

**KANSAS STORMWATER 2023 ANNUAL REPORT FORM FOR MUNICIPAL SEPARATE  
STORM SEWER SYSTEMS (MS4)**

Please place an "X" in the left box if any information has changed from previous years

<input type="checkbox"/>	Permittee [Agency Name] Mailing Address 1:	City of Shawnee, Kansas
<input type="checkbox"/>	Mailing Address 2:	11110 Johnson Drive
<input type="checkbox"/>	Municipality:	Shawnee
	State:	Kansas
<input type="checkbox"/>	Zip Code:	66203
<input type="checkbox"/>	MS4 Program Contact - Person:	Tammy Snyder, Stormwater Program Manager
<input type="checkbox"/>	Contact E-Mail Address:	Tsnyder@cityofshawnee.org
<input type="checkbox"/>	Contact Phone Number:	913-742-6313
<input type="checkbox"/>	MS4 Program Construction Contact - Person	Tyler Wirth, Chief Building Official
<input type="checkbox"/>	Construction E-Mail Address:	twirth@cityofshawnee.org
<input type="checkbox"/>	Contact Phone Number:	913-742-6295
<input type="checkbox"/>	Kansas Permit Number: — Ex. M-MC21-SU01	M-KS68-SU01

Reporting period covers activities from January 1, 2023 through December 31, 2023.

This annual report must be submitted to the Kansas Department of Health and Environment (KDHE) by February 28th, 2024. The annual report is to be submitted as PDF files to KDHE via Kansas Environmental Information Management System (KEIMS). There is no requirement to provide hard copies of any documents.

**IN ADDITION**, provide the following:

1. A current copy of the Stormwater Management Program (SMP) Document as a PDF file along with the Annual Report.
2. Include an executive summary to this report which briefly covers the major aspects of the MS4 stormwater management program enacted during the year. In completing the executive summary, the preparer should address the following questions:
  1. Were there any aspects of the program that appeared especially effective at reducing pollutants in your stormwater discharge?
  2. Were there any aspects of the program that provided unsatisfactory results?
  3. What was the most successful part of the program?
  4. What was the most challenging aspect of the program?
  5. Describe any City/County area MS4 clean-ups and the participation.
  6. Describe the elected officials' participation in the stormwater pollution elimination.
  7. Describe the collaboration with other organizations to eliminate stormwater pollution.
  8. If an audit/inspection of your MS4 program was conducted by EPA or KDHE during the year, list the items the audit/inspection report identified as required changes and provide a narrative explanation of how the changes were implemented or explain the plan to implement the changes and identify a target date for final implementation.

The executive summary does not need to be extensive and detailed. It is anticipated the executive summaries will range from one half of a page to two pages in length depending on the scope of the program.

3. Any new stormwater ordinances/resolutions or revised ordinances/resolutions which have not already been submitted to KDHE for review and retention.

**TOPICS REQUIRED TO BE ADDRESSED IN THIS REPORT AS IDENTIFIED  
IN PART V OF THE PERMIT**

Within the next one or two pages, or perhaps more if so desired, provide comments addressing the following items:

1. Provide the status of compliance with permit conditions, an assessment of the appropriateness of the implemented Best Management Practices, progress towards achieving the statutory goal of reducing the discharge of pollutants to the maximum extent practicable (MEP), and the measurable goals with an indication of the progress toward meeting the goals for each of the six minimum control measures.
2. Provide results of information collected and analyzed, (for example test results, surveys, or public comments/input) during the annual reporting period. This may include monitoring data used to assess the success of best management practices with respect to reduction in pollutant discharge. Include an interpretation of the information which addresses success or failure of the portion of the program for which the information applies.
3. Provide results of information collected and analyzed, if any, during the annual reporting period, including monitoring data used to assess the success of the program at reducing the TMDL regulated pollutants.

4. Provide a summary of the stormwater activities that were scheduled to be undertaken during the previous calendar year and the status of these activities.
5. Provide a summary of the stormwater activities which are scheduled to be undertaken during the next calendar year (including an implementation schedule).
6. Provide a map showing changes in the permittee's Permit Area if the permit area has changed within the year.
7. Provide a description of significant changes in any of the BMPs.
8. Provide a list of any ordinances or resolutions which were updated in the last year and are associated with the SMP. Please note, page on of this report requires submission of any new stormwater related ordinances or resolutions or any such updated ordinances or resolution be submitted with this annual report.
9. Provide a list of other parties (such as other municipalities or consultants), which are responsible for implementing any of the program areas of the Stormwater Management Program.
10. For Phase I permittees only, provide a summary of the inspection results, including the wet weather surface water quality monitoring test results, and information obtained under PART III Monitoring Industrial Stormwater Discharges section of this permit.

## **SIX MINIMUM CONTROL MEASURES FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s) WITH NPDES PERMITS**

The following outlines the NPDES permit requirements for implementation of the Six Minimum Control Measures as required under Kansas MS4 permits issued by the KDHE. The NPDES permit provided to the MS4 authority should be reviewed for additional requirements associated with implementation of the Six Minimum Control Measures such as deadlines for the implementation of the requirements or supplemental requirements associated with the individual measures. The general requirements are as follows:

**A. Six Minimum Controls** — The permittee shall develop and implement Best Management Practices (BMPs) with measurable goals for each of the six minimum control measures. The six minimum control measures and the associated requirements are listed and explained as follows:

### **1. Public Education and Outreach**

The permittee shall implement a public education program which includes distribution of educational materials to the community or conducting equivalent outreach activities which address the impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

### **2. Public Involvement and Participation**

The permittee shall implement a public involvement and participation program to solicit public comment and recommendations regarding the BMPs and measurable goals utilized by the permittee to comply with the permit. The permittee shall comply with state and local public notice requirements when implementing a public involvement and participation program.

### **3. Illicit Discharge Detection and Elimination**

The permittee shall:

- a. develop, implement and enforce a program to detect and eliminate illicit discharges into the MS4;
- b. Develop a storm sewer system map of the permittee's MS4, showing the location of all outfalls, either pipes or open channel drainage, showing the names and location of all streams or lakes that receive discharges from those outfalls. A copy of the map shall be submitted to KDHE. This map may be submitted as a PDF file(s) on a CD or DVD.
- c. Enact ordinances or resolutions to prohibit non-stormwater discharges into the storm sewer system and implement appropriate enforcement procedures and actions if the permittee has such authority. A copy of the ordinances or resolutions shall be submitted to KDHE.
- d. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste; and
- e. Develop and implement a plan to detect and address prohibited non-stormwater discharges, including but not limited to illegal dumping, to the storm sewer system. Unless identified by either the permittee or KDHE as a significant source of pollutants

to waters of the state, the following examples of non-stormwater discharges are not prohibited from entering the MS4:

1. Water line flushing
2. Diverted stream flow
3. Rising groundwaters
4. Uncontaminated groundwater infiltration as defined under 40 CFR 35.2005(20) to separate storm sewers
5. Uncontaminated pumped groundwater
6. Contaminated groundwater if authorized by KDHE and approved by the municipality
7. Discharges from potable water sources
8. Foundation drains
9. Air conditioning condensate
10. Irrigation waters
11. Springs
12. Water from crawl space pumps
13. Footing drains
14. Lawn watering
15. Individual residential car washing
16. Occasional not-for-profit car wash activities
17. Flows from riparian habits and wetlands
18. Dechlorinated swimming pool discharges excluding filter backwash
19. Street wash waters (excluding street sweepings which have been removed from the street)
20. Discharges of flows from firefighting activities
21. Heat pump discharge waters (residential only)
22. Treated wastewater meeting requirements of a NPDES permit
23. Sump pump drains
24. Other discharges determined not to be a significant source of pollutants to waters of the state, a public health hazard, or a nuisance

#### **4. Construction Site Stormwater Runoff Control**

The permittee shall develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. The program must include the development and implementation, at a minimum, of the following:

- a. Permittees which have the authority to enact ordinances or resolutions shall enact such ordinances or resolutions to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State and Local law;
- b. Requirements for construction site owners or operators to implement appropriate erosion and sediment control best management practices;
- c. Requirements for construction site owners or operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that are likely to cause adverse impacts to water quality;
- d. Procedures for site plan review which incorporate consideration of potential water quality impacts;

- e. Procedures for receipt and consideration of information submitted by the public;
- f. Procedures for site inspection and enforcement of control measures.

