of available BMPs for implementation and their respective descriptions.

**Table 6.1 - Available BMPs**

Lbmp P P/G H	KDOT Applicability		Description
	Existing	Future	
01	No	No	Install a screening device at an MS4 outfall
02	Yes	Yes	Implement recycle and proper waste disposal program
03	Yes	Yes	Develop a guidance document for applying pesticides
04	Yes	Yes	Proper disposal of vehicle & equipment washing
05	Yes	Yes	Implement a Street Sweeping Program
06	Yes	Yes	Develop staff training program to minimize stormwater pollution
07	Yes	Yes	Develop a program to inspect stormwater inlets
08	Yes	Yes	Develop and maintain an online storm sewer map
09	No	No	Identify facilities that can be retrofitted for stormwater BMPs
10	No	No	Install a constructed wetland at an industrial/commercial facility
11	No	No	Install a covered area for de-icing chemicals
12	No	No	Install a system for capturing trash, sediment, or debris at outfalls

BMPs identified as applicable to KDOT are described in the following subsections.

## Lbmp P P/G H - 02: Implement Recycle and Proper Waste Disposal Program

*Measurable Goal: Provide log that details weight or volume of materials and date of transport*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

Section 12.43 of the Highway Maintenance Manual requires KDOT to monitor the following items on project construction sites:

- ▶ Mud pit waste
- ▶ Solvents in paint waste
- ▶ Paint waste from highway striping removal operation
- ▶ Oil burner
- ▶ Wastewater stabilization
- ▶ Waste determination:
  - Special waste: requires special handling, trained professionals, and/or special disposal methods
  - Universal waste: contains materials that can be elevated to potentially hazardous waste
  - Orphaned waste: potentially hazardous waste found in containers that have been illegally dumped
  - Hazardous waste: poses potential threats to public health or environment
    - Characteristics: flammable, reactive, corrosive, and/or toxic
- ▶ Lead based paint content

Reference Section 12.44 for a list of forms and letter that KDOT utilizes for determining how to address waste determination and disposal on project construction sites and at KDOT facilities. The forms include the following:

- ▶ KDOT Guidance to Determining Hazardous Waste
- ▶ KDOT Wash Bay Checklist for Handling Mud Trap
- ▶ KDOT Wash Bay Checklist for Water Removal
- ▶ KDOT Checklist for Handling Orphaned Waste
- ▶ KDOT Guidance for Universal Waste
- ▶ KDHE Special Waste Disposal Request Form
- ▶ Letter to Request Special Waste Authorization

***2021 Annual Report Update***

Guidance regarding KDOT processes to address waste determination and disposal can be found in the Highway Maintenance Manual, section 12.43. The Highway Maintenance Manual (aka KDOT Maintenance Manual) is available to all KDOT employees through the intranet.

Also available to all KDOT employees through the intranet are the checklists regarding waste determination and disposal on project sites and at KDOT facilities.

## **Lbmp P P/G H - 03: Develop a Guidance Document for Applying Pesticides**

*Measurable Goal: Require usage of pesticides to comply with the guidance document*

Section 4.5 of KDOT's Highway Maintenance Manual requires the application of pesticides to be done by a licensed sprayer under the Kansas Department of Agriculture. Pesticides includes both herbicides and pesticides. Applying herbicides provides an effective and efficient method of managing roadside vegetation.

### **2021 Annual Report Update**

Guidance regarding pesticide application and usage can be found in the Highway Maintenance Manual, Section 4.5. The Highway Maintenance Manual (aka KDOT Maintenance Manual) is available to all KDOT employees through the intranet.

For 2021, KDOT contracted pesticide application within the MS4 areas: Wyandotte and Johnson counties, within the Kansas City urbanized area. Within the other urbanized areas, KDOT contracts with the respective county noxious weed management staff for pesticide application. The following County Noxious Weed Department are contracted with KDOT: Doniphan, Douglas, Riley, Sedgwick and, Shawnee. Contract language includes requirements for application by a licensed sprayer under the Kansas Department of Agriculture.

## **Lbmp P P/G H - 04: Proper Disposal of Vehicle & Equipment Washing**

*Measurable Goal: Develop guidance for vehicle and/or equipment washing and proper water disposal*

For KDOT facilities with wash bays, all equipment and vehicles are to be washed on site. KDOT's wash bays are connected to sanitary sewer via a three-compartment sediment separator. The purpose of the sediment separators is to filter water before it enters the sanitary sewer system. KDOT built these facilities in the 1990's.

For KDOT facilities without wash bays, equipment and vehicles must be taken to another KDOT facility with a wash bay or to a commercial car wash facility.

Reference Section 12.44 of KDOT's Highway Maintenance Manual for checklists utilized for addressing waste disposal at wash bays:

- ▶ KDOT Guidance to Determining Hazardous Waste
- ▶ KDOT Wash Bay Checklist for Handling Mud Trap
- ▶ KDOT Wash Bay Checklist for Water Removal

### ***2021 Annual Report Update***

Guidance regarding vehicle washing can be found in the Highway Maintenance Manual, section 12.44. The Highway Maintenance Manual (aka KDOT Maintenance Manual) is available to all KDOT employees through the intranet.

Also available to all KDOT employees through the intranet are the checklists handling mud trap and water removal at KDOT wash bays.

## Lbmp P P/G H - 05: Implement a Street Sweeping Program

*Measurable Goal: Provide a schedule for street sweeping*

*Measurable Goal 2: Provide information on street sweeping activity*

To remove debris such as sand and dirt from paved surfaces, shoulders, curbs, gutters, and median barriers KDOT utilizes mechanical sweeping. Sweeping includes the following benefits: maintains clean highways, improves aesthetic appeal, improves safety, prolongs infrastructure lifespan, protects the environment by reducing pollutants, and lessens maintenance cost.

If street sweeping is contracted out, contractors are responsible for disposal. If street sweeping is performed by KDOT, the collection is incorporated into fill material or disposed of at the local landfill.

For the duration of this permit, a record of street sweeping activities is kept at the Area office, with the Area office managing street sweeping activities.

### **2021 Annual Report**

Reference Table 6. for the frequencies at which each urbanized area, KDOT right-of-way is swept.

**Table 6.2 – Sweeping Frequencies per Urbanized Area**

Urbanized Area	Frequency
Kansas City	Twice/Month
Lawrence	Once in May & October
Manhattan	Once in May & October
Topeka	Once in May & October
Wichita	Twice/Month

Sweeping in the Lawrence and Topeka urbanized areas is performed by KDOT along the applicable routes (US 59 bridge, north; K-10; I-70 barrier wall; US 75 bridge; Polk Quincy viaduct). Sweeping services are contracted out in the remaining urbanized areas (Manhattan (US 24; K-18; K-113), Wichita (US 54; I-135; I-235; K-15; K-96), Kansas City (I-35, I-70, I-435, I-635, I-670, US69, and K-10)).

KDOT contracted Kasper, LLC to provide sweeping services focused on the Kansas City metro starting in October 2021. Crews will work overnight Monday through Thursday from 10pm to 8am. The sweeping services will be provided for approximately 160 miles along major highway corridors in both Johnson and Wyandotte counties. Reference the following memo for additional information: [Litter Removal and Sweeping Services Clean up KC Metro Roadways](#). Table 6.3 provides information on street sweeping expenditures.

**Table 6.3 – Summary of Street Sweeping Expenditures**

Year	Location	Contracted Annual Expenditure (\$)
2021	Wichita Urbanized Area	\$582,875
2021	Kansas City Urbanized Area*	\$147,719

\*Contract initiation in October 2021

## Lbmp P P/G H - 06: Develop Staff Training Program to Minimize Stormwater Pollution

*Measurable Goal: Provide guidance documents, in-person training, or videos*

### **Construction Stormwater Training**

KDOT partners with Kansas State University Salina Aerospace and Technology Campus to provide construction stormwater training for KDOT employees, consultants, and contractors. K-State offers online courses, online certification exams, and in-person field trainings. Some instructors include KDOT employees.

For those conducting site inspections for compliance with the KDHE general permit, this training is required per KDOT policy. KDOT also requires this training for water pollution control managers (WPCM) and those with the responsibility for SWPPP review and approval.

Learning objectives include:

- ▶ Basic principles of erosion, sediment control and non-stormwater/waste management control
- ▶ NPDES permit requirements
- ▶ Stormwater related KDOT plans, specifications, and procedures
- ▶ Inspection requirements and procedures
- ▶ Common compliance issues
- ▶ BMP installation and inspection (field demonstration)

Located at Seeders Inc in Wichita, Kansas, the field day includes a 3-hour morning or afternoon session. Attendees will gain hands-on experience with proper device installation and inspection, stockpile management, stabilization practices, seed and equipment, and SWPPP inspection requirements.

The exam consists of 40 multiple choice questions and lasts for a duration of one hour. A minimum score of 70% is required to pass. If a minimum score is not achieved, test takers may retake the exam but will be required to wait until the next testing session. This certificate is valid for four years after successfully completing the construction stormwater training.

More information regarding this training can be found here: <https://www.salina.k-state.edu/research-training/training-professional-development/certified-inspector-training/courses/construction-stormwater-training.html>

### **Stormwater Awareness Training**

All KDOT maintenance staff are required to complete the Stormwater Awareness Training on an annual basis. This training is available through KDOT's Learning Management Center.

### **Spill Prevention, Control, and Countermeasure (SPCC) Plan Training**

SPCC Plan training is available to KDOT employees through the Learning Management Center. The purpose of this training is to provide guidance to KDOT employees regarding oil spills and preventing spills from discharging into Waters of the US.

### **Facility Training**

For employees located at KDOT facilities, training during the permit period will be provided to disseminate knowledge regarding stormwater pollution prevention as part of a respective facilities. This training focuses on sediment and erosion control, spill prevention and cleanup methods, and good housekeeping measures.

### **2021 Annual Report Update**

Registration for construction stormwater training began on September 15, 2021. Due to COVID-19, K-State offered a hybrid approach of both online and in-person instruction. For the 2021 permit year, the following dates were offered:

- ▶ Online written exam dates:
  - March 23, 24, 25, 2021
  - April 27, 28, 29, 2021
  - May 25, 26, 27, 2021
  - October 26 - 27, 2021
- ▶ In-person field training dates:
  - October 26 - 27, 2021

The annual Stormwater Awareness Training is available through the KDOT Learning Management Center. The training must be completed by December 31<sup>st</sup>. Table 6.4 summarizes participation in the training for 2021.

**Table 6.4 – Summary of Stormwater Awareness Training Participation, 2021**

KDOT Facility	Total Participants Completing Training
District 1	228
District 2	169
District 3	140
District 4	183
District 5	194
District 6	105
Headquarters	48
Inactive Employment	35
<b>Grand Total</b>	<b>1,102</b>

The Spill Prevention, Control, and Countermeasure (SPCC) Plan Training was held as part of safety meetings at each Area during 2021.

## Lbmp P P/G H - 07: Develop a Program to Inspect Stormwater Inlets

*Measurable Goal: Inspect at least 5% of all inlets annually, remove accumulated debris*

The purpose of the MQA program is to identify and prioritize maintenance projects and resources. According to the Maintenance Quality Assurance Program Manual (page 28), thirty 0.1-mile sample segments per maintenance subarea are randomly selected using the CANSYS database and rated against a level of service (LOS) criteria. These inspections occur annually in October. Upon completion, KDOT compares the resulting LOS to the target LOS values. The five maintenance categories include travelway, traffic guidance, shoulders, drainage, and roadside.

Drainage is broken up into the following elements: curb & gutter, ditch, erosion control devices, culverts & pipes (excludes serial numbered structures), edge & underdrains, and inlets. A weighting factor of 14% is applied to drainage when determining the LOS. The statewide/district targeted LOS for drainage is 85.

