KANSAS STORMWATER 2020 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

☐	Permittee [Agency Name] Mailing Address 1:	4600 W 51st Street
☐	Mailing Address 2:	
☐	Municipality:	Roeland Park
	State:	Kansas
☐	Zip Code:	66205
☐	MS4 Program Contact - Person:	Donnie Scharff
☐	Contact E-Mail Address:	dscharff@roelandpark.org
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☐	MS4 Program Construction Contact - Person	Donnie Scharff
☐	Construction E-Mail Address:	dscharff@roelandpark.org
☐	Contact Phone Number:	913-722-2600
☐	Kansas Permit Number: — Ex. M-MC21-SU01	M-M035-SU01

Reporting period covers activities from January 1, 2020 through December 31, 2020.

This annual report must be submitted to the Kansas Department of Health and Environment (KDHE) by February 28th, 2021. The annual report is to be submitted as PDF files to KDHE preferably on a standard compact disk (CD) or digital versatile disk (DVD). If the permittee does not have the ability to provide the files in a CD or DVD, a flash drive can be submitted. Some permittees provide additional hard copy submissions of the annual report or supplemental documents along with the electronic files. There is no requirement to provide hard copies of any documents other than a simple transmittal letter.

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.

Provided separately.

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.

Located at the end of the report. See page 25.

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

No new stormwater ordinances or revisions for 2020. A new map is provided showing the updated limits.

This template annual report document (basic report) for the 2020 reporting period has changed from the annual report format used in previous years. This document focuses on the core aspects of permit requirements including the Stormwater Management Program, the Six Minimum Control Measures (Public Education and Outreach, Public Involvement and Participation, Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post-Construction Stormwater Management in New Development and Redevelopment Projects, and Pollution Prevention/Good Housekeeping for Municipal Operations), Total Maximum Daily Load (TMDL) Best Management Practices and TMDL wet weather monitoring. Additionally, for Phase I permittees a program to monitor their listed industrial facilities is required. Although any failure to comply with a requirement of the MS4 National Pollutant Discharge Elimination System (NPDES) permit may expose the permittee to enforcement action by either the permitting authority (Kansas Department of Health and Environment) or by the Environmental Protection Agency, the failure to implement the core aspects of the permit likely increases the risk of not only enforcement but also of incurring a monetary penalty.

The permittee is well advised to accurately report the conditions and status of their stormwater program and give due consideration to improving or enhancing their program where it is weak, or deficient in any of the core aspects (stormwater management program, six minimum control measures and TMDL best management practices – if applicable – also for Phase I permittees monitoring industrial facilities).

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.

Public Education and Outreach

Due to the pandemic, most educational activities were postponed.

JCSMP sponsored a variety of BMP's on behalf of all MS4 permitted cities in Johnson County from January to March. The public education and outreach BMP's ranged from traditional face-to-face classroom education and at community events to more far-reaching print, social media, and web-based outreach. Details are provided in the Appendix.

The county sends quarterly newsletters to the residents. For 2020, there were a total of 4 topics in the newsletter (Composting Yard Waste, Fall Tree Planting (Contain the Rain), Sustainability Tips for the Summer, and advertising the Contain the Rain & Fall Leaf Pickup Programs). The articles are provided in the Appendix.

Public Involvement and Participation

By getting residents directly involved, we educate them on stormwater pollution, improve the environment and promote community ownership of stormwater quality problems and solutions. In cooperation with the JCSMP, the BMP cost-share program and free soil testing are available to residents. In addition, 9 residents took advantage of the Homeowner Stormwater BMP Cost Share program. This is an improvement compared to the previous year of having 7 participants. The public participation and involvement BMP's included the free soil testing program for Johnson County residents through Johnson County K-State Extension. We feel these BMP's are appropriate for this MCM and the local populations. Residents who take part in the free soil testing program receive a custom report with recommended rates of application and proper timing as well as education on actions that can be taken by residents to benefit water quality.