**5. Post-Construction Stormwater Management in New Development and Redevelopment Projects**

The permittee shall develop, implement, and enforce a program to address post-construction stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development and implementation, at a minimum of the following:

- a. BMPs to prevent or minimize adverse water quality impacts;
- b. Strategies which include a combination of structural and/or non-structural BMPs appropriate for the municipality;
- c. For permittees which have the authority, ordinances or resolutions to address post-construction runoff from new development and redevelopment projects to the extent allowable under State and local law;
- d. Ensure adequate long-term operation and maintenance of BMPs

**6. Pollution Prevention/Good Housekeeping for Municipal Operations**

The permittee shall develop and implement an operation and maintenance program that includes employee training to prevent and reduce stormwater pollution from municipal operations activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.

**B. Stormwater Management Program**

Please place an "X" in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the Stormwater Management Program (SMP) been developed and implemented?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Has the SMP been modified or updated during this reporting period?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If the answer to question 2 above was "yes," has the modified SMP been submitted to KDHE for review?

If the answer to item 3 is a "NO," a copy of the updated SMP must be submitted with this annual report. If it is anticipated a measurable goal cannot be met in the next year the SMP should be modified and submitted to KDHE for review. The modifications may include different BMPs and/or revised goals to avoid being in a position of non-compliance. However; reasonable BMPs with reasonable goals must be implemented or KDHE may require the permittee to modify the SMP to include additional or better BMPs and/or more reasonable goals.

**C. Total Maximum Daily Load (TMDL) Best Management Practices (BMPs)**

Some permittees are required to implement BMPs to reduce the discharge of listed TMDL regulated pollutants (potentially any or all of the following pollutants – bacteria, nutrients, and sediment)

Please place an “X” in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were any BMPs intended to attenuate the discharge of TMDL regulated pollutants implemented? See your permit to determine if TMDL regulated pollutants are listed for the receiving stream affected by your stormwater system (TMDL Table).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	List all of the BMPs intended to attenuate the discharge of TMDL regulated pollutants as identified in the SMP and provide the requested information in the following table.

List all the TMDL BMPs as identified in the SMP and provide the requested information in the following table.

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**D. TMDL BMP Table**

The BMPs listed in the below table **should add up to a minimum of 6 points.**

BMP ID NUMBER	BRIEF BMP DESCRIPTION	REGULATED TMDL PARAMETERS	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)	POINTS CLAIMED
TMDL -01 Shawnee	Install pet waste stations which include a glove/bag dispenser with signage and waste can to encourage pet waste disposal at either parks, trails, rest areas or other public lands owned by the permittee.	At least one pet waste station shall be installed at the selected park, trail, rest area or other public land. The station(s) shall include signage which encourages proper pet waste disposal/cleanup and a waste can.	<ul style="list-style-type: none"> <li>• 24 Waste dispensers were maintained in the City of Shawnee parks.</li> <li>• 96,000 Pet Waste bags were used in Shawnee parks.</li> </ul>	1
TMDL – 04 Shawnee	Enact a stream buffer ordinance, resolution, or other enforceable requirement to impose stream buffer standards.	Ordinance Adopted . The enactment of stream buffer standards must include enforcement capability. Consider use of the EPA stream buffer model ordinance or similar such requirement.	Stream setback design criteria found in the City of Shawnee Design Manual.  2012 adopted ordinance 3021.	2
TMDL – 05 MARC & Shawnee	Develop a pet waste brochure or flyer document to educate the public about animal waste contamination of stormwater. The document encourages pet owners to pick up their pet's waste. Alternately, post the document on social media or the municipal website.	Flyers Distributed and Social Media Posts "The brochures or flyers are to be posted in various public buildings and distributed to the public throughout the year. In the year the number of documents shall equal or exceed the most recent U.S. Census Bureau decennial housing units value for the permit area.  The applicable U.S. Census housing units value shall be documented, and the number of documents distributed shall also be documented.  This information and copies of the documents shall be retained on file. Documents posted to social media or the website shall have the page copied and printed to retain on file.	MARC – Pick Up After Your Pet flyers are at City Hall counters.  *****  City posts on social media the importance of picking up pet waste – six (6) times a year.  Shawnee also has a pet waste article in one of the quarterly, All Things Hometown, city magazine. The magazine is mailed out to 32,544 property owners.	1



TMDL – 06 Shawnee	Distribute "Only Rain Down the Drain" door hangers or similar document.	Provide in portions of the permit area with suspected illicit discharges. In the year the number of documents distributed shall equal or exceed 10% of the most recent U.S. Census Bureau decennial housing units value for the permit area. The applicable U.S. Census housing units value shall be documented , and the number of documents distributed shall also be documented. This information and copies of the documents shall be retained on file.	<p>"Only Rain Down the Drain" door hangers are distributed to property owners as pollution is noted or reported.</p> <p>City posts on social media – "Only Rain Down the Drain" – three (3) times a year.</p> <p>Shawnee also has a "Only Rain Down the Drain" article in one of the quarterly, All Things Hometown, city magazine. The magazine is mailed out to 32,544 property owners.</p>	2
<b>TOTAL POINTS CLAIMED FOR TMDL</b> →				<b>6</b>

**E. Stormwater Management Program Requirements (Six Minimum Control Measures)**

1. Public Education and Outreach (Table)

List all of the public education and outreach BMPs as identified in the SMP and provide the requested information in the following table. The BMPs listed in the below table **should add up to a minimum of 7 points.**

BMP ID NUMBER	BRIEF BMP DESCRIPTION	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)	POINTS CLAIMED
P Ed & 0 – 01 Shawnee	<p>Maintain a stormwater webpage for the permittee.</p> <p>Maintain the webpage with up to date information with all links effective and valid information. Check all links and update website as necessary on a minimum monthly basis. Document monthly checks in log book and indicate changes with logged summaries.</p>	<p>Shawnee has a stormwater web page that is regularly reviewed and updated.</p> <p>In 2023, there were 2,920 stormwater-related page views. Below is a link to the stormwater web page.</p> <p><a href="https://www.cityofshawnee.org/cms/one.aspx?portalId=8941472&amp;pageId=9642743">https://www.cityofshawnee.org/cms/one.aspx?portalId=8941472&amp;pageId=9642743</a></p>	2

<p>P Ed &amp; 0 – 02  Shawnee  &amp;  JCSMP</p>	<p>Distribute educational materials (either flyers, brochures, catalog mailings, handouts, or e-mails) addressing various pertinent stormwater public education topics.</p> <p>Number of all flyers, brochures, catalog mailings, handouts, or e-mails distributed in a year shall equal or exceed the most recent U.S. Census Bureau decennial housing unit's value for the permit area.</p>	<p>The All Things Hometown city magazine is mailed out to 32,544 property owners, quarterly. There are stormwater articles in each edition of the newsletter.</p> <p>*****</p> <p>5 educational articles/flyers were included in 4 separate issues of the Johnson County Magazine, which was distributed to all Johnson County homes.</p>	<p>2</p>
<p>P Ed &amp; 0 – 04 Shawnee</p>	<p>Apply notification, placard, covers/hatches with message, or stencil, on stormwater inlets to provide a message similar to "No Dumping - Drains to River"</p> <p>Apply this notification on at least 10% of all known stormwater inlets in the MS4.</p>	<p>Shawnee has over 4,154 placards or stamped stormwater inlet lids on curb inlets = 58% of the inventory. This data is tracked in GIS.</p>	<p>2</p>
<p>P Ed &amp; 0 – 05 Shawnee</p>	<p>Post the municipality's MS4 permit and SMP document on either the stormwater web page or the municipal webpage.</p> <p>The two documents must be posted for at least six months of the year to claim one point.</p>	<p>Both documents are posted on Shawnee's stormwater webpage. <a href="https://www.cityofshawnee.org/Departments/PublicWorks/Stormwater">https://www.cityofshawnee.org/Departments/PublicWorks/Stormwater</a></p>	<p>1</p>
<p>P Ed &amp; 0 – 06  Shawnee  &amp;  JCSMP</p>	<p>Provide either a stormwater telephone hotline or web based or text message method for public reporting of illicit discharges.</p> <p>Respond to all reported complaints within 10 days and, if found valid, resolve or establish a schedule for resolution within 20 days.</p>	<p>Both a telephone and web based system (SeeClickFix) are set up for stormwater illicit discharges. 913-742-6008. Shawnee uses CityWorks to track and response to Service Requests. 25 locations were reviewed for illicit discharge. <a href="https://www.cityofshawnee.org/cms/one.aspx?portalId=8941472&amp;pageId=9497773">https://www.cityofshawnee.org/cms/one.aspx?portalId=8941472&amp;pageId=9497773</a></p> <p>*****</p> <p>The JOCO DHE maintains a 24/7 pollution response system to the public for all cities and citizens in Johnson County to report stormwater pollution. Johnson County did not have any illicit discharges in Shawnee reported to them in 2023.</p>	<p>2</p>