As defined in KDOT's MQA Manual, drainage inlets are structures through which the water enters the drainage culverts and pipes. A grate or access cover is used to trap/prevent entry of debris. For inlets to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of cavity per structure is free of debris & operates as intended
- ▶ The inlet grate and access cover are present, where applicable
- ▶ The unit is structurally sound

Inspections are documented through the MQA inspection form. The purpose of the form is to record whether each element meets the associated LOS criteria. Upon completion, copies of these forms are sent to District MQA committee members and Area Superintendents. The inspection results are reported into KDOT's Report Portals. Original copies of the form are maintained for one-year.

### ***2021 Annual Report Update***

KDOT manages a report of MQA program roadway segments completed annually. This list for 2021 is provided in the documentation for each urbanized area.

## Lbmp P P/G H - 08: Develop and Maintain an Online Storm Sewer Map

*Measurable Goal: Map shall cover entire MS4 within the permit area and include all pipes, open drainage, and impaired waterways*

### ***MS4 Stormwater Outfall Inventory Maps***

KDOT maintains stormwater outfall inventory maps in PDF format. These maps identify locations where KDOT's stormwater systems in applicable urbanized areas discharge into stream, lakes, and wetlands. The maps cover the following regulated urbanized areas:

- ▶ Kansas City
- ▶ Lawrence
- ▶ Manhattan
- ▶ Topeka
- ▶ Wichita

Reference the following link to find the maps on KDOT's Stormwater Management Program website:

<https://www.ksdot.org/bureaus/burMaint/StormWater/SWOutfallInventMaps.asp>.

### ***Transportation Planning – State System Map***

KDOT developed and maintains an ArcGIS map available in Map Viewer through the KDOT website dedicated to locating bridges and culverts greater than 10-feet in diameter (10'-20' series culverts) within the state of Kansas.

This map is made available to the public on KDOT's website:

<https://ksdot.maps.arcgis.com/home/index.html>.

Additional detailed bridge information and inspection data is available for KDOT internal use only. Each structure mapped includes the following information, linked to internal KDOT databases:

- ▶ Structure log
- ▶ Structure information report
- ▶ Bridge inspection form
- ▶ Structural Inventory and Appraisal (SI&A) report

Mapped culverts greater than 10-feet in diameter include linked database fields such as built date, design load, and box height. Inspection records for these structures are available through KDOT internal databases.

### ***Stormwater Management Map***

For the duration of this permit, the Transportation Planning – State System Map will also function as KDOT's Stormwater Management Map. Currently, the ArcGIS map only includes bridges and culverts greater than 10-feet in diameter. Culverts and pipes less than 10' in diameter are documented and tracked in a separate system. KDOT is currently identifying options to existing processes to efficiently store data in one platform.

**2021 Annual Report Update**

Reference the MS4 Stormwater Outfall Inventory Maps online at <https://www.ksdot.org/bureaus/burMaint/StormWater/SWOutfallInventMaps.asp>. Reference KDOT's Transportation Planning – State System Map, State Bridges and Culverts layers at <https://ksdot.maps.arcgis.com/home/index.html>.

# Kansas Department of Transportation

## Stormwater Management Plan



Minimum Control Measure:  
MCM6: Pollution Prevention / Good Housekeeping

Permit Year:  
2021

BMP	Summary	Measurable Goal	KDOT Availability		Reference	How to Report	Claimed	
			Applicable	Points			2021	Points
Lbmp P P/G H - 02	Implement a recycle and property waste disposal program for municipal staff to reduce potential for litter, to recycle waste oil, batteries, glass containers, plastic containers, and paper products.	Log of materials. Entries in the log shall record the following: -Weight or volume of recycle materials -Date of transport	Yes	3	KDOT Highway Maintenance Manual	1. <u>Stormwater Management Plan:</u> -Describe waste determination & respective checklists (special waste, universal waste, orphaned waste, & hazardous waste)  2. <u>Annual Report:</u> -Save guidance and checklist forms -Save Highway Maintenance Manual	<input type="checkbox"/>	3
Lbmp P P/G H - 03	Develop a guidance document for municipal staff or third-party contractors which apply pesticides. The guidance shall require any municipal staff who apply restricted use pesticides, to have a commercial applicator certification from the KDA if required by that department.	Require staff which apply pesticides to use such pesticides in compliance with the guidance document.	Yes	2	KDOT Highway Maintenance Manual	1. <u>Stormwater Management Plan:</u> -Describe herbicide program and spraying requirements  2. <u>Annual Report:</u> -Provide list of counties KDOT contracted pesticide application for -Save Highway Maintenance Manual	<input checked="" type="checkbox"/>	2
Lbmp P P/G H - 04	Implement a program with guidance to municipal staff or third-party contractors, to ensure any municipal vehicle or other mechanical equipment washing is conducted in a manner which ensures the wash water is disposed of in the sanitary sewer or otherwise receives proper treatment prior to discharge to the environment.	Maintain proper wash facilities for staff to wash vehicles and/or equipment or implement a program which includes guidance to municipal staff to take vehicles and/or equipment to commercial wash facilities, either of which ensures the wash water is conveyed to the sanitary sewer, or otherwise receives proper treatment prior to discharge to the environment.	Yes	2		1. <u>Stormwater Management Plan:</u> -Describe vehicle and equipment washing process -Describe disposal of water  2. <u>Annual Report:</u> -Save copy of Facility Stormwater Plan	<input checked="" type="checkbox"/>	2

Lbmp P P/G H - 05	Implement a program for street sweeping in which the street sweepings are collected and disposed of properly or recycled/reused if possible	Schedule for street sweeping  Log of the following: -Where occurred -Date occurred -Where material is disposed -Where material was sent to be recycled/reused	Yes	2	<a href="#">Memo - Litter Removal and Sweeping Services Clean up KC Metro Roadways</a>	1. <u>Stormwater Management Plan:</u> -Describe street sweeping process  2. <u>Annual Report:</u> -Save a copy of the Street Sweeping Frequency, Costs incurred	<input checked="" type="checkbox"/>	2
Lbmp P P/G H - 06	Develop an employee training program to ensure permittee's staff understand what actions they can take in the workplace to minimize stormwater pollution	Provide guidance documents in the form of either fact sheets, flyers or emails to staff to coach them in appropriate actions they can take while working toward minimizing stormwater pollution.  Provide in-person training or videos with sign-in sheets. Provide log of when distributed or when the training was held.	Yes	1	<a href="#">Kstate Polytechnic Campus - Construction Stormwater Training</a>  <u>Internal Trainings:</u> -Stormwater Awareness Training -SPCC Training	1. <u>Stormwater Management Plan:</u> -Describe Construction Stormwater Training course -Describe internal trainings  2. <u>Annual Report:</u> - <i>CSW Training: Include dates of exam and field training</i> - <i>Stormwater Awareness Training (attendees)</i> - <i>SPCC Training (dates held)</i>	<input checked="" type="checkbox"/>	1
Lbmp P P/G H - 07	Implement a program to inspect stormwater inlets to identify illicit discharges and clean drop inlets of accumulated debris.	Inspect at least 5% of all inlets annually.  If 10% of all inlets are inspected in a year additional points may be claimed.	Yes	1	<u>MQA Software:</u> -0.1-mile segments -Drainage: 14% WF -Ditch, culverts/pipes, inlets, etc.	1. <u>Stormwater Management Plan:</u> -Include program details  2. <u>Annual Report</u> -Describe and save MQA List	<input checked="" type="checkbox"/>	1
Lbmp P P/G H - 08	Develop, implement and keep updated an online storm sewer map accessible to the public	Map shall cover the entire MS4 within the permit area and include all the MS4 lines both pipe and open drainage; shall illustrate all impaired waterways, with documentation of listed impairment.	Yes	3	<a href="#">MS4 Stormwater Outfall Inventory Maps</a>  <a href="#">KDOT Transportation Planning - State System Map</a>	1. <u>Stormwater Management Plan:</u> -Include information regarding the updated map (e.g. additions, purpose,etc.)  2. <u>Annual Report:</u> -Include link to GIS map	<input checked="" type="checkbox"/>	3



2021 - Pollution Prevention / Good Housekeeping	
Available Points	14
Requirement	4
Claimed Points	14
Meets Requirements	Yes



# 2016 Highway Maintenance Manual



# KDOT MAINTENANCE MANUAL

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# KANSAS DEPARTMENT OF TRANSPORTATION BUREAU OF MAINTENANCE

## COUNTY AGREEMENT TO TREAT NOXIOUS WEEDS

This agreement made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the Board of County Commissioners of \_\_\_\_\_ County, hereinafter referred to as County, and the Kansas Secretary of Transportation, hereinafter referred to as Secretary. The Kansas Department of Transportation hereinafter is referred to as KDOT.

**WHEREAS**, The Kansas Legislature has declared certain weeds to be Noxious Weeds (see Kansas Noxious Weed Law), and

**WHEREAS**, The County desires to treat noxious weed infested areas on State Highway Rights-of-Way within said County and the KDOT desires to retain the County to spray and treat such areas, and

**WHEREAS**, The Secretary and County agree to enter into a performance agreement, where in the County shall treat all noxious weeds on State Highway rights-of-way in the County. A condition of the fulfillment of the agreement requires that treatment by the County will provide a satisfactory control of the noxious weeds. Satisfactory performance is defined as preventing the production of viable seed and/or destroying the plant's ability to reproduce by vegetative means.

**NOW, THEREFORE**, in consideration of the premises, the parties hereto agree as follows:

1. The county will notify the KDOT District Engineer or the authorized representative, prior to each treatment on highway right-of-way, of the scheduled time and location of such treatment.
2. The County spraying operation may include a dye in the chemical mixture to allow easy identification of areas treated.
3. A representative of the KDOT shall make periodic field inspections to check treated areas. A field log and record will be maintained by the KDOT indicating dates treated and inspected, location and size of areas, type of noxious weeds, apparent affect of treatment and other pertinent comments. Approval by the KDOT representative shall be required before the County will be paid for treatment.
4. Schedule of Cost: The County shall provide all chemicals (includes herbicides, surfactants and drift control materials as required), dye, labor and equipment to treat noxious weeds. Chemicals and dye are to be provided at the County's cost. Labor and equipment costs are as follows:

LABOR COST	COST	*EQUIPMENT RENTAL TYPE AND SIZE
_____ /hr. operator	_____ /hr.	_____
_____ /hr. operator	_____ /hr.	_____
_____	_____	_____

\*Spraying equipment will have cab mounted flashing (or rotating) safety lights

5. Billing and Payment: The County shall submit to the KDOT District Engineer an itemized bill for wholesale cost of chemicals and dye furnished, plus actual cost of treating noxious weeds based on equipment rental and labor costs for areas of satisfactory performance. Upon receipt of proper billing and final approval, payment for treating noxious weeds will be made to the County by the KDOT.
6. Record of Work: The County representative doing the work shall:
  - Record size, location and type of noxious weed areas treated.
  - Record amount and kind of chemicals applied on each area.
  - Record dates chemicals were applied.
  - Maintain Report of Noxious Weed Treatment DOT FORM NO. 322-A, which shall be submitted to the KDOT within 1 to 2 weeks after treatment.
  - Maintain records until all claims are paid, but in no case less than the three year statutory time.
  - Make all records available for KDOT audit, when so requested by KDOT.