Illicit Discharge Detection and Elimination

The City of Roeland Park passed an ordinance which prohibits non-stormwater discharges into the storm sewer system. This ordinance was passed on 04/08/2006. In 2020, there were no known violations. Our ordinance gives the City the enforcement tools necessary to require responsible parties to eliminate the illicit discharges.

JCSMP sponsors countywide Household Hazardous Waste (HHW) collection at Olathe Municipal Services and the Johnson County HHW Facilities. The HHW water program encourages residents to dispose of HHW properly and reduces illegal dumping.

Construction Site Stormwater Runoff Control

The City has passed an ordinance to control the release of pollutants from construction site activities. The City has also adopted procedures for construction site inspection and enforcement of control measures. The procedures address preconstruction planning and permitting, recommended inspection frequency, recordkeeping and reporting, enforcement response plan, and tips for inspecting construction site

The Construction Site Stormwater Runoff Control Program requires sites disturbing one (1) acre or more to have erosion and sediment control plans which are reviewed based on standard specifications, details and a plan review checklist. Inspection and enforcement actions are tracked. R Park project was recently finished, passing all the required inspections. The SWPPP with completed site inspections are on file with Donnie Scharff.

Post-Construction Stormwater Management in New Development and Redevelopment Projects

The City of Roeland Park has passed an ordinance requiring control of stormwater runoff from new development and redevelopment projects that disturb greater than one acre of land, and requirements for long-term maintenance of structural controls. The City has also adopted procedures track the location of all structural controls and the contact information for the person responsible for long-term maintenance. We feel these BMP's are appropriate for this MCM and the local populations. Our ordinance gives the City the enforcement tools necessary to require owners to install and maintain post construction runoff controls.

Pollution Prevention/Good Housekeeping for Municipal Operations

The City of Roeland Park continues quarterly inspections with its adopted Public Works Municipal Facility SWPPP. The last inspection at the end of the year is a comprehensive inspection. There were no reported spills, no issues or updates needed to the program. Annual training was provided to City employees regarding keeping stormwater clean.

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.

   Roeland Park teamed up with Johnson County reimbursing 9 residents who applied and installed sustainable landscape solutions. Four native tree plantings, two rain barrels and three native plantings. This program keeps increasing with the number of City participants.

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.

   The City does not monitor TMDL's however, pet waste bags are provided at all the City parks and hope it contributes to reducing pet waste runoff from entering streams.

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.

   Elementary school activities were scheduled and had to be postponed due to the pandemic.
   Reviewing the City's ordinances and standards were scheduled to occur but nothing official was enacted. The City Engineer has been reviewing standards over the past year and will make changes when appropriate.

5. Provide a summary of the stormwater activities which are scheduled to be undertaken during the next calendar year (including an implementation schedule).

   The 2021-2024 SMP has new BMP's. Most of the new BMP's the City has selected will be transitioned over the next two years to ensure enough points are obtained. Some of the new activities include: More stormwater and illicit discharge articles in the City's newsletter (starting immediately), adding to the stormwater webpage to be more informative with educational material (beginning in 2023, planning will start 2022), Public Works is planning on starting an internship program for high school adolescents interested in public works and environmental work.

6. Provide a map showing changes in the permittee's Permit Area if the permit area has changed within the year.

A map has been provided showing the change of the City limits and the storm sewer network throughout the City.

7. Provide a description of significant changes in any of the BMPs.

   The outcome of the Public Outreach and Education BMP's were affected by the pandemic and stay home orders.

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.

   No ordinances/resolutions were updated for 2020.

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.