<p>P Ed &amp; 0 - 08  JCSMP</p>	<p>Provide stormwater education for students at a school campus within K-12 (those grades present at the campus) within the permittee's jurisdiction or within 30 miles from this permit area. The training may be limited to the individual campus (local school buildings associated with a single address). This training does not need to be provided to the entire school system, e.g., USD.</p> <p>Alternately, funding stormwater BMP installations and/or field trips at the school campus will qualify.</p> <p>Provide or fund an educator or speaker that will reach at least 5% of the K-12 students as normally attend school in the selected school campus. Alternately, the funding of BMPs at the school campus may provide for any of the following:</p> <ul style="list-style-type: none"> <li>-&gt; Installation of BMPs at the school</li> <li>-&gt; Stormwater related field trips</li> <li>-&gt; Water quality stream sampling activities</li> <li>-&gt; Rain gardens on school property</li> <li>-&gt; Rain barrel workshops</li> <li>-&gt; Rain garden workshops</li> </ul>	<p>The Johnson County Stormwater Management Program partners with various non-profit organizations to provide stormwater education to at least one classroom of students in all permitted municipalities in the County.</p> <p><u>Stone Lion Puppet Theater</u> –</p> <p>45 environmental education activities to over 9,000 children from Kindergarten to 5th grade in JoCo.</p> <p><u>Friends of the Kaw</u> -</p> <p>Provides water quality data collections and analysis to 6<sup>th</sup> - 8<sup>th</sup> grade students – “Kids About Water”. Students learn about watersheds and pollution and what steps can be taken to improve water quality. In JoCo approximately 2,250 students were engaged.</p> <p>Approximately 1,818 students from Shawnee benefited from the above two programs.</p>	<p>3</p>
<p>P Ed &amp; 0 – 13 Shawnee</p>	<p>Operate an adopt a highway program to utilize public volunteers to clean road right-of-way.</p> <p>The 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 (such as roadways, parks, and waterways) which are cleaned and equate to or exceed a two-mile road clean-up can qualify for a point.</p>	<p>Adopt A Spot - Shawnee residents are active in the numerous volunteer programs. In 2023, residents spent 556 hours, cleaning 19 locations - 63 different times.</p> <p>There were 11 Park locations and 8 right-of-way locations, with open channels and streams nearby.</p>	<p>1</p>


<p>P Ed &amp; 0 – 15 Shawne</p>	<p>Develop or participate in an ongoing social media program on pertinent stormwater public education topics.</p> <p>Publish or share social media content on the permittee's social media accounts at least six times per year. Record post topic, the number of impressions and engagement for each post. Include link to permittee's stormwater education website.</p>	<ul style="list-style-type: none"> <li>• City Website views: 692,577</li> <li>• Stormwater-related pages views: 2,920</li> <li>• Water Quality Social Media Posts: 23</li> </ul> <p>Shawnee posts 6 “various stormwater topics” annually on social media and those posts are linked to Shawnee’s stormwater web page.</p>	<p>2</p>
<p><b>TOTAL POINTS CLAIMED FOR PUBLIC EDUCATION AND OUTREACH</b> →</p>			<p><b>15</b></p>

**E. Stormwater Management Program Requirements (Six Minimum Control Measures) (CONTINUED)**

2. Public Involvement and Participation (Table)

List all public involvement and participation BMPs as identified in the SMP and provide the requested information in the following table. The BMPs listed in the below table **should add up to a minimum of 6 points.**

<p><b>BMP ID NUMBER</b></p>	<p><b>BRIEF BMP DESCRIPTION</b></p>	<p><b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b></p>	<p><b>POINTS CLAIMED</b></p>
<p>P I/P – 05  Shawnee  &amp;  MARC Water Quality Education Committee</p>	<p>Provide at least two events for residents to engage in cleanup activities and improve water quality in the municipality.</p> <p>Provide at least two events in streams, streamside parks, areas adjacent to public waterways, and/or other green infrastructure/water resources. These events can be any of the following: Environmental restoration events, stream cleanups, tree plantings, or stream monitoring.</p>	<p>On 4/15/2023, Shawnee hosted an annual recycling event. Shawnee volunteers and staff collected 16,800 lbs of paper was recycled, 6.02 tons of e-waste was collected and 10 pallets of paint cans were recycled.</p> <p>On 4/27/2023, Shawnee staff planted trees with 25 children at the Public Works Service Center.</p> <p>*****</p> <p>October 2023, the 3<sup>rd</sup> metro-wide virtual Plog-a-thon was held to reduce the impact of trash and litter on regional water quality. 174 people participated in the regional even collecting nearly 200 bags of trash across the metro. Johnson County had 53 participants.</p>	<p>3</p>

<p>P I/P – 06</p> <p>JCSMP</p> <p>&amp;</p> <p>Shawnee</p>	<p>Establish a program to encourage residents to install stormwater treatment best management practices on their property.</p> <p>Encouragement can include funding, grants, and other financial incentives, trainings and or giveaways.</p> <p>Stormwater treatment BMPs can include: rain barrels, rain gardens, native plantings, native trees, cisterns and vegetated swales. Record participation numbers annually.</p>	<p>The JCSMP provides financial support to cities to offer the “Contain the Rain” program to their residents. This is a 50% cost share program for residents to install stormwater treatment BMPs on their property.</p> <p>Residents in Shawnee completed 7 projects in 2023. They installed 12 rain barrels and various native plants.</p> <p>Bridging the Gap – JCSMP partners with them to support homeowners BMP Cost Share Program. The created “Contain the Rain” and developed a website, <a href="http://www.containtherainjoco.com">www.containtherainjoco.com</a> where homeowners have access to resources on native plants, trees, rain barrels, etc.</p>	<p>2</p>
<p>P I/P – 07</p> <p>Shawnee</p>	<p>Enact either an ordinance, a resolution, or other enforceable requirement that requires pet owners or their keepers to immediately and properly dispose of their pet's solid waste deposited at parks or rest areas owned by the permittee.</p> <p>The ordinance or resolution or other enforceable measure shall be enacted, and signs posted informing the public of their obligation at the park. The installation of a pet waste bag dispenser in the public area qualifies as adequate signage.</p>	<p>Shawnee Ordinance 2886 was adopted in 2005.</p> <p>Municipal Code 12.12.095 – Use of Parks and Cemetery – Restrictions: This code outlines that dog owners are responsible for removing and properly disposing of dog defecation.</p>	<p>1</p>
<p>P I/P – 08</p> <p>JCSMP</p>	<p>Provide a monetary donation to a scholarship fund for students pursuing a degree in an environmental program which would qualify them to work in a field which can result in water pollution control.</p> <p>A \$500 contribution in a year is the minimum acceptable amount to achieve this goal.</p>	<p>The JCSMP SMP funded the work of a University of Kansas graduate student to support their studies and research associated with a water quality project. The amount provided in scholarship is \$20,000 between 2021 – 2024.</p>	<p>2</p>
<p><b>TOTAL POINTS CLAIMED FOR PUBLIC INVOLVEMENT AND PARTICIPATION</b> </p>			<p><b>8</b></p>

**D. SMP Requirements (Six Minimum Control Measures) (Continued)**

1. Illicit Discharge Detection and Elimination

Please place an "X" in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Has a program/plan been developed and is it presently implemented to detect and address illicit/prohibited discharges into the MS4?</p> <p>If yes, describe the plan below:</p> <p>Public Works Stormwater Division CCTV's hundreds of miles of pipe annually, we target 5%-10% of our inventory. City staff then reviews the CCTV &amp; reports when submitted. If illicit discharge is noted in a pipe or structure, City staff creates a Service Request in CityWorks and it is followed up on.</p> <p>Hundreds of structures and outfalls are also inspected annually. If illicit discharge is noted, City staff creates a Service Request in CityWorks and it is followed up on.</p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Has a map of the MS4 been developed, showing the location of all outfalls, either pipes or open channel drainage, showing names and location of all streams or lakes receiving discharges from the outfalls? If yes, attach map. Yes, it is attached.</p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>The permit may require the permittee enact ordinances, or resolutions. Have ordinances, or resolutions, or regulations to prohibit non-stormwater discharges into the storm sewer system been enacted?</p> <p>If yes, list ordinances/resolutions and their effective dates below:</p> <p><b>Shawnee Ordinance 2824 – Effective Date: October 1, 2006</b></p>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Have the ordinances, resolutions, or regulations been modified?</p> <p>If yes, list ordinances/resolutions and their effective dates below:</p>

List all the Illicit Discharge Detection and Elimination BMPs as identified in the SMP and provide the requested information in the following table