7. Chemicals, approved for use on highway right-of-way are listed below.

<u>CHEMICAL</u>	<u>TRADE NAME</u>	<u>RATE OF APPLICATION (metric)</u>
2, 4-D (amine or ester) (a)	numerous	1 to 2 lb. Equiv./acre (1.1 to 2.2 kg/ha)
Glyphosate (b)	numerous	1 1/2 lb. Equiv./acre (1.7 kg/ha)
MSMA	numerous	3 to 5 lb. Equiv./acre (3.8 to 5.6 kg/ha)
Sulfometuron (c)	Oust	3 to 6 ounces/acre (.21 to .42 kg/ha)
Picloram	Tordon	rate depends upon weed species
Chlorsulfuron	Telar	1/2 to 1 oz./acre (0.035 to 0.070 kg/ha)
Imazapyr	Arsenal/Habitat	1/4 lb. Active/acre (0.28 kg/ha)
Metsulfuron Methyl	Escort	rate depends upon weed species
Triclopyr (d)	Garlon	1/4 to 1/2 lb./acre (0.28 to 0.56 kg/ha)
Fluizafop P butyl + Fenoxiprop	Fusion	7 to 9 fl. oz. per acre (83.8 to 107.75 ml/ha)
Imazapic (e)	Plateau	rate depends upon weed species
Quinclorac (f)	Paramount/Drive	rate depends upon weed species and desirable grass species
Sulfosulfuron (g)	Outrider	rate depends upon desirable grass species
Aminopyralid (h)	Milestone Vista XRT	rate depends upon weed species
Fluroxypyr		follow the product label recommendations

- (a) May be used alone or in combination with other herbicides
- (b) (Round-up)
- (c) Spot treatment only
- (d) Sericea lespedeza
- (e) Do not use where cool season grasses are the desired species
- (f) Fall bindweed control
- (g) Do not use for more than 3 consecutive seasons
- (h) Musk, bull and Canada thistle

There may be other trade names for the herbicides listed.

- 8. Chemicals shall be mixed and applied as recommended by the manufacturer and in accordance with approved methods contained in the "Official Regulations" issued by the Kansas Department of Agriculture.
- 9. The County agrees to provide this service in a workmanlike manner, to be in strict conformance with the instructions for handling and applying noxious weed chemicals and to be responsible for any negligent acts or omissions that may occur in the performance thereof.
- 10. The County's spraying equipment shall be equipped with cab mounted amber high-intensity rotating, flashing, oscillating, or strobe light. Safety lights shall be visible from all directions and not obstructed from view by tanks and equipment mounted to or towed behind the spraying equipment. If a safety concern has been raised, and at the direction of KDOT personnel, the County will be responsible for supplying and placing of traffic control signs for a mobile operation per Chapter I of the KDOT Highway Sign Manual. All workers shall wear approved safety vests according to 23 CFR 634, "Worker Visibility".
- 11. This agreement shall terminate December 31st of this year, except records shall be maintained in accordance with Section Six above. Termination may be sooner by a ten day written notice from either party to the other. It is agreed further that this contract can be renewed for three consecutive years at the option of the Secretary upon a 30-day written notice to the contractor prior to December 31st of the current year. The contractor and the Secretary agree that all terms of the renewal will remain the same unless either party determines that the price of the chemicals should be re-negotiated.

This agreement is officially adopted by the Board of County Commissioners and recorded in the official records of the proceedings of said Board.

In witness whereof the parties have caused this Agreement to be executed by their duly authorized officers or representatives.

SECRETARY OF TRANSPORTATION

THE BOARD OF COUNTY COMMISSIONERS

BY \_\_\_\_\_  
District Engineer

BY \_\_\_\_\_  
Title:

## **MCM7: Total Maximum Daily Load (TMDL) Regulated Pollutants**

### **Part 1.D:**

The section of the SMP applies to the following permit numbers: M-KS27-SU01; M-KS31-SU02; M-KS72-SU02; M-KS38-SU01; M-AR94-SU02. The purpose of this section is to provide an update per the permit requirement as discussed in Part I.D of the effective permit(s).

KDOT will implement Stormwater Control Measures (SCM) per the requirements of Part I.C.5, and as described in KDOT's effective SCM manual. This will evaluate opportunities for SCM implementation, consisting of both structural and non-structural BMP options, within existing KDOT maintained right-of-way within the urbanized area as described in the effective permit. Figure 1 through Figure 5 identifies the KDOT owned and operated corridors for each applicable permitted area.

KDOT owns and maintains only the right-of-way area as shown on each figure within each of the urbanized areas. The adjoining land is managed by other jurisdictions, under a separate permitting authority. KDOT only has jurisdiction within the limits of its right-of-way.

### **Update, Best Management Practices (BMP)**

KDOT has developed a SCM manual applicable within the KDOT maintained right-of-way, within the permit defined area. This manual is implemented per the requirements stated in Part I.C.5. The SCM manual includes:

- Descriptions of preferred SCMs
- Design guidelines for SCMs
- Submittal guidelines for SCMs
- Effectiveness of SCMs. KDOT is referencing the *National Cooperative Highway Research Program (NCHRP) Research Report 922, Stormwater Infiltration in the Highway Environment: Guidance Manual, 2019* for the effectiveness of SCMs in the highway right-of-way environment.
- Inspection and maintenance activities for SCMs.

SCMs will be implemented over time within the right-of-way, as part of other KDOT projects per the requirements of Part I.C.5. KDOT project opportunities for SCM include a preference to preserve existing vegetated areas and utilizing the right-of-way for stormwater management. KDOT's regular maintenance of SCMs will preserve the functionality of this infrastructure. Effectiveness will be monitored through regular inspection and maintenance activities.

### **Update, Measurable Goals to Assess the Effectiveness of the TMDL BMPs**

Surface water monitoring and reporting is not required of KDOT, as stated in Part II of the effective permits. KDOT is meeting TMDL measurable goals to the maximum extent practicable through implementation of SCMs as part of KDOT projects within the permit areas, over a period of time.

### **Update, Maps shall be developed and maintained**

Figure 6 through Figure 10 include the following information, as required per Part I.D.3: permit area, watershed boundaries, KDOT maintained bridges and culverts, and TMDL impaired water body, as listed in the permit, *Part II TMDL Table*, and in Table 1.

**Figure 1 – Kansas City Urbanized Area, KDOT Right-of-Way**

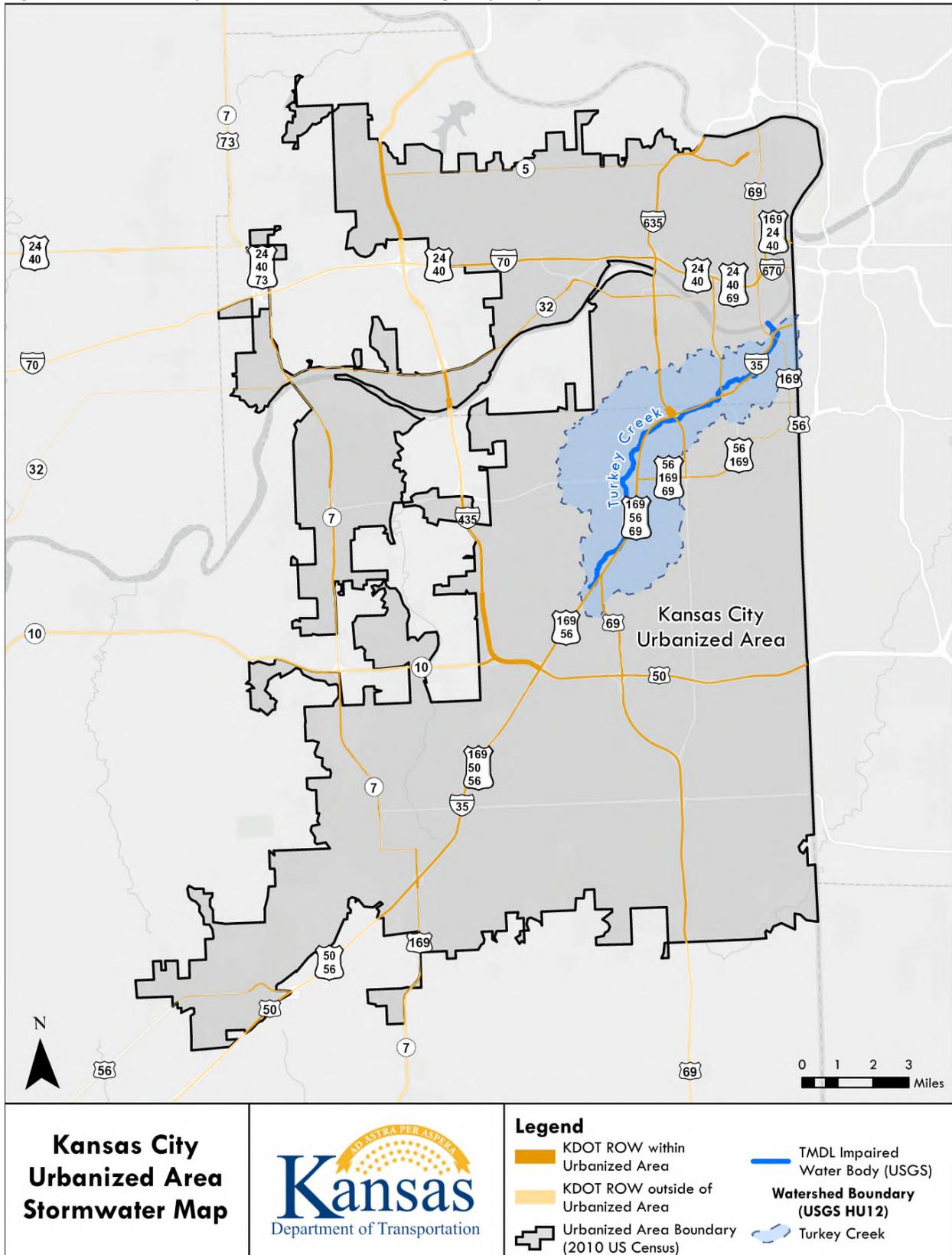
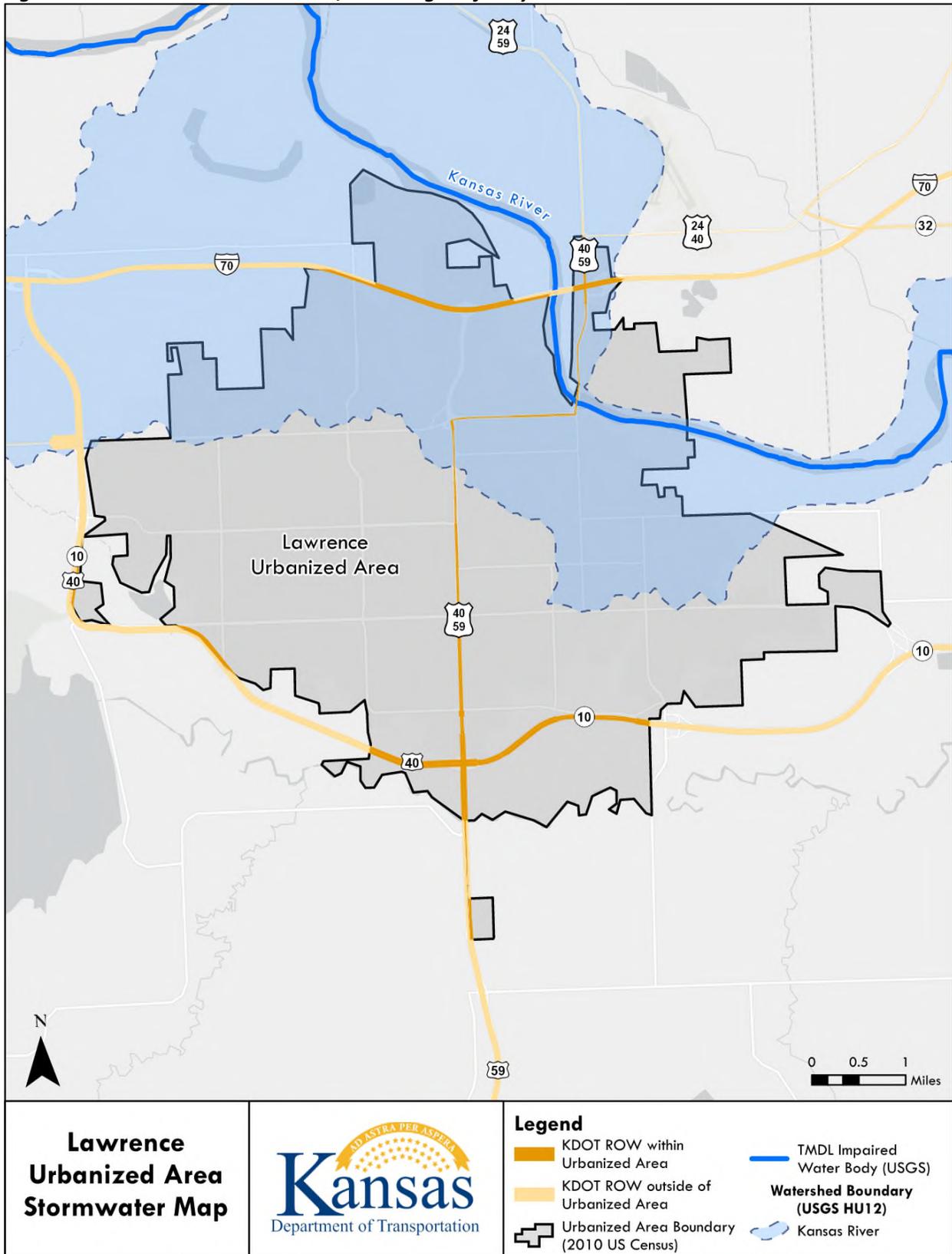