**E. Stormwater Management Program Requirements (Six Minimum Control Measures) (CONTINUED)**

**3. Illicit Discharge Detection and Elimination (Table)**

List all illicit discharge detection and elimination BMPs as identified in the SMP and provide the requested information in the following table. The BMPs listed in the below table **should add up to a minimum of 7 points.**

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>	<b>POINTS CLAIMED</b>
<p>ID D &amp; E – 02  JCSMP</p>	<p>Implement a program to abandon failed or failing residential or commercial on-site wastewater treatment facilities. These on- site wastewater treatment systems such as septic tank - lateral systems or lagoon systems are then connected to the municipal wastewater collection system for treatment of wastewater at the municipal wastewater treatment plant. Alternately, upgrade or replace the failed system to restore performance.</p> <p>Redirect the wastewater generated by the facility to the municipal wastewater treatment collection system for proper treatment and disposal. Alternately, upgrade or replace the failed system with improvements which meet or exceed the present code or local requirements.</p>	<p>The Johnson County Department of Health and Environment operates the On-Site Sewage Treatment Systems Program to protect the health and environment of Johnson County citizens by ensuring the proper design and operation of on-site septic systems. The program inspects new residential and commercial on-site septic systems, existing commercial systems, and existing residential systems subject to property transactions and requires repairs when systems are not functioning correctly.</p> <p><u>Onsite Sewage Treatment Inspections</u> 225 – In Shawnee</p>	<p>2</p>

<p>ID D &amp; E – 06  Shawnee</p>	<p>Inspect, by televising pipelines or direct visualization of open channel drainage, 2% of the MS4 system within the permit area all conducted within a 12-month period to aid in identifying illicit discharges as well as evaluate the condition of the storm sewer lines/drainage channels-ditches. If in a 12-month period 10% of the MS4 system is inspected a higher point value may be claimed.</p> <p>Generate a summary report of the inspection including the number of linear feet televised, number of linear feet visually inspected, condition comments, illicit discharges identified and the results of efforts to eliminate illicit discharges, e.g., discharge line disconnected and redirected to the sanitary sewer or discharge practice terminated.</p>	<p>Shawnee has 192 miles of pipes. In 2023, 14 miles of pipe were CCTV'd = 7.3% of inventory.</p> <p>A GIS map and dashboard is in place for staff and citizens to review and view.</p>	<p>3</p>
<p>ID D &amp; E – 07  JCSMP</p>	<p>Implement a Household Hazardous Waste Collection Program (HHWCP) 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 wastes at the HHWCP during a calendar year. Retain this documentation on file.</p>	<p>JoCo SMP provided funding in 2023 to both the JoCo HHW and City of Olathe HHW facilities to ensure all citizens in the County could utilize these facilities.</p> <p>18,870 residents used the HHW facilities 1,226 residents were from Shawnee</p>	<p>3</p>
<p>ID D &amp; E – 10  Shawnee</p>	<p>Inspect, 5% of the MS4 system Stormwater inlets and/or outfalls within the permit area all conducted within a 12-month period to aid in identifying illicit discharges. If in a 12-month period 15% of the MS4 system inlets and/or outfalls are inspected a higher point value may be claimed in the year the required percentage of inspections are completed.</p> <p>Generate a summary report of the inspection including the number of inlets and/or outfalls visually inspected , condition comments, illicit discharges identified and the results of efforts to eliminate illicit discharges</p>	<p>718 inlet and/or outfall inspections completed by CCTV = 7.5% of inventory.</p> <p>380 inlet and/or outfall inspections completed.</p> <p>GIS tracks all pipe and inspections and links them to our GIS system. Any illicit discharges found are put into our CityWorks program as a service request. City staff reviews the services requests and works with the property owner and/or other identified entities to abate the issue. Pollution reports can be run in the CityWorks program.</p>	<p>3</p>
<p><b>TOTAL POINTS CLAIMED FOR ILLICIT DISCHARGE DETECTION AND ELIMINATION</b> →</p>			<p><b>11</b></p>



**E. SMP Requirements (Six Minimum Control Measures) (Continued)**

2. Construction Site Stormwater Runoff Control

Please place an "X" in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The permit requires the permittee, if they have such authority, to enact ordinances or resolutions. Have ordinances or resolutions to address construction site runoff from new development/redevelopment projects been enacted?
			If yes, list ordinances/resolutions and their effective dates below:  <p style="text-align: center;"><b>Shawnee Ordinance 2867 – Effective Date: January 1, 2008</b></p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a copy of the ordinances or resolutions been submitted to KDHE as required by the permit?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a procedure or program been developed requiring construction site owners and/or operators to implement appropriate erosion and sediment control best management practices?
			If yes, describe plan below: Yes – Land Development Permits (LDP) <ul style="list-style-type: none"> <li>• LDP permit required for:                             <ul style="list-style-type: none"> <li>○ Any disturbed area over 1 acre</li> <li>○ Cut or fill of 50 cy or more</li> <li>○ Construction of a structure 1000 SF or more</li> <li>○ Work within 50 feet of a drainage way</li> </ul> </li> <li>• Low impact LDP required for projects listed above, with an area less than an acre disturbed.</li> </ul>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a procedure or program been developed requiring construction site owners and/or operators to control waste such as discarded building materials, concrete truck washout, chemicals, paint, litter, and sanitary waste at construction sites likely to cause adverse impacts to water quality?
			If yes, describe procedure/program below: Yes – As part of a building permit and/or LDP permit: <ul style="list-style-type: none"> <li>• Waste containers are required on site for litter</li> <li>• Toilet facilities required onsite but not near storm drains</li> <li>• Concrete washouts required near all construction projects</li> </ul>

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Has a procedure been developed and implemented requiring site plan review which includes consideration of potential water quality impacts?</p> <hr/> <p>If yes, describe procedure below:</p> <p>Yes –</p> <p>All LDP permits require and are reviewed by office staff for compliance with Shawnee municipal code, state and federal requirements.</p> <ul style="list-style-type: none"> <li>• Erosion control plans</li> <li>• Grading plans</li> <li>• SWPPPs if over 1 acre</li> <li>• Bonds</li> <li>• NOI from state if over 1 acre</li> <li>• QECS for projects over 1 acre.</li> </ul>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Has a procedure been developed for the receipt and consideration of information submitted by the public?</p> <hr/> <p>If yes, describe procedure below:</p> <p>The public can contact City staff and report concerns/issues they find regarding construction sites. They can also submit an electronic Citizen Service Request, which tracks concerns/issues and City actions regarding the findings. The reporting system can be found on Shawnee’s city website, <a href="https://www.cityofshawnee.org/cms/one.aspx?pageId=9497773">https://www.cityofshawnee.org/cms/one.aspx?pageId=9497773</a></p> <p>The public can also submit concerns using the application – See, Click, Fix.</p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Has a procedure been developed and implemented for construction site inspection and enforcement of the control measures?</p> <hr/> <p>If yes, describe procedure below:</p> <p>Yes –</p> <ul style="list-style-type: none"> <li>• Initial City staff inspection at beginning of project to ensure projects are in compliance with erosion plans.</li> <li>• Projects over 1 acre have a QECS inspect project for compliance as required by state and Shawnee municipal code.</li> <li>• Periodic inspections completed by City staff throughout project.</li> <li>• Final inspection required to ensure site has been restored.</li> </ul>

List all the construction site stormwater runoff control BMPs as identified in the SMP and provide the requested information in the following table

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**E. Stormwater Management Program Requirements (Six Minimum Control Measures) (CONTINUED)**

4. Construction Site Stormwater Runoff Control (Table)

List all construction site stormwater runoff control BMPs as identified in the SMP and provide the requested information in the following table. The BMPs listed in the below table **should add up to a minimum of 6 points.**

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>	<b>POINTS CLAIMED</b>
<p>P-CSM-01  Shawnee</p>	<p>Develop and adopt a custom design manual for Post-Construction Stormwater Management which specifies various structural BMPs which are required for new development and re-development construction sites which are greater than 1 acre for which there is construction activity disturbing less than one acre which is part of a larger common plan of development or sale that in total disturbs one acre or more. 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: -&gt; Capture, at least, the first 0.5 inches of precipitation on the development/re-development site and utilize methods to prevent discharge off-site.</p>	<p>Shawnee has adopted APWA 5600 Stormwater Design Criteria as outlined in Shawnee Design and Construction Manual (SDCM) – 1.01 General.</p> <p>Shawnee has adopted MARC/APWA BMP Manual.</p>	<p>5</p>

<p>P-CSM-03 Shawnee</p>	<p>Develop and implement a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned or operated post- construction structural stormwater BMP facilities. The program shall address several different types of these BMP systems. The systems, which are addressed, shall include any type of post-construction structural BMP system, contained in the MS4. These shall include, if so present, at a minimum of the following:</p> <ul style="list-style-type: none"> <li>-&gt; detention ponds</li> <li>-&gt; retention ponds</li> <li>-&gt; grass swales</li> <li>-&gt; pervious paving systems</li> <li>-&gt; wetlands</li> <li>-&gt; vegetative filter strips</li> <li>-&gt; manufactured stormwater treatment devices (swirl separators, screened, etc.)</li> <li>-&gt; drop inlet-catch basin</li> </ul> <p>The program shall be detailed in a written document and made available to all pertinent maintenance staff.</p>	<p>Per Shawnee Municipal Code, all Stormwater Treatment Facilities are certified annually and Detention Basins are inspected annually and certified every three (3) year, and that includes City owned facilities.</p> <p><u>City Ordinances:</u> 11.24.140 – Stormwater detention facility, Inspections and Certifications.</p> <p>11.16.160 – Stormwater Treatment Facility (STF) Certifications.</p> <p>Once the Inspection or Certification is received, City staff makes sure the noted maintenance items are addressed. All documentation is conveyed to the City Department that maintains that facility.</p> <p>Public Works Stormwater Division also administers an annual Stormwater Treatment Facility cleaning contract for City owned STFs</p>	<p>2</p>
<p>P-CSM-04 Shawnee</p>	<p>Develop a master plan or comprehensive development plan which establishes zoning and development standards with establishment of both structural and non-structural BMPs intended to avoid or minimize adverse water quality impacts post- construction.</p> <p>Runoff problems can be addressed efficiently with sound planning procedures.</p> <p>This mast or comprehensive development plan must include, if not already implemented, a zoning ordinance, a stream buffer ordinance, site plan development requirements which include minimizing the increase of impervious surfaces and maximization/preservation of open space. The plan must also impose requirements for new development or re-development projects to utilize stormwater retention or detention BMPs and vegetative BMPs (such as grassy swales, filter strips, artificial wetlands, and rain gardens.)</p>	<p>Through the SDCM, Shawnee adopted the APWA BMP Manual. Shawnee also has a section on treatment in the Shawnee Municipal Code.</p>	<p>2</p>

<p>P-CSM-05 Shawnee</p>	<p>Develop and implement a program for inspection of permittee owned structural BMPs which includes implementation of needed maintenance to ensure long-term operation of the BMPs.</p> <p>Database Updated "The program shall require inspection of at least 10% of the structural BMPs on an annual basis.</p> <p>Identified maintenance activities shall be completed:</p> <ol style="list-style-type: none"> <li>1. In the same year of inspection or</li> <li>2. completed as dictated by the permittee's maintenance/O&amp;M plan</li> <li>3. or a written plan for completion of the necessary maintenance shall be completed in the same year of inspection with the objective for completion of the maintenance activity within 18 months.</li> </ol>	<p>Shawnee maintains a GIS database to track certifications and inspections of all detention basins and stormwater treatment facilities (STFs) throughout the city, including City owned.</p> <p>Shawnee has a program to clean, inspect and certify STFs annually as required by City ordinance. Detention basins are certified every 3 years, as required by City ordinance.</p> <p>Shawnee has over 570 Detention Basin and STFs, this includes City owned facilities. Last year, 281 Detention Basins and STFs were inspected and/or certified = 50%</p> <p><u>2023 Inspections:</u></p> <ul style="list-style-type: none"> <li>• 11 Detention Basins</li> </ul> <p><u>2023 Certifications:</u></p> <ul style="list-style-type: none"> <li>• 139 Detention Basins</li> <li>• 131 Stormwater Treatment Facilities</li> </ul>	<p>2</p>
<p>P-CSM-06 Shawnee</p>	<p>Develop and implement a program for inspection of known privately owned structural BMPs which includes providing the owner of the BMPs an inspection report which specifies needed maintenance to ensure long-term operation of the BMPs.</p> <p>The program shall require inspection of at least 10% of the known privately owned structural BMPs on an annual basis.</p> <p>Identified maintenance activities shall be completed in the same year of inspection or a written plan for completion of the necessary maintenance shall be completed in the same year of inspection with the objective for completion of the maintenance activity within 18 months.</p>	<p>Per Shawnee Municipal Code – Property owners are required to Certify STFs Annually and Detention Basins every three (3) years. BMPs are required to be Certified by a licensed engineer. The 3<sup>rd</sup> party engineer outlines any needed maintenance items on the certification. City staff follows up with property owners to make certain corrective measures are taken.</p> <p>Shawnee has over 570 Detention Basin and STFs. Last year, 281 Detention Basins and STFs were inspected and/or Certified = 50%</p> <p><u>2023 Inspections:</u></p> <ul style="list-style-type: none"> <li>• 11 Detention Basins</li> </ul> <p><u>2023 Certifications:</u></p> <ul style="list-style-type: none"> <li>• 139 Detention Basins</li> <li>• 131 Stormwater Treatment Facilities</li> </ul>	<p>2</p>
<p><b>TOTAL POINTS CLAIMED FOR CONSTRUCTION SITE STORMWATER RUNOFF CONTROL</b> →</p>			<p><b>13</b></p>

**E. SMP Requirements (Six Minimum Control Measures) (Continued)**

**3. Post-Construction Site Stormwater Management in New Development and Redevelopment**

Please place an “X” in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>The permit requires the permittee, if they have such authority, to enact ordinances or resolutions. Have ordinances or resolutions to address construction site runoff from new development and redevelopment projects been enacted?</p> <p>If yes, list ordinances/resolutions and their effective dates below:</p> <p><b>Shawnee Ordinance 2958 - Effective Date: March 31, 2010</b></p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a copy of the ordinances or resolutions been submitted to KDHE as required by the permit?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Has a post-construction stormwater runoff program been implemented?</p> <p>If yes, describe the program below:</p> <p>Shawnee’s Community Development Department reviews all new and redevelopment plans and approves them. Community Development issues Land Disturbance Permits for all projects disturbing more than 1 acre in Shawnee. They inspect all active construction sites and insure adequate erosion control measures are in place, throughout construction. When the project is complete and development requirements are met, Community Development approves the project.</p> <p>After the project is approved, the Public Works Department uses the Community Development plans, As Builts, easement documents, etc. to inspect required post-construction BMPs on all projects.</p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have post-construction sites been inspected?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are BMPs specified to minimize adverse water quality impacts?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have strategies been developed to include a combination of structural and/or non-structural BMP appropriate for the municipality?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Have measures been implemented to ensure adequate long-term operation and maintenance of structural BMPs?</p> <hr/> <p>If yes, describe measures below:</p> <p>Shawnee has adopted two (2) City Ordinances, to require property owners to inspect, certify and maintain the stormwater facilities on their property:</p> <ul style="list-style-type: none"> <li>• 11.24.140 – Stormwater detention facility, Inspections and Certifications.</li> <li>• 11.16.160 – Stormwater Treatment Facility (STF) Certifications.</li> </ul> <p>Public Works Stormwater staff enforces the ordinances and makes sure all property owners are maintaining their stormwater facilities on a routine basis. Reports are required to be submitted to City staff by October 1<sup>st</sup> annually, for review. City staff reviews the inspections and certifications and requires property owners to maintain their stormwater facilities as noted on the certification, by a 3<sup>rd</sup> party licensed engineer.</p>
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List all the post-construction site stormwater management in new development and redevelopment BMPs as identified in the SMP and provide the requested information in the following table.