Figure 2 – Lawrence Urbanized Area, KDOT Right-of-Way



**Figure 3 – Manhattan Urbanized Area, KDOT Right-of-Way**

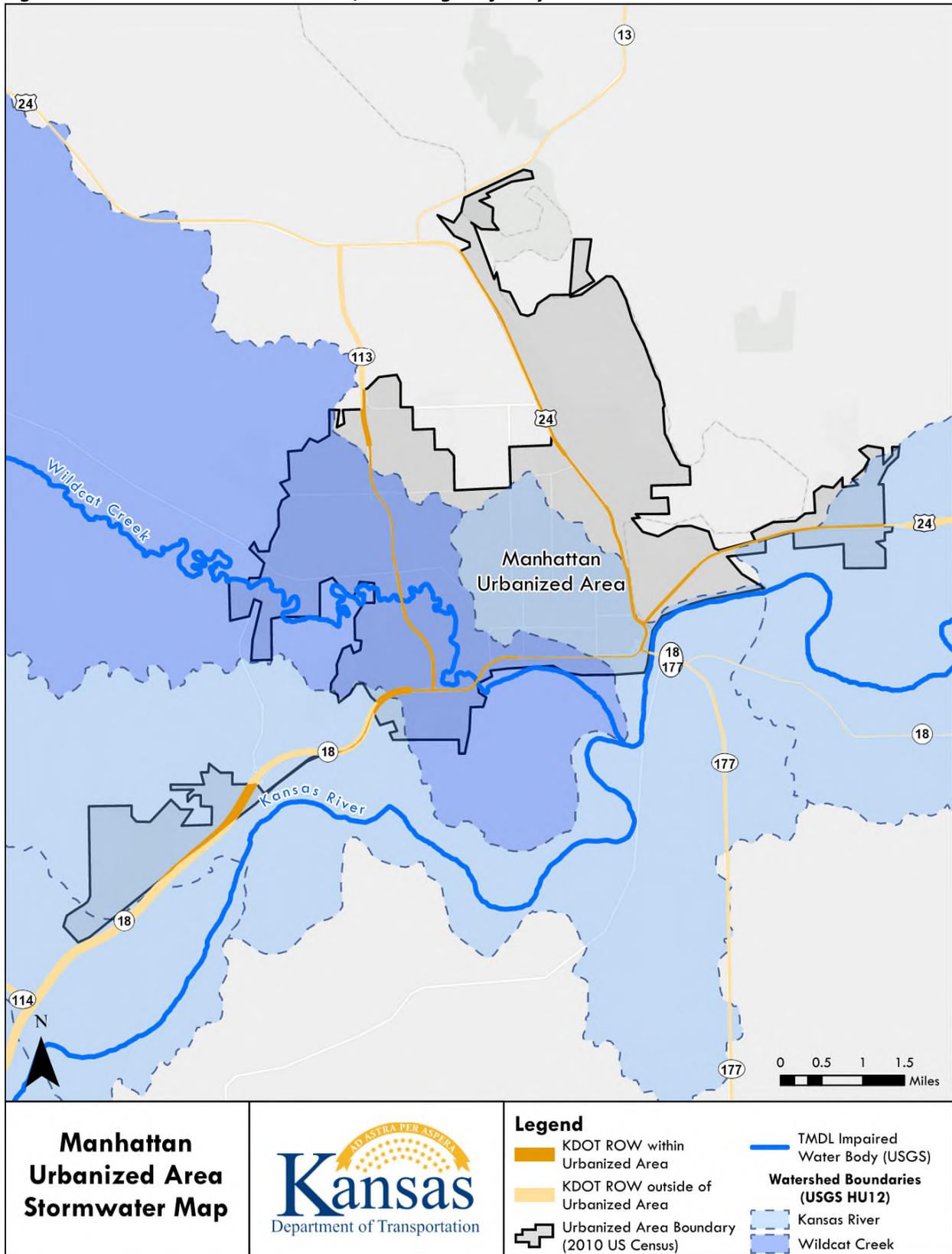


Figure 4 – Topeka Urbanized Area, KDOT Right-of-Way

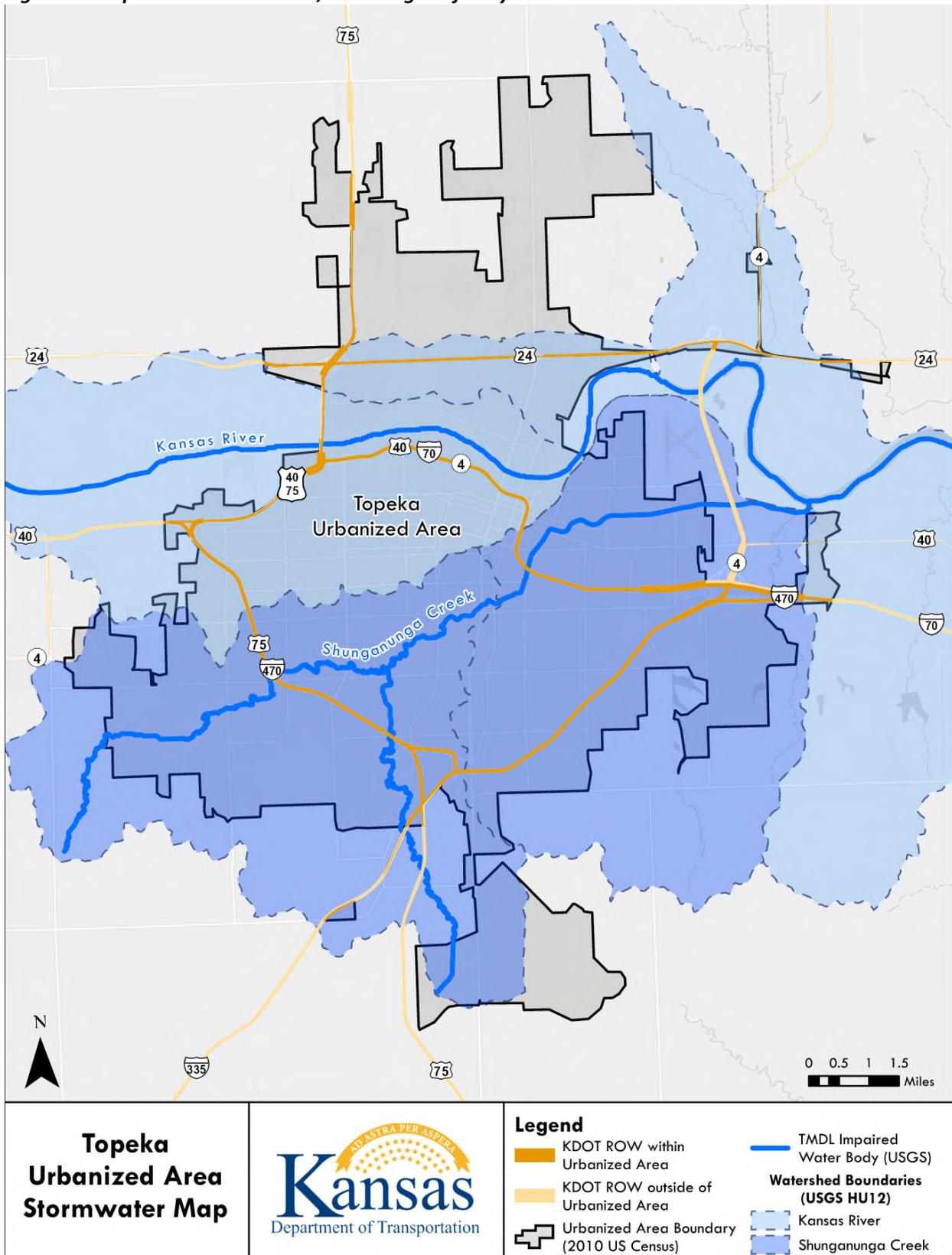