**E. Stormwater Management Program Requirements (Six Minimum Control Measures) (CONTINUED)**

5. Post-Construction Stormwater Management (Table)

List all post-construction stormwater management BMPs as identified in the SMP and provide the requested information in the following table. The BMPs listed in the below table **should add up to a minimum of 7 points.**

BMP ID NUMBER	BRIEF BMP DESCRIPTION	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)	POINTS CLAIMED
<p>P-CSM-01  Shawnee</p>	<p>Develop and adopt a custom design manual for Post-Construction Stormwater Management which specifies various structural BMPs which are required for new development and re-development construction sites which are greater than 1 acre for which there is construction activity disturbing less than one acre which is part of a larger common plan of development or sale that in total disturbs one acre or more. 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: -&gt; Capture, at least, the first 0.5 inches of precipitation on the development/re-development site and utilize methods to prevent discharge off-site, including but not limited to:     Retain on-site     Infiltrate     Evaporate     Transpire     Or beneficially reuse</p> <p>As an alternative to a custom design manual the APWA 5600 Stormwater Design Criteria and the MARC/APWA BMP Manual may be adopted and implemented. Measures must be included to enforce the installation of the various structural BMPs required.</p>	<p>Shawnee has adopted APWA 5600 Stormwater Design Criteria as outlined in Shawnee Design and Construction Manual – 1.01 General.</p> <p>Shawnee has adopted MARC/APWA BMP Manual.</p>	<p>5</p>

<p>P-CSM-03 Shawnee</p>	<p>Develop and implement a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned or operated post- construction structural stormwater BMP facilities. The program shall address several different types of these BMP systems. The systems, which are addressed, shall include any type of post-construction structural BMP system, contained in the MS4. These shall include, if so present, at a minimum of the following:                  -&gt; detention ponds                  -&gt; retention ponds                  -&gt; grass swales                  -&gt; pervious paving systems                  -&gt; wetlands                  -&gt; vegetative filter strips                  -&gt; manufactured stormwater treatment devices (swirl separators, screened, etc.)                  -&gt; drop inlet-catch basin</p> <p>The program shall be detailed in a written document and made available to all pertinent maintenance staff.</p>	<p>Per Shawnee Municipal Code, City owned Stormwater Treatment Facilities are inspected and certified annually and Detention Basins are certified every three (3) years.</p> <p>City Ordinances:                  11.24.140 – Stormwater detention facility, Inspections and Certifications.</p> <p>11.16.160 – Stormwater Treatment Facility (STF) Certifications.</p> <p>The program is administered by Public Works stormwater staff annually to make sure all property owners are maintaining, inspecting and/or certifying the stormwater facilities on their property.</p>	<p>2</p>
<p>P-CSM-04 Shawnee</p>	<p>Develop a master plan or comprehensive development plan which establishes zoning and development standards with establishment of both structural and non-structural BMPs intended to avoid or minimize adverse water quality impacts post- construction. Runoff problems can be addressed efficiently with sound planning procedures.</p> <p>This master or comprehensive development plan must include, if not already implemented, a zoning ordinance, a stream buffer ordinance, site plan development requirements which include minimizing the increase of impervious surfaces and maximization/preservation of open space. The plan must also impose requirements for new development or re-development projects to utilize stormwater retention or detention BMPs and vegetative BMPs (such as grassy swales, filter strips, artificial wetlands, and rain gardens.)</p>	<p>Through the SDCM, Shawnee adopted the APWA BMP Manual. Shawnee also has a section on treatment in the Shawnee Municipal Code.</p>	<p>2</p>

<p>P-CSM-05 Shawnee</p>	<p>Develop and implement a program for inspection of permittee owned structural BMPs which includes implementation of needed maintenance to ensure long-term operation of the BMPs</p> <p>Database Updated "The program shall require inspection of at least 10% of the structural BMPs on an annual basis.</p> <p>Identified maintenance activities shall be completed:                      1. In the same year of inspection or                      2. completed as dictated by the permittee's maintenance/O&amp;M plan                      3. or a written plan for completion of the necessary maintenance shall be completed in the same year of inspection with the objective for completion of the maintenance activity within 18 months.</p>	<p>Shawnee maintains a GIS database to track certifications and inspections of all detention basins and stormwater treatment facilities (STFs) throughout the city, including City owned.</p> <p>Shawnee has a program to clean, inspect and certify STFs annually. Detention basins are certified every 3 years, as required by City ordinance.</p> <p>Shawnee has over 570 Detention Basin and STFs, this includes City owned facilities. Last year, 281 Detention Basins and STFs were inspected and/or certified = 50%</p> <p><u>2023 Inspections:</u></p> <ul style="list-style-type: none"> <li>• 11 Detention Basins</li> </ul> <p><u>2023 Certifications:</u></p> <ul style="list-style-type: none"> <li>• 139 Detention Basins</li> <li>• 131 Stormwater Treatment Facilities</li> </ul>	<p>2</p>
<p>P-CSM-06 Shawnee</p>	<p>Develop and implement a program for inspection of known privately owned structural BMPs which includes providing the owner of the BMPs an inspection report which specifies needed maintenance to ensure long-term operation of the BMPs.</p> <p>The program shall require inspection of at least 10% of the known privately owned structural BMPs on an annual basis.</p> <p>Identified maintenance activities shall be completed in the same year of inspection or a written plan for completion of the necessary maintenance shall be completed in the same year of inspection with the objective for completion of the maintenance activity within 18 months.</p>	<p>Per Shawnee Municipal Code – Property owners are required to Certify STFs Annually and Detention Basins every three (3) years. BMPs are required to be Certified by a licensed engineer. The 3<sup>rd</sup> party engineer outlines any needed maintenance items on the certification. City staff follows up with property owners to make certain corrective measures are taken.</p> <p>Shawnee has over 570 Detention Basin and STFs. Last year, 281 Detention Basins and STFs were inspected and/or Certified = 50%</p> <p><u>2023 Inspections:</u></p> <ul style="list-style-type: none"> <li>• 11 Detention Basins</li> </ul> <p><u>2023 Certifications:</u></p> <ul style="list-style-type: none"> <li>• 139 Detention Basins</li> <li>• 131 Stormwater Treatment Facilities</li> </ul>	<p>2</p>
<p><b>TOTAL POINTS CLAIMED FOR POST-CONSTRUCTION STORMWATER MANAGEMENT</b></p>			<p><b>13</b></p>

**E. SMP Requirements (Six Minimum Control Measures) (Continued)**

4. Municipal Pollution Prevention/Housekeeping

Please place an "X" in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>The permit requires the permittee to enact a program to address pollution prevention/good housekeeping for Municipal Operations. Has such a program been enacted?</p> <hr/> <p>If yes, describe program below:</p> <p>Shawnee has a Safety Committee that meets regularly to address employee and facility safety and/or maintenance concerns. Department staff work maintain their facilities daily.</p> <p>Shawnee adopted Administrative Code AC 6-2 in 2008, City Facility Recycling Policy, which requires recycling of various material; oil, batteries, glass, metal, electronic waste, etc.</p> <p>Shawnee adopted Policy 10.07 Hazardous Communications, which pertains to hazardous waste at all facilities.</p> <p>City staff along with an outside KERIT representative inspects all of our facilities annually for safety. That insures hazardous material is noted, labeled and disposed of properly. Department staff also cleans their facilities and sites routinely, including parking lot sweeping as needed.</p>

List all the municipal pollution prevention/housekeeping BMPs as identified in the SMP and provide the requested information in the following table.

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**E. Stormwater Management Program Requirements (Six Minimum Control Measures) (CONTINUED)**

6. Municipal Pollution Prevention / Housekeeping (Table)

List all municipal pollution prevention / housekeeping BMPs as identified in the SMP and provide the requested information in the following table. The BMPs listed in the below table **should add up to a minimum of 6 points.**

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>	<b>POINTS CLAIMED</b>
<p>P P/G H – 05  Shawnee</p>	<p>Implement a program for street sweeping in which the street sweepings are collected and disposed of properly or recycled/reused if possible.</p> <p>All paved streets which can be swept shall be listed in the schedule for street sweeping. A log shall be maintained listing the street segments which are swept and, dates of sweeping and where the street sweepings are disposed or where the material was sent to be recycled and/or reused.</p>	<p>2,362 lane miles of streets were swept in Shawnee.</p> <p>Residentials – 2 x in 2023 Collectors – 3 x in 2023 Arterials – 6 x in 2023 Downtown – 12 x in 2023 Bike Lanes – 32 x in 2023</p> <p>Shawnee has a full time dedicated sweeper and sweeper operator for this program.</p>	<p>3</p>
<p>P P/G H – 06  Shawnee</p>	<p>Develop an employee training program to ensure permittee's staff understand what actions they can take in the workplace to minimize stormwater pollution.</p> <p>Provide guidance documents in the form of either fact sheets, flyers or e-mails to staff to coach them in appropriate actions they can take while working to minimize stormwater pollution. Alternately, provide in-person training or videos with sign-in- sheets for signature documentation of personal or video training.</p> <p>Retain copies of the guidance documents and/or sign-in-sheets. A log of when the guidance was distributed, or training was provided to staff should be maintained.</p> <p>Provide appropriate guidance and/or training to staff a minimum of twice per year.</p>	<p>In-house employee training was completed in 2023 for Public Works, Parks and Community Development employees.</p> <p><u>A handout was provided to staff along with a presentation:</u></p> <p>6 – Parks field staff (12/14/2023) 34 – Public Works Field Operations staff (12/14/2023) 13 – Public Works City Hall staff (12/11/2023) 19 – Community Development staff (12/13/2023)</p>	<p>1</p>

<p>P P/G H – 08</p> <p>Shawnee</p> <p>&amp;</p> <p>JCSMP</p>	<p>Develop, implement and keep updated an online storm sewer map accessible to the public.</p> <p>Map shall cover the entire MS4 within the permit area and include all the MS4 lines both pipe and open drainage (i.e. ditches) and shall also illustrate all impaired waterways.</p>	<p>Shawnee’s stormwater map is available to the public on Shawnee’s website.  <a href="https://cityofshawneeks.maps.arcgis.com/apps/instant/sidebar/index.html?appid=e19418d523d9461ab0fff2ebc7b8654b">https://cityofshawneeks.maps.arcgis.com/apps/instant/sidebar/index.html?appid=e19418d523d9461ab0fff2ebc7b8654b</a></p> <p>*****</p> <p>The Johnson County Automated Information Mapping System (<a href="https://aims.jocogov.org/">https://aims.jocogov.org/</a>) is a publicly available mapping system showing the MS4 lines and TMDL listed streams for all municipalities in Johnson County.</p>	<p>2</p>
<p>P P/G H – 12</p> <p>Shawnee</p>	<p>Install a stormwater treatment system for capture of either trash, sediment, or debris. Systems may include any proprietary stormwater treatment system including CDS, Hancor, Enviro 21, etc. or similar custom designed systems. A system can be installed at a single municipal storm sewer outfall or on the storm sewer line immediately upstream of the outfall to reduce the discharge of floatables or other objects to receiving waters. Alternately, a system may be installed on a stormwater line to provide treatment at problem locations.</p> <p>The treatment system or method must be capable of continuous operation during stormwater discharges. An emergency bypass or overflow line can be included to avoid surcharging/flooding in the event the system is overloaded or fails to operate properly at any time. A log of the material (noting either volume or weight) captured and prevented from discharge to the receiving water shall be maintained.</p>	<p>Shawnee installed a Stormwater Treatment Facility (STF 78.01), hydrodynamic separator, at Fire Station 78 at 5300 Woodsonia. It was installed in 2019.</p> <p>We also have a hydrodynamic separator installed in Erfurt Park in 2019.</p>	<p>2</p>
<p><b>TOTAL POINTS CLAIMED FOR MUNICIPAL POLLUTION PREVENTION / HOUSEKEEPING</b> →</p>			<p><b>8</b></p>

**SMP Requirements (Six Minimum Control Measures) (Continued)**

**5. PHASE ONE OPERATORS ONLY:** Monitoring Industrial and High-Risk Runoff

The permit requires the permittee to enact a program to address post-construction site stormwater runoff from new development and redevelopment.

Please place an “X” in the left boxes to complete the table below.

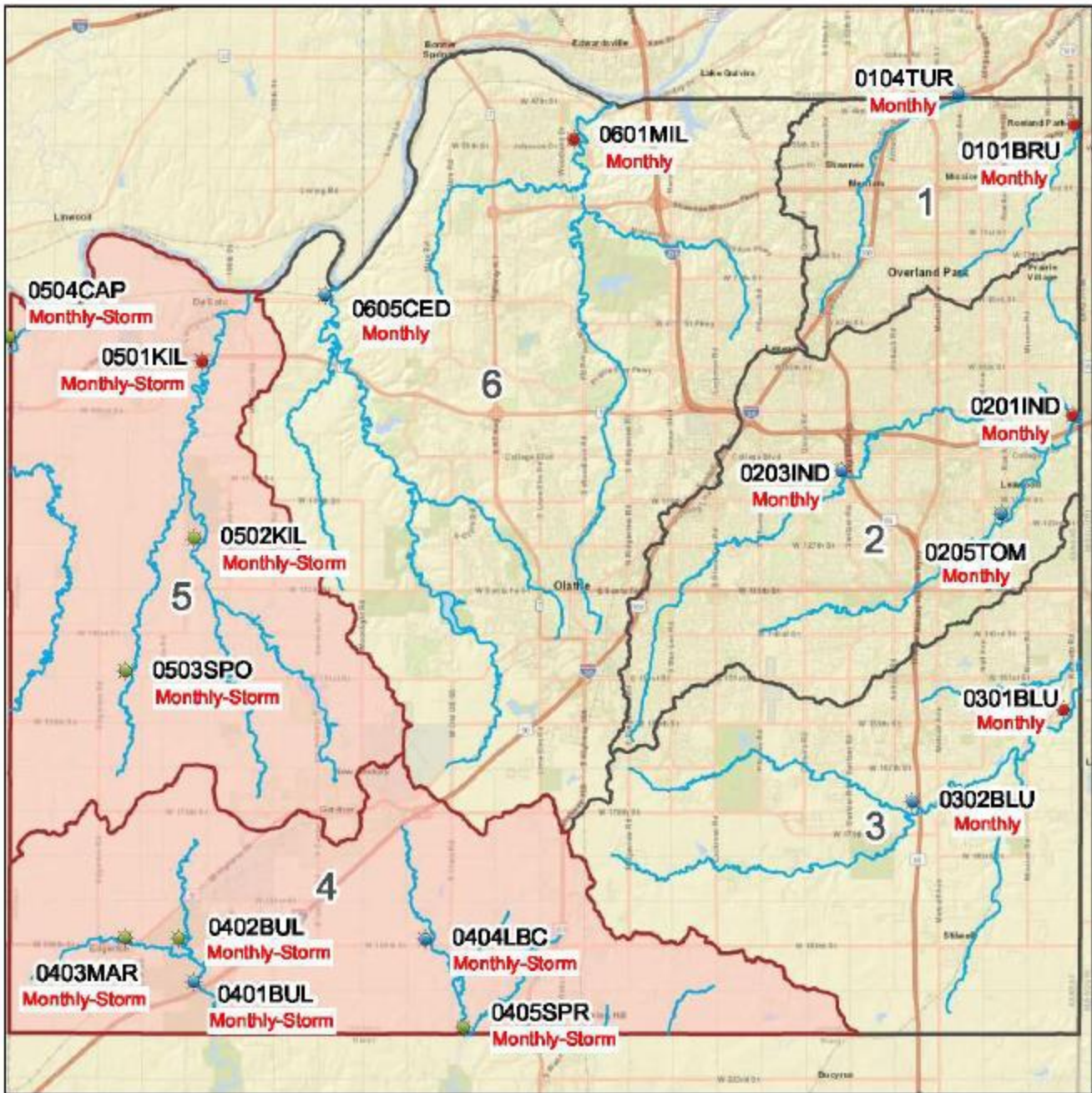
YES	NO	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Has the permittee developed and maintained a list of the municipal industrial facilities contributing to the pollutant loading to the MS4?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Have at least two municipal industrial facilities on the list had inspection and sampling conducted? If yes, list inspected facilities and the results of the inspections below:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If the answer to items 1 and 2 is “No,” provide a statement.   

**E. Recordkeeping and Reporting**

Some permittees are required to monitor surface waters if the permit includes TMDL monitoring requirements for Specific Impaired Streams to Target within Part II of the permit and surface water monitoring locations are identified in a subsequent table. Provide a current map of monitoring locations and site information data in the succeeding table (expand the table if necessary to address all sites).

The City of Shawnee previously reported two (2) creek monitoring locations, Little Mill Creek and Clear Creek. In 2018/2019, Johnson County Stormwater Management Program reviewed all the locations in the County being monitored and they proposed a different plan to KDHE for future monitoring. It was believed that alternate sampling and testing locations would provide more valuable information for all jurisdictions in Johnson County. Johnson County, received confirmation on March 19, 2019, from KDHE that Johnson County would be allowed to implement the new monitoring program.

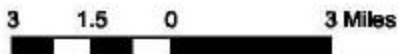
In 2019, Johnson County Stormwater Management Program implemented the County wide monitoring program and they started submitting the electronic data for all jurisdictions. The City of Shawnee will not be submitting data in the KEAP eDMR system for Little Mill Creek or Clear Creek. Please see the Johnson County monitoring locations on the following map. The JCSMP monitored one (1) creek location monthly in Shawnee in 2023, Mill Creek.



**Legend**

18 Monthly Sampling Sites (Apr. - Sept.)  
 9 Storm Sampling Sites (3 max. events)

- Fixed / Rotating Station
- Fixed Station
- Rotating Station
- Major Stream
- Watersheds



**GBA**

PROJECT NUMBER  
14256.23  
DATE  
3/9/2023

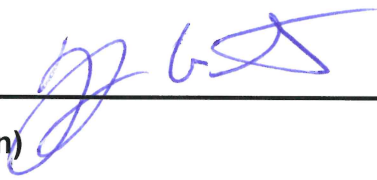
**LOCATION MAP**  
2023 SMP WQ Monitoring  
Various Locations around  
Johnson County, Kansas

FIGURE  
**1**



**Certification**

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Signature of Permittee:  Date Signed 2/27/24  
(Legally responsible person)

Name Printed: Doug Whitacre Title Interior City Mgr.