Figure 5 – Wichita Urbanized Area, KDOT Right-of-Way

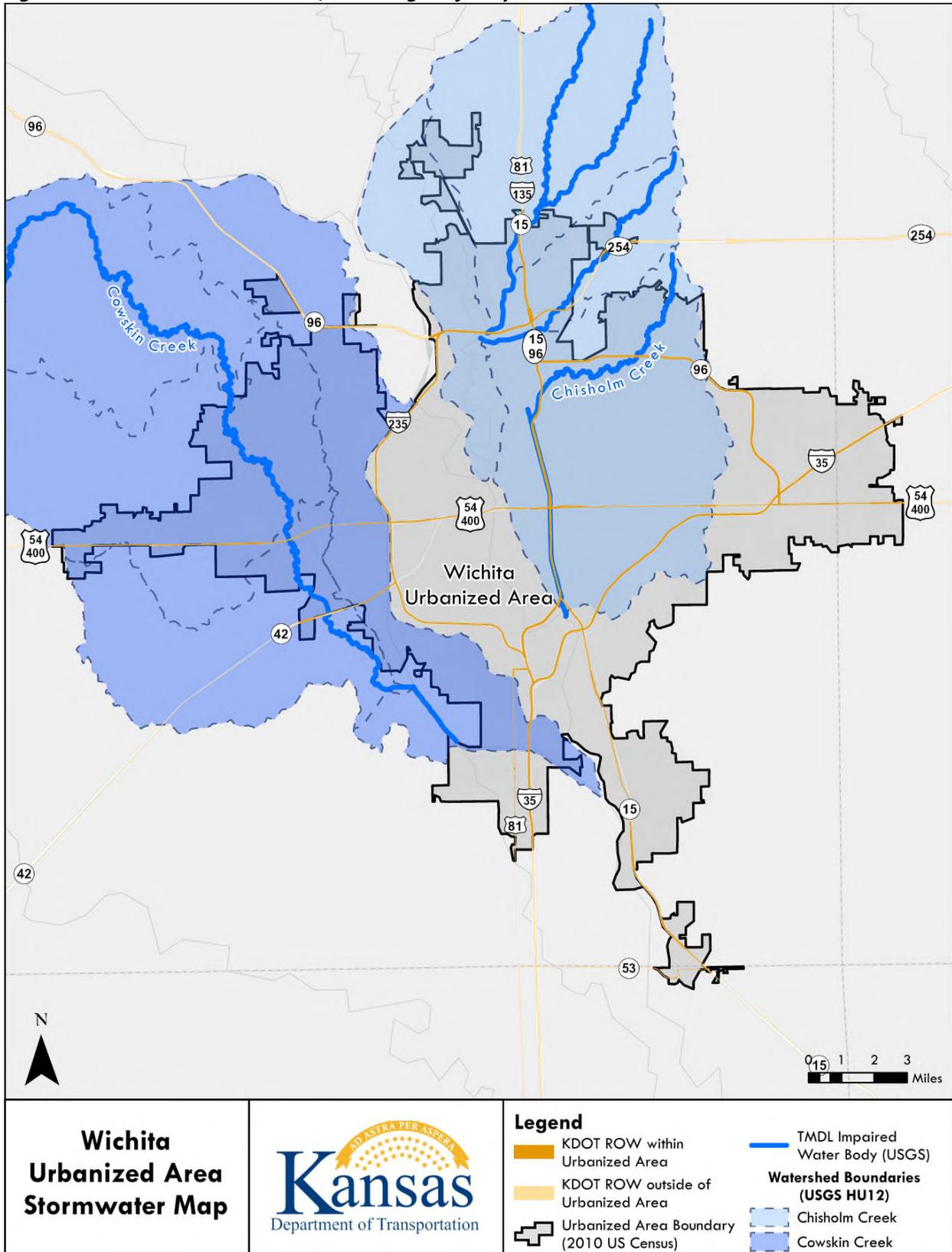
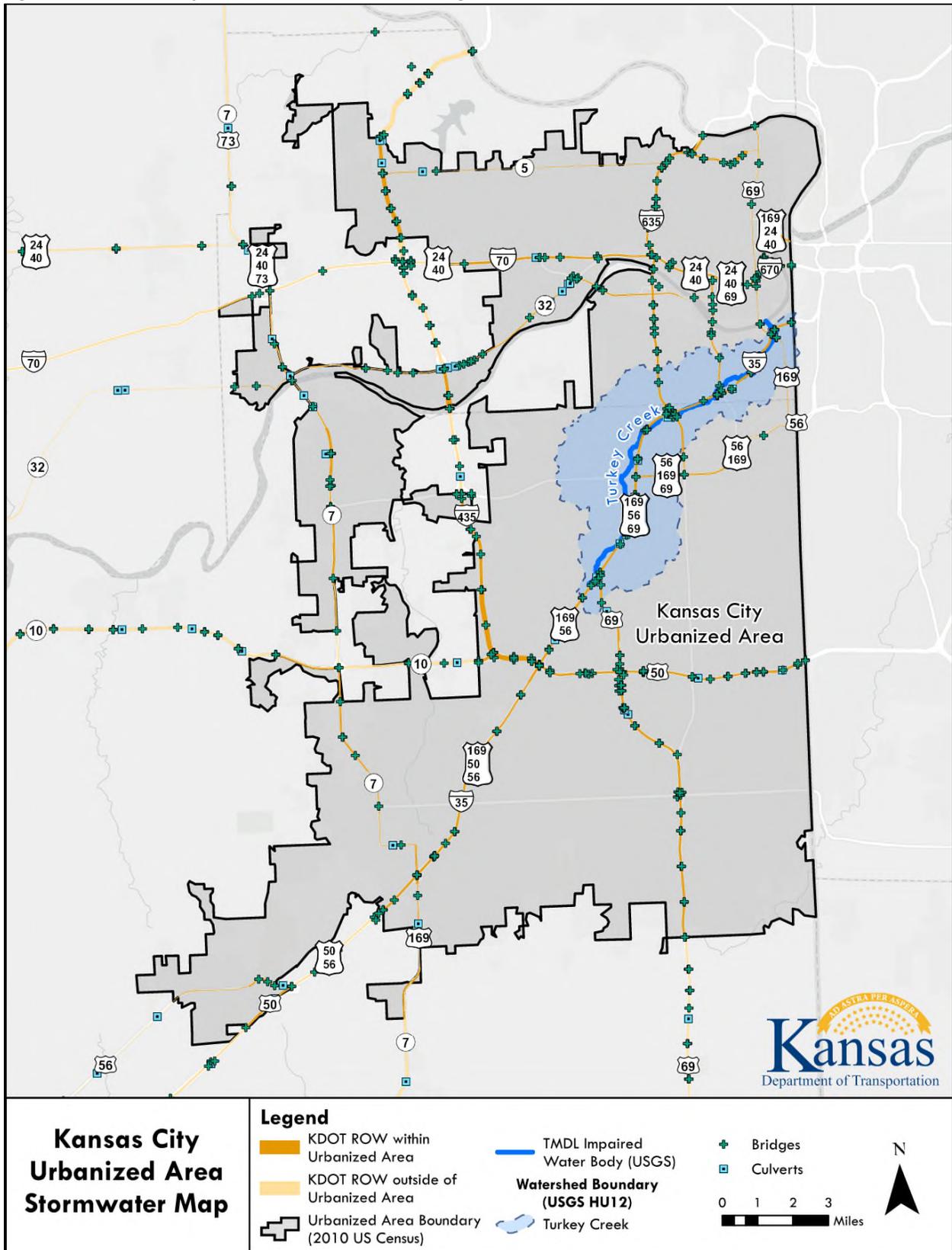
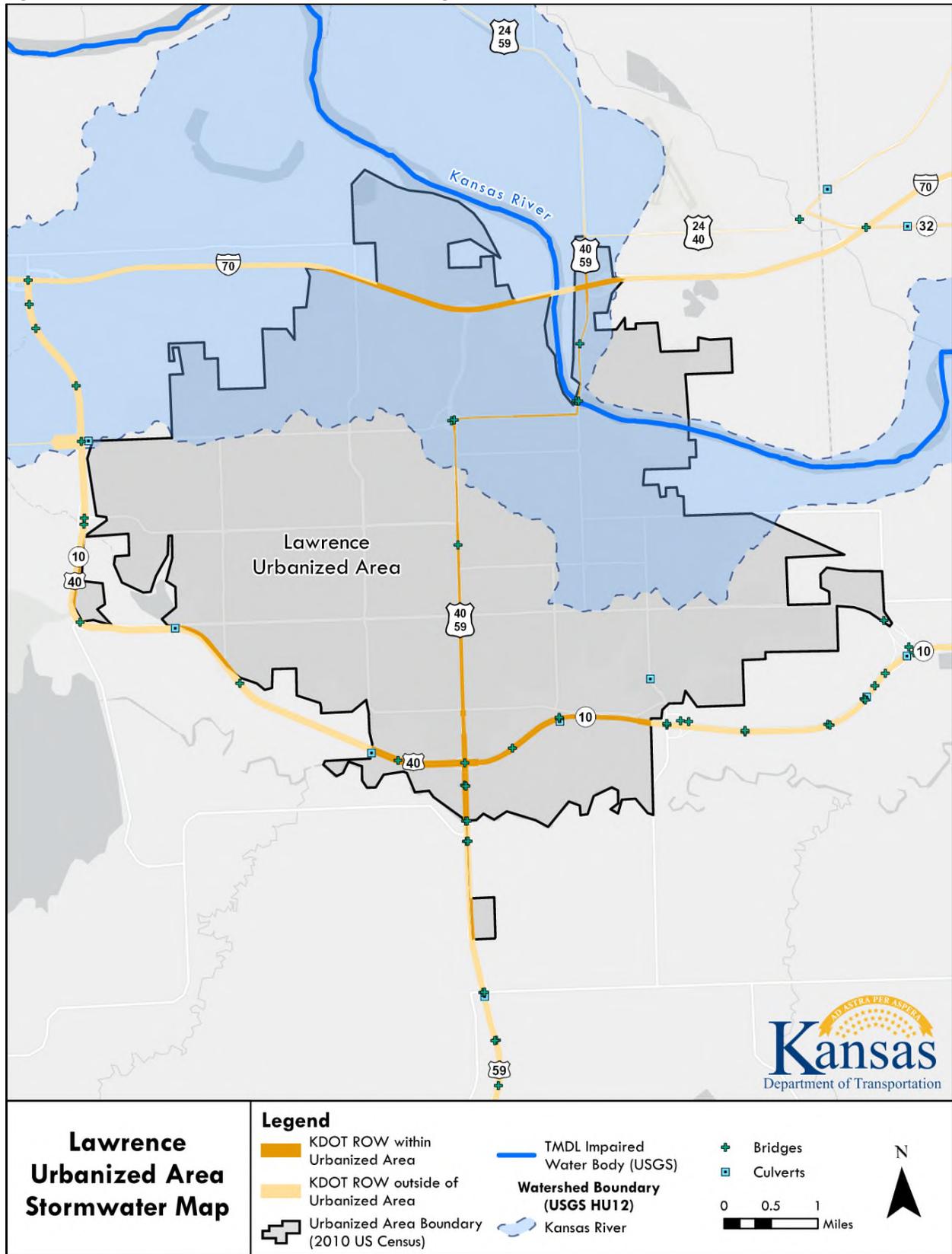


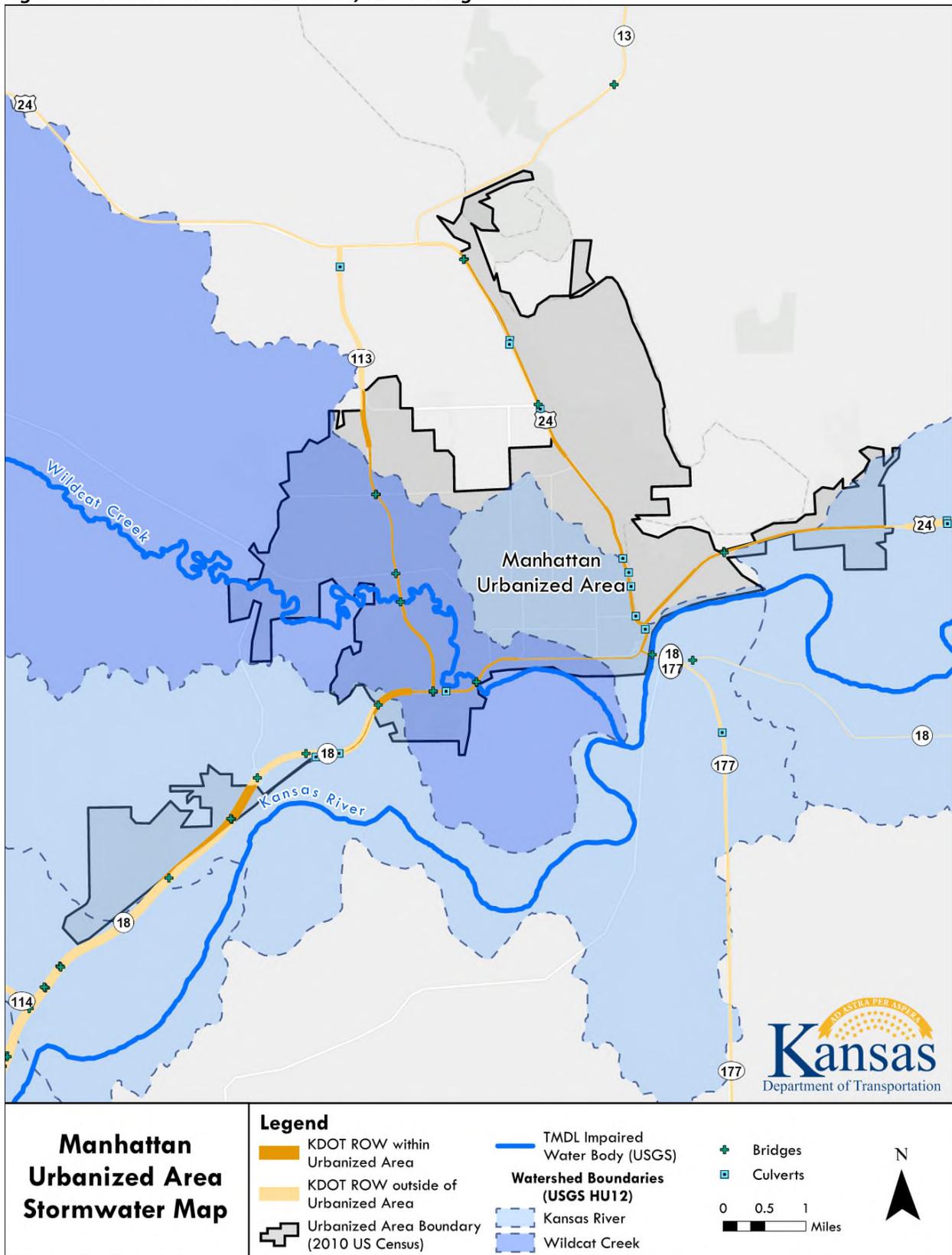
Figure 6 – Kansas City Urbanized Area, KDOT Bridges and Culverts