**40 CFR 122.22 Signatories to permit applications and reports.**

(a)Application. All permit applications shall be signed by either a principal executive officer or ranking elected official.

All reports required by permits, and other information requested by the Director shall be signed by a person described in paragraph (a) of this section, or by a duly authorized representative of that person.

Please note the submission requirements on page 1.

**KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT**

Municipal Programs Unit

1000 SW Jackson Street, Suite 420

Topeka, Kansas 66612

[KDHE.MS4@ks.gov](mailto:KDHE.MS4@ks.gov)

## Executive Summary

Append an executive summary to this report which briefly covers the major aspects of the MS4 stormwater management program enacted during the year. In completing the executive summary, the preparer should address the following questions:

1. Were there any aspects of the program that appeared especially effective at reducing pollutants in your stormwater discharge?

We believe that our efforts under public education (MCM 1) that were focused on Only Rain Down the Drain, importance of picking up of pet waste and various stormwater topics were successful at reaching a broad number of residents with messaging, that hopefully will increase awareness and encourage positive behavior changes.

We also believe issuing land disturbance permits and inspecting active projects for effective erosion control measures is extremely effective in reducing stormwater pollutants along with increased inspection of detention basins and stormwater treatment facilities.

2. Were there any aspects of the program that provided unsatisfactory results?

No, there were no aspects of the program that provided unsatisfactory results.

3. What was the most successful part of the program?

I think public education and outreach efforts through the multiple approaches from the city, county, and regional levels was very successful. The ability to conduct outreach through multiple outlets increases the public's awareness of water quality issues and is a benefit for the entire region. From Puppet Theater for smaller children to educating middle school students about water quality and testing in the creeks with a hands on classroom; those lessons are imprinted on a generation. Additionally, the partnership with K-State Extension promotes water quality messaging and provides information regarding lawn and garden care that targets a likely source for excess nutrients in urban streams. This coupled with our regional Healthy Yards Expo, which brings in over 900 residents annually to learn about lawn, garden and stormwater quality; I believe these items together make a positive impact on our regional community.

4. What was the most challenging aspect of the program?

Outreach activities with the community are still challenging after the pandemic. Staffing changes over the last few years has also been a bit challenging, working across departments and being able to effectively communicate how our work collectively impacts Shawnee's Stormwater Program and MS4 Permit.

5. Describe any City/County area MS4 clean-ups and the participation.

Adopt A Spot – Shawnee’s Adopt A Spot program also had a positive impact regarding MS4 clean-ups. Shawnee residents volunteered 555 hours and cleaned up 19 different locations, 63 different times.

Shawnee also participated in a Spring Recycling Events in 2023. There were 12 volunteers and 14 City staff members that participated in these events. Over 12,000 lbs of E-waste was recycled; over 16,500 lbs of paper was recycled; and 10 pallets of used paint was recycled.

6. Describe the elected officials’ participation in the stormwater pollution elimination.

City Elected Officials set Policy for the City of Shawnee and approve all City projects. In 2023, they approved \$9,596,357 to address failing stormwater infrastructure throughout the City. This included nine (9) pipe repair projects.

7. Describe the collaboration with other organizations to eliminate stormwater pollution.

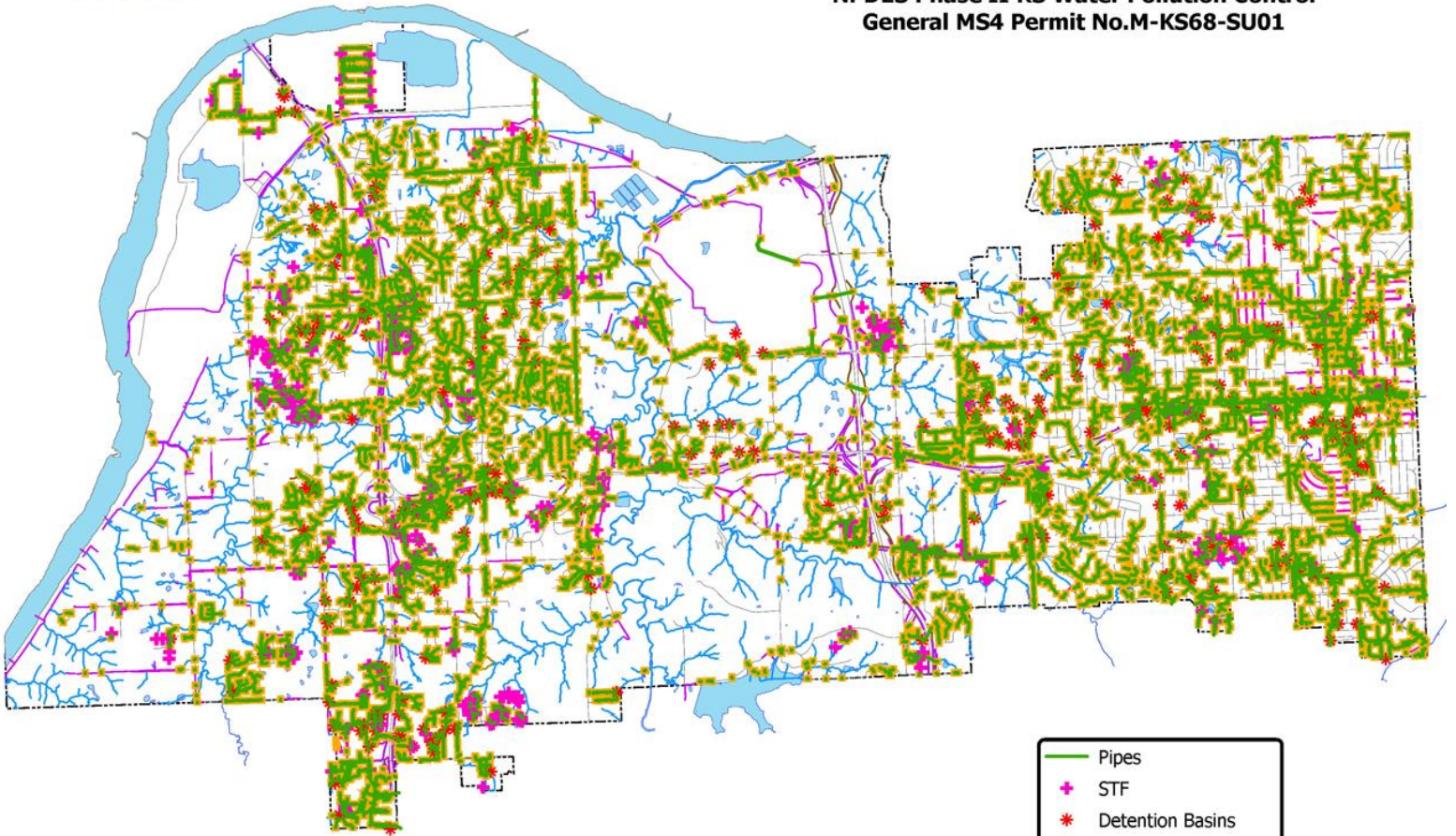
The City of Shawnee collaborated with the Johnson County Stormwater Management Program (JCSMP), who coordinated a cooperative approach for permitted Johnson County cities to help meet selected minimum control measures mandated in the NPDES Phase 2 MS4 permit. In particular, the JCSMP coordinates efforts for some of the best management practices (BMPs) for Minimum Control Measures (MCM) 1 and 2, but also assist with MCMs 3-6. The coordinated approach through this partnership has proved to be cost effective and reduces redundancy amongst the cities in Johnson County. Also, on the behalf of Johnson County cities, the JCSMP partners with Johnson County K-State Extension, Mid-America Regional Council Water Quality Education Committee, Bridging the Gap, Friends of the Kaw, Stone Lion Puppet Theater, the city of Olathe Public Works (for Household Hazardous Waste Collection), and the Johnson County Department of Health and Environment.






8. If an audit/inspection of your MS4 program was conducted by EPA or KDHE during the year, list the items the audit/inspection report identified as required changes and provide a narrative explanation of how the changes were implemented or explain the plan to implement the changes and identify a target date for final implementation .

Shawnee’s last KDHE audit was performed in 2018, there was no audit performed in 2023.



**City of Shawnee Kansas  
Storm Sewer System Map  
December 2023  
NPDES Phase II KS Water Pollution Control  
General MS4 Permit No.M-KS68-SU01**



-  Pipes
-  STF
-  Detention Basins
-  Structures
-  Rivers/Lakes/Streams