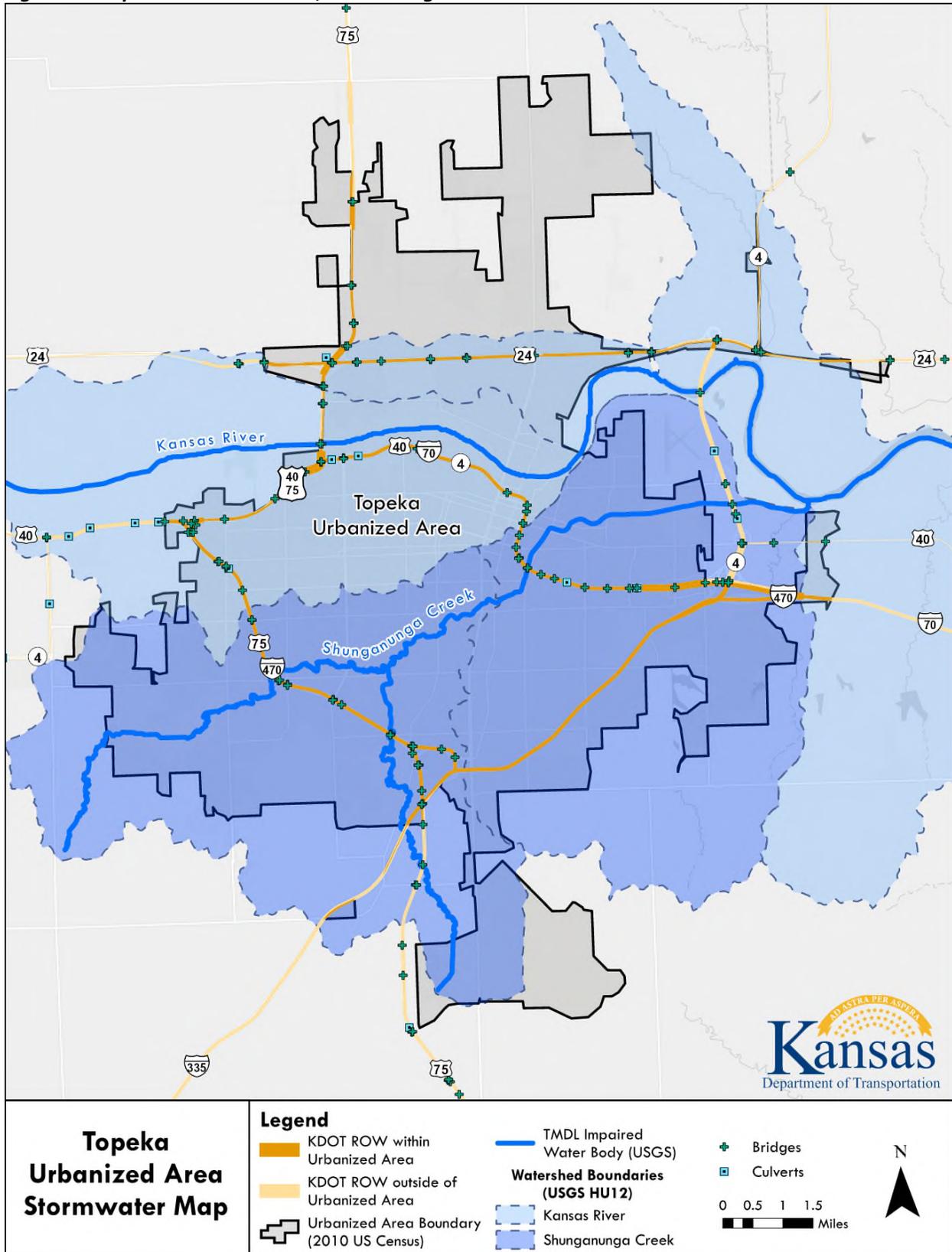
**Figure 7 – Lawrence Urbanized Area, KDOT Bridges and Culverts**



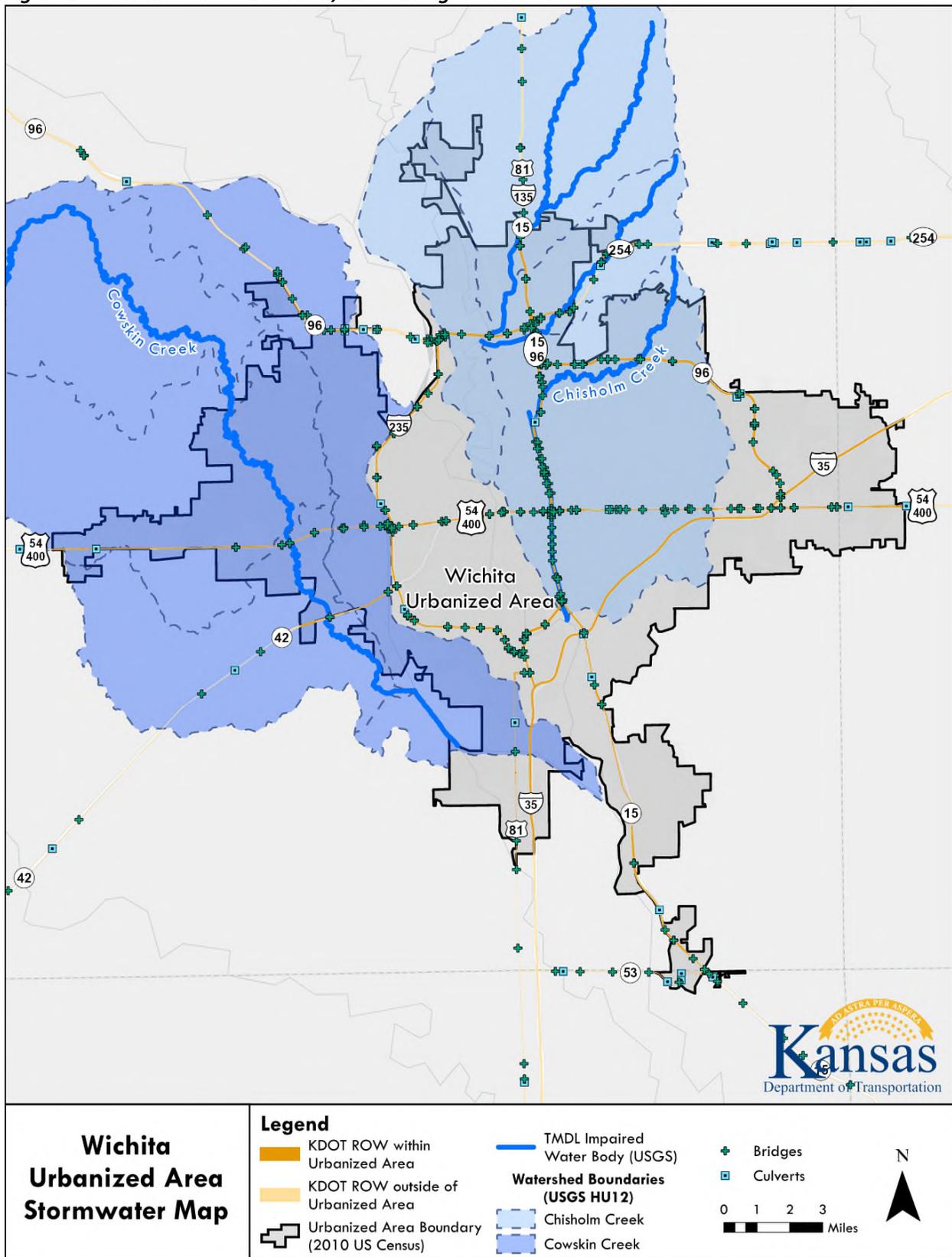
**Figure 8 – Manhattan Urbanized Area, KDOT Bridges and Culverts**



**Figure 9 – Topeka Urbanized Area, KDOT Bridges and Culverts**



**Figure 10 – Wichita Urbanized Area, KDOT Bridges and Culverts**



## Part II: Total Maximum Daily Load (TMDL) Best Management Practices and Surface Water Monitoring

Part II of the effective permit(s) states that KDOT “is required to implement BMPs to attenuate the discharge of TMDL regulated pollutants from the MS4 to specific impaired streams as listed in the TMDL Table.” KDOT’s permit obligations are listed in Table 7.1.

**Table 7.1 – KDOT TMDL Table**

Permit #	Urbanized Area	Water Body	Regulated Pollutants	KDOT’s Percent Land Ownership in Watershed (Within permit area)
M-KS27-SU01	Kansas City	Turkey Creek	Bacteria; Nutrients; Sediment	4.0%
M-KS31-SU02	Lawrence	Kansas River	Bacteria; Nutrients; Sediment	1.8%
M-KS72-SU02	Topeka	Kansas River; Shunganunga Creek	Bacteria; Nutrients; Sediment	3.6%
M-KS38-SN01	Manhattan	Kansas River; Wildcat Creek	Bacteria; Nutrients; Sediment	2.9%
M-AR94-SU02	Wichita	Chisholm Creek; Cowskin Creek	Bacteria; Nutrients; Sediment	1.9%

Reference Table 7.2 for a list of available BMPs for implementation and their respective descriptions. KDOT’s jurisdictional authority is limited to the land under its ownership in each of the respective watersheds, within the permit extents. Therefore, non-structural BMPs were identified by KDOT to provide the most impact toward reducing the discharge of pollutants within the permitted TMDL watersheds.

**Table 7.2 - Available BMPs**

Lbmp TMDL	KDOT Applicability		Description
	Existing	Future	
01	No	No	Install pet waste stations at parks, trails, rest areas, etc.
02	No	No	Establish program to encourage residential rain gardens
03	No	No	Install and operate a constructed wetland
04	No	No	Enact a stream buffer ordinance
05	No	No	Develop a pet waste document educating the public about animal waste contamination
06	Yes	Yes	Distribute "Only Rain Down the Drain" document
07	Yes	Yes	Inspect 10% of all known MS4 outfalls for dry weather discharges
08	No	No	Implement an alternative stormwater offsite pollution reduction program
09	Yes	Yes	Implement a program to collect and properly dispose of litter on four separate occasions per calendar year
10	No	No	Establish a program to encourage rainwater harvesting
11	No	No	Construct and maintain a structural BMP
12	No	No	Construct a stream bank stabilization project

BMPs identified as applicable to KDOT are described in the following subsections.

## Lbmp TMDL - 06: Distribute “Only Rain Down the Drain” Document

*Measurable Goal: Provide within permit area with suspected illicit discharges*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT works to educate the public on the importance of minimizing stormwater impacts by providing resources on the KDOT website. Both a 30-second and 10-minute Illicit Discharge Awareness videos are available to the public through KDOT’s website:

<https://www.ksdot.org/bureaus/burMaint/StormWater/default.asp>.

Topics discussed in the Illicit Discharge Awareness video include:

- ▶ Storm sewer purpose
- ▶ Storm sewer vs sanitary sewers
- ▶ Spotting illicit discharges
- ▶ Ecological impacts
- ▶ How to report illicit discharges

KDOT developed a brochure to educate the public about the Adopt-a-Highway program. This brochure provides information to help keep participants safe while volunteering to keep Kansas clean. Topics highlighted in this brochure include the following:

- ▶ What can I do?
- ▶ Be on the alert
- ▶ What to wear
- ▶ Things not to do
- ▶ Helpful hints
- ▶ Weather

The Adopt-a-Highway brochure is available to the public via KDOT’s Adopt-a-Highway program webpage here: <https://www.ksdot.org/Assets/wwwksdotorg/bureaus/burConsMain/Adopt-A-Highway-2011-Letter-for-web.pdf>.

### **2021 Annual Report Update**

KDOT continues to offer both the 30-second and 10-minute Illicit Discharge Awareness videos in English and Spanish on KDOT’s website. Reference the links below for both videos:

- ▶ 30-second video: <https://www.ksdot.org/bureaus/burMaint/StormWater/default.asp>
- ▶ 10-minute video: <https://www.ksdot.org/bureaus/burMaint/StormWater/MS4PubEd.asp>

For the 2021 permit year, KDOT made the Adopt-a-Highway brochure available to the public here:

<https://www.ksdot.org/Assets/wwwksdotorg/bureaus/burConsMain/Adopt-A-Highway-2011-Letter-for-web.pdf>.

## Lbmp TMDL - 07: Inspect 10% of all Known MS4 Outfalls for Dry Weather Discharges

*Measurable Goal: Complete inspection either annually or twice per year during dry weather periods*

For this BMP to be relevant in a linear transportation setting, KDOT assumes applicability in the following paragraphs.

KDOT tracks inspections for structures classified as bridges, 10'-20' Series, and structures with openings less than 10-feet. The following software programs are utilized to tracks inspections of MS4 outfalls:

- ▶ Bridge Management
- ▶ BROMS (Bridge Office Management System)
- ▶ MQA (Maintenance Quality Assurance)

The inspections are then recorded in KDOT's Reports Portal.

At the date of this SMP, the following structure descriptions and software programs are as follows:

### **Bridges**

Bridges are classified as structures that have an opening of 20-feet or greater. Inspections are documented through both the BROMS and Bridge Management software. Reference Table 7.3 for bridge inspection frequencies.

**Table 7.3 – Bridge Inspection Frequencies**

Rating	Rating Description	Inspection Frequency
4-	Poor Condition	Annually
5+	Great Condition	Every 2 years

### **10'-20' Series**

Pipes and culverts greater than or equal to 10-feet but less than 20-feet are classified as 10'-20' Series structures. Inspections are documented through BROMS. Reference Table 7.4 for culvert inspection frequencies.

**Table 7.4 – Culvert Inspection Frequencies**

Rating	Rating Description	Inspection Frequency
4	Poor Condition	Annually
6	Good Condition	Every 2 years
8	Great Condition	Every 4 years

### **MQA Software**

The purpose of the MQA program is to identify and prioritize maintenance projects and resources. According to the Maintenance Quality Assurance Program Manual (page 28), thirty 0.1-mile sample segments per maintenance subarea are randomly selected using the CANSYS database and rated against a level of service (LOS) criteria. These inspections occur annually in October. Upon completion, KDOT

compares the resulting LOS to the target LOS values. The five maintenance categories include travelway, traffic guidance, shoulders, drainage, and roadside.

Drainage is broken up into the following elements: curb & gutter, ditch, erosion control devices, culverts & pipes (excludes serial numbered structures), edge & underdrains, and inlets. A weighting factor of 14% is applied to drainage when determining the LOS. The statewide/district targeted LOS for drainage is 85.

For ditches to pass inspection, 80% of the ditch length must be free of scour more than six inches, blockage, standing water, and obstructions.

For culverts & pipes to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of opening is unobstructed
- ▶ Functions as intended (check for erosion, scour, settlement at structure inlets and outlets)

For inlets to pass inspection, they must meet the following LOS criteria:

- ▶ 75% of cavity per structure is free of debris & operates as intended
- ▶ The inlet grate and access cover are present, where applicable
- ▶ The unit is structurally sound

Inspections are documented through the MQA inspection form. The purpose of the form is to record whether each element meets the associated LOS criteria. Upon completion, copies of these forms are sent to District MQA committee members and Area Superintendent. The inspection results are reported into KDOT's Report Portals. Original copies of the form are maintained for one-year.

### ***Stormwater Management Map***

For the duration of this permit, the Transportation Planning – State System Map will also function as KDOT's Stormwater Management Map. Currently, the ArcGIS map only includes bridges and culverts greater than 10-feet in diameter. Culverts and pipes less than 10' in diameter are documented and tracked in a separate system. KDOT is currently identifying options to existing processes to efficiently store data in one platform.

### ***2021 Annual Report Update***

Table 7.5 contains information regarding the total structure inspections that occurred in 2021 against the total structures in each urbanized area. This data was pulled from KDOT's Reports Portal on October 4, 2021. Reference the attached data for the raw data exported from the Reports Portal. Inspections will be ongoing through 2021.

**Table 7.5 – 2021 Structure Inspections per Urbanized Area**

<b>Urbanized Area</b>	<b>County</b>	<b>Total Inspections</b>	<b>Total Structures</b>	<b>Percentage</b>
Kansas City	Wyandotte	196	442	44.34%
Lawrence	Douglas	6	417	1.44%
Manhattan	Riley	6	294	2.04%
St. Joseph	Doniphan	29	177	16.38%
Topeka	Shawnee	9	703	1.28%
Wichita	Sedgwick	9	1,705	0.53%

KDOT manages a report of MQA program roadway segments completed annually. This list for 2021 is provided in the documentation for each urbanized area.

## Lbmp TMDL - 09: Implement a Program to Collect and Properly Dispose of Litter on Four Separate Occasions per Calendar Year

*Measurable Goal: Four litter collection efforts should, but not required to, occur seasonally*

KDOT offers three programs to address litter and debris along Kansas highways:

### ***Interstate Services***

KDOT hires contractors to pick up debris and litter along KDOT roadways in the Kansas City urbanized area.

### ***Adopt-a-Highway***

Established in 1989, KDOT's Adopt-a-Highway program encourages citizens to volunteer to pick up litter and trash along state highways. Volunteers are required to pick up litter at least three times for a two-year period. Participants range from families to organizations such as youth groups, businesses, etc. Two-mile segments are the most common, but three-mile and one-mile segments are also an option depending on if it's an urban or rural setting.

Interested groups must complete an application and a release form. Signed by all participants within each group, the release form requires volunteers to agree to remove litter and trash a minimum of three times a year for a two-year period. The release form is then submitted to the nearest KDOT office. Groups who wish to reapply must complete a renewal form.

Additional information regarding the program, including the application form, renewal form, and safety video, can be found here: <https://www.ksdot.org/bureaus/burMaint/Adoptahighway.asp>.

### ***Sponsor-a-Highway***

KDOT's Sponsor-a-Highway program allows business to advertise their company name and logo within view of commuters. In return, the money raised from sponsorships funds litter removal on state highways. It ultimately results in cleaner and improved highways. Benefits of participating in this program include recognition as environmental supporters who support community responsibility.

Additional information regarding the program can be found here: <https://www.ksdot.org/bureaus/burMaint/sponsorahighway.asp>.

### ***2021 Annual Report Update***

In June 2021, KDOT contracted Interstate Business Solutions (IBS) to remove litter and debris from KC metro roadways. Throughout June and July, efforts were focused on I-435 in Johnson County and I-35, US69, and I-635 in Wyandotte County. As of September 17, 2021, IBS collected more than 106,000 pounds of litter and debris along these routes. On an average day, eight miles are covered and nearly 110 trash bags are filled. Items collected include (but are not limited to) televisions, iPads, diaper bags, and 5,000 nitrile gloves.

More information regarding this service can be found here: [Litter Removal and Sweeping Services Clean up KC Metro Roadways](#). IBS's contract is active for the next 5 years. The annual cost for services is \$754,860.

During the permit year 2021, Adopt-a-Highway has 41 active groups and Sponsor-a-Highway has 24 active participants. Table 7.6 summarizes litter program activity for the permit period.

**Table 7.6 - 2021 Summary of Litter Program Activity**

<b>Urbanized Area</b>	<b>Adopt-A-Highway Number of Groups</b>	<b>Sponsor-A-Highway Number of Groups</b>	<b>IBS Litter Removal</b>	<b>Honor Camp – Prison Work Group*</b>
Kansas City	13	17	54.7 miles (clean both directions, 2x/mo)	NA
St. Joseph	2	0	NA	NA
Lawrence	5	1	NA	NA
Topeka	7	3	NA	1 crew (5 days/wk)
Manhattan	7	0	NA	NA
Wichita	7	3	NA	2 crews (5 days/wk)

*\*KDOT provides the van, trailer, safety equipment, and reimburses the guard's salary for each crew.*

# Kansas Department of Transportation

## Stormwater Management Plan



Minimum Control Measure:

MCM7: Total Maximum Daily Load (TMDL) Regulated Pollutants

Permit Year:

2021

BMP	Summary	Measurable Goal	KDOT Availability		Reference	How to Report	Claimed		
			Applicable	Points			2021	Points	
Lbmp T M D L - 06	Distribute "Only Rain Down the Drain" door hangers or similar document	Provide in portions of the permit area with suspected illicit discharges.	Yes	2	<a href="#">Illicit Discharge Awareness Video 30-second (English/Spanish)</a> <a href="#">Illicit Discharge Awareness Video 10-minute (English/Spanish)</a>	1. <u>Stormwater Management Plan:</u> -Describe purpose and content of Illicit Discharge video  2. <u>Annual Report:</u> -Include a link to the website	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2
Lbmp T M D L - 07	Inspect 10% of all known MS4 outfalls for dry weather discharges either annually or 2x per year.	Complete inspection either annually or twice per year during dry weather periods. If dry weather discharge is found, follow-up with investigation to determine if a portion of all the discharge is illicit. Document findings; initiate efforts to eliminate any identified illicit discharges.	Yes	3	<u>Reports Portal:</u> -Bridges -10'-20' Series Culverts -Culverts -Stormwater Infrastructure <u>MQA Software:</u> -0.1-mile segments -Drainage: 14% WF -Ditch, culverts/pipes, inlets, etc.	1. <u>Stormwater Management Plan:</u> -Include program descriptions  2. <u>Annual Report</u> -Update <i>Structure Inspections per Urbanized area</i> table -Describe and save MQA List	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3
Lbmp T M D L - 09	Implement a program to collect and properly dispose of litter, on four separate occasions per calendar year, within areas where littering has been identified as a problem. Such areas may include municipal parks, trails, rest areas, or other public lands owned by the permittee.	The four litter collection efforts should, but are not required to, occur seasonally, i.e., winter, spring, summer, and fall.	Yes	2	<u>Interstate Services</u> -2021: Interstate Business Solutions (IBS) -Wyandotte and Johnson Counties  <u>Adopt-a-Highway</u> -Yearly announcement encouraging people to sign up -Litter cleanup  <u>Sponsor-a-Highway</u> -Businesses pay a monthly fee to advertise on highway -Fee covers picking up trash	1. <u>Stormwater Management Plan:</u> -Describe IBS's contract to clean litter and debris from KC metro roadways -Include program descriptions  2. <u>Annual Report</u> -Save memo describing IBS's litter removal services -Provide # of active groups for both programs -Manage a list of active groups	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2



2021 - Total Maximum Daily Load (TMDL) Regulated Pollutants	
Available Points	7
Requirement	4
Claimed Points	7
Meets Requirements	Yes

# Adopt - A - Highway

HELPING TO KEEP KANSAS CLEAN

*Safety Tips • Adopting • Participating*



In the city or in the country, along the highway or throughout the parks littering can be a costly and unsightly problem.

## Litter can do the following:

- Pollute the land and waterways of Kansas
- Harm animals and vegetation
- Take away from the beauty of the state

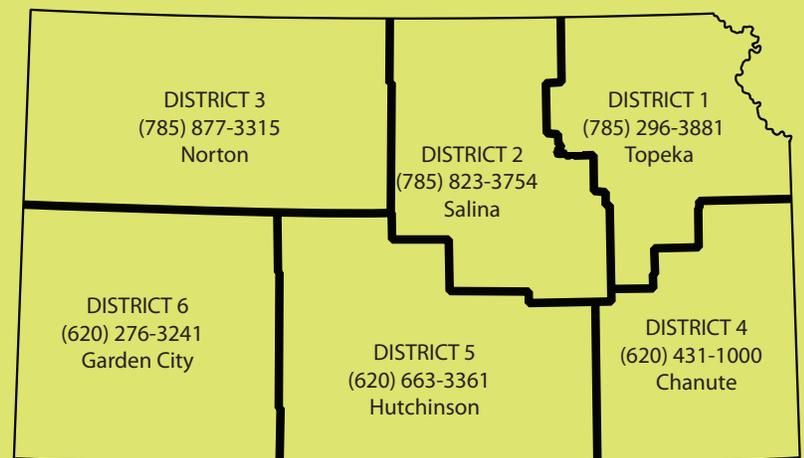
## WHAT CAN I DO?

- ♦ Be active in helping to keep your town or community clean.
- ♦ Recycle aluminum, glass, paper and plastic.
- ♦ Buy recycled materials whenever possible.
- ♦ Don't throw litter out of vehicles.
- ♦ Join KDOT's Adopt-A-Highway program or other local anti-litter organizations.

## HOW DO I JOIN?

- ♦ Any non-profit group that does not discriminate on the basis of race, religion, color or sex can participate in the Kansas Department of Transportation's Adopt-A-Highway program by calling your District office.

**NOTE:** This form is available in alternative accessible formats. To obtain an alternative format, contact the KDOT Bureau of Transportation Information, Eisenhower State Office Building, 2nd Floor, Topeka, Kansas 66603-3754, or phone (785) 296-3585 (Voice)/(Hearing Impaired -711).



*Thanks for participating in the Adopt-A-Highway program! This brochure provides information to help you have a safe and enjoyable time while working to keep Kansas roadways clean.*

## WHAT CAN I DO?

- ◆ Only pick up trash and litter.
- ◆ Car pool to reduce number of vehicles and park only in recommended areas.
- ◆ Work one side of highway at a time.
- ◆ Work only during daylight hours.
- ◆ Avoid contact with poisonous plants.
- ◆ Have a first aid kit and transportation available in case of emergency.

## BE ON THE ALERT

- ◆ Notify nearest KDOT office, the Kansas Highway Patrol or the police of suspected toxic/hazardous substances or dead animals DO NOT try to remove.
- ◆ Be alert for places where snakes may be located such as around logs, rocky area and tall grass. Avoid these areas.
- ◆ Fill sack with what goes in easily. Do not squeeze trash sacks to make room. This could result in injuries from broken or jagged objects.
- ◆ Stay clear of any maintenance or construction activities.
- ◆ Stay off roadway and paved or unpaved shoulder area, to pick up litter.

## WHAT TO WEAR

- ◆ Wear light-colored clothing and your safety vest at all times.
- ◆ Wear heavy gloves. Do not pick up discarded syringes or hypodermic needles.
- ◆ Wear substantial leather shoes or boots with ankle support. Stay off steep slopes and watch your footing.
- ◆ Wear a hat and consider using sunscreen and insect repellent.
- ◆ Wear long-sleeved shirts when temperatures allow.

## THINGS NOT TO DO

- ◆ **Do not allow children or pets at the litter pick up area or leave them in parked vehicles.**
- ◆ Do not mow or trim shrubs/weeds.
- ◆ Do not carry firearms, machetes or axes.
- ◆ Do not cross traveled sections of roadway.
- ◆ Do not pick up litter on bridges, underpasses, or overpasses.
- ◆ Do not use headsets or cell phones.

## HELPFUL HINTS

- ◆ Face oncoming traffic while you work. Be prepared to move out of the way of the vehicles in an emergency.
- ◆ Avoid overexertion.
- ◆ Have a refresher session on safety awareness each time a crew goes out.
- ◆ Crew members should have the following minimum qualifications:
  - Good physical condition, including sight and hearing.
  - Mental alertness.
  - A sense of responsibility for safety of public and crew.
  - A willingness to use good common sense.
  - Must be at least 11 years old.

## WEATHER

- ◆ Discontinue work in inclement weather, especially in times of reduced visibility and wet or icy roads.
- ◆ Be cautious of dry conditions. Be alert to fire hazards and do not smoke while working.
- ◆ Take breaks, especially when it's warm. Drink plenty of water, especially on warm days.
- ◆ Try to schedule clean-up times in the morning when it's cooler and visibility is better.

## Total Inspections - Urbanized Areas

County Name	Count of Structures
Allen	48
Anderson	33
Atchison	38
Barton	2
Bourbon	73
Brown	45
Butler	13
Chautauqua	23
Cherokee	11
Cheyenne	15
Clark	34
Cloud	2
Coffey	20
Comanche	1
Cowley	3
Crawford	5
Decatur	16
Dickinson	7
Doniphan	29
Douglas	6
Edwards	1
Elk	23
Ellis	57
Finney	28
Ford	58
Franklin	24
Geary	5
Gove	18
Graham	34

Source: KDOT's Report Portal  
Date: October 4, 2021

Grant	13
Gray	34
Greeley	8
Greenwood	44
Hamilton	44
Harper	4
Harvey	2
Haskell	5
Hodgeman	24
Jackson	21
Jefferson	25
Johnson	11
Kearny	13
Kingman	46
Labette	1
Lane	5
Leavenworth	34
Lincoln	1
Linn	20
Lyon	13
Marion	2
Marshall	29
Mcperson	26
Meade	24
Miami	25
Mitchell	2
Montgomery	70
Morris	1
Morton	11
Nemaha	36
Neosho	2
Ness	45
Norton	59

Osage	8
Osborne	46
Phillips	45
Pottawatomie	3
Rawlins	8
Reno	10
Republic	1
Rice	1
Riley	6
Rooks	35
Rush	2
Russell	66
Saline	23
Scott	7
Sedgwick	9
Seward	5
Shawnee	9
Sheridan	7
Sherman	13
Smith	40
Stafford	1
Stanton	5
Stevens	10
Sumner	21
Thomas	11
Trego	46
Wabaunsee	8
Wallace	4
Washington	68
Wichita	6
Wilson	37
Woodson	21
Wyandotte	196

## Total Structures - Urbanized Areas

County Name	Count of Structures
Doniphan	177
Douglas	417
Riley	294
Sedgwick	1,705
Shawnee	703
Wyandotte	442

Source: KDOT's Report Portal  
Date: October 4, 2021

## **IMMEDIATE RELEASE**

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## **Litter removal and sweeping services clean up KC metro roadways**

*More than 50 tons of trash picked up along primary traffic corridors since June*

The assignment is to pick up litter along major traffic corridors in Johnson and Wyandotte counties. But safety comes first.

Each weekday before heading out to collect unsightly and unsafe roadside debris, supervisor Troy Cummings gathers his crew for a safety briefing. The Interstate Business Solutions (IBS) team, contracted by the Kansas Department of Transportation (KDOT), goes over daily safety reminders and any problem areas identified on the day's route, most notably guardrails.

Guardrails require extra caution as they are close to passing motorists and often catch large amounts of litter blown off the roadway, including loose fast-food wrappers and packaging from passing freight. The IBS crew works during daylight hours and posts roadside safety signs every five miles to make drivers aware of the litter removal and workers on the shoulder. However, when working along guardrails, Cummings also follows the crew in a truck with flashing lights and signage for extra visibility as a safety precaution.

“Despite the warnings, we often see drivers, many using phones, who cross onto the shoulder at high speeds,” said Cummings. “They do not seem aware of workers walking on the roadside.”

When its work in the Kansas City metro began in June, IBS focused large debris cleanup efforts along 50 miles of roadway identified by KDOT and from public input as areas where roadside litter is prevalent. The first month's efforts were along I-435 in Johnson County, U.S. 69 from I-35 to 151<sup>st</sup> Street and I-635 in Wyandotte County. In July, IBS worked I-435 in Wyandotte County and I-35 in Johnson and Wyandotte counties.

There was plenty of trash to be found. To date, IBS has collected more than 106,000 pounds – more than 50 tons – of litter and debris along these routes. Each day, about eight miles of roadway are covered and cleanup results in filling an average of 110 trash bags.

Cummings said the majority of collected debris seems to come from unsecured loads on trucks, but the daily haul always includes an interesting mix of items. The IBS crew has picked up televisions, iPads, a saxophone, diaper bags, a box of straw hats and more than 5,000 pairs of nitrile gloves. That's in addition to numerous car parts, construction materials and large appliances.

Some items are especially unique. While walking along U.S. 69 at the 151<sup>st</sup> exit, an IBS crew member found an iPhone. The phone still had power and eventually its owner called. Turns out the mobile device had been stolen at a nearby gas station and apparently pitched. IBS was able to return the phone to its owner.

IBS, based in Indianapolis, Ind., hires local workers and partners with a Kansas City non-profit to employ individuals experiencing housing insecurity. Since completing its initial routes, IBS is now following a routine schedule of right-of-way litter maintenance. As part of this maintenance schedule, IBS returns to initially cleared locations every few weeks.

Cummings said when crews return to areas already worked, they often find the same debris-filled condition as before. "It's an ongoing job."

Roadside pickup efforts are supplemented by KDOT maintenance crews, Adopt-A-Highway volunteers and the Sponsor-A-Highway partners.

In addition to debris collection by hand, KDOT recently contracted Kasper, LLC, of Crocker, Mo., to provide sweeping services on metro-area roadways, expected to begin in October. Kasper crews will be working overnight Monday through Thursday, from 10 p.m. to 8 a.m. Selected route segments will be swept in both directions along curbs and barriers for mainline and ramps.

Approximately 160 miles along major highway corridors in Johnson and Wyandotte counties have been identified for sweeping services and include, but are not limited to: I-35, I-70, I-435, I-635, I-670, U.S. 69 and K-10.

Public involvement helps maintain state roadways and is a benefit to motorists and surrounding communities. Information on KDOT Adopt-A-Highway volunteer opportunities and Sponsor-A-Highway programs can be found here: <https://www.ksdot.org/bureaus/burMaint/Adoptahighway.asp>.

KDOT urges all motorists to be alert and obey the warning signs when approaching and driving through a highway work zone. To stay aware of all road construction projects across Kansas go to [www.kandrive.org](http://www.kandrive.org) or call 5-1-1. Drive safely and always wear your seat belt.



*I-35 near 135<sup>th</sup> Street before and after IBS crews picked up roadside debris.*

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This information can be made available in alternative accessible formats upon request. For information about obtaining an alternative format, contact the KDOT Office of Public Affairs, 700 SW Harrison St., 2<sup>nd</sup> Fl. West, Topeka, KS 66603-3754 or phone 785-296-3585 (Voice) / 7-1-1 (Hearing Impaired).

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