   The City of Roeland Park is ultimately responsible for permit compliance, however assistance with various program areas of the SMP are typically provided by the following entities:

   - *TMDL Monitoring: U.S. Geological Survey, Kansas Water Science Center, JCSMP*
   - *MCM1: Johnson County K-State Research and Extension, JCSMP, Blue River Watershed Association,*
   - *Bridging the Gap, Friends of the Kaw, Olathe North High School, Stone Lion Puppet Theater, and MARC.*
   - *MCM2: K-State Research and Extension, Olathe North High School, and JCSMP*
   - *MCM3: JCSMP, JCDHE, and JCW*
   - *MCM4: JCSMP, Johnson County Contractor Licensing*

     Record Keeping and Reporting: Assistance provided by JCSMP

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 (BMP's) 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 BMP's 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 toillegal 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. BMP's to prevent or minimize adverse water quality impacts;

b. Strategies which include a combination of structural and/or non-structural BMP's 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 BMP's

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	
☒	☐	☐	Has the Stormwater Management Program (SMP) been developed and implemented?
☒	☐	☐	Has the SMP been modified or updated during this reporting period?
☒	☐	☐	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 BMP's and/or revised goals to avoid being in a position of non-compliance. However; reasonable BMP's with reasonable goals must be implemented or KDHE may require the permittee to modify the SMP to include additional or better BMP's and/or more reasonable goals.

C. Total Maximum Daily Load (TMDL) Best Management Practices (BMP's)

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	
☐	☐	☒	Were any BMP's 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).
☐	☐	☒	List all of the BMP's 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.

D. TMDL BMP Table — Please fill out accordingly

BMP ID NUMBER	BRIEF BMP DESCRIPTION	REGULATED TMDL PARAMETERS	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
The City does not have an TMDL regulated pollutants to an impaired stream to target, however we implement the following BMPs to reduce to the MEP of TMDL pollutants from this MS4.				
	EROSION AND SEDIMENT CONTROL: Review plans, issue permits, track violations and enforcements measures.	N/A Sediment	Number of violations Enforcement measures Documented	No violations in 2020. Roe Blvd, 2020 Stormwater Maintenance and R Park projects were constructed with no violations and completed SWPPP's are on file.
	PET WASTE BAG DISPENSERS Installed in City/county parks to encourage pet owners to pick up after pets	N/A Bacteria	Number of dispensers Number bags used.	Roeland Park has 9 dispensers with approximately 52,000 bags used in 2020 ($1,520)
	FALL LEAF COLLECTION	N/A Sediment	Quantity	4,048 cubic yards of leaves collected ($12,233)
	STREET SWEEPING & CATCH BASIN CLEANOUT/ PIPE INSPECTION	N/A Sediment	Quantity	1,286 cubic yards of debris collected
	FREE SOIL TESTING FOR RESIDENTS: Educate residents that applying fertilizer without a current soil test can result in over application and excessive nutrient runoff.	N/A	Number of soil tests Education received with reports and through marketing efforts for free soil test opportunity.	Roeland Park- 3 tests Participants receive a custom report with recommended rates of application and proper timing. As well as a general stormwater quality awareness pamphlet educating homeowners on lawn and garden best management practices.

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

1. Public Education and Outreach (Table) - Please fill out accordingly

List all of the public education and outreach BMPs as identified in the SMP and provide the requested information in the following table. (List presentations and media)

BMP ID NUMBER	BRIEF BMP DESCRIPTION	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
1.1	**DEVELOP STORMWATER RELATED EDUCATION AND OUTREACH MATERIALS**		
	In School Education	Activity and number of participants	The Friends of the KAW provided classroom instruction on water quality to 23 classes totaling approximately 2300 upper elementary and middle school students across the county. The COVID Pandemic stopped all activities Mid-March. Roeland Park school activities for this annual event were not provided. Typically, 2 events occur each year for the City.
	In School Education	Activity and number of participants	Stone Lion Puppet Theater presented 10 performances on water quality to over 2200 elementary school students from January to March. Typically, the elementary school attached a total of 3 shows for 335 students.
	In addition to the City's outreach efforts, the City partners with the Johnson County Stormwater Management Program (JCSMP) to conduct stormwater education and outreach on a county-wide basis. The JCSMP also partners with Johnson County K-State Extension (KSE) for some aspects of public education and outreach-- including print media, presentations and events	Print media: Type and number of materials distributed	Johnson County Magazine: Approximately 2500 households in the City of Roeland Park received each of these four mailings. The Johnson County Magazine is distributed to all households in Johnson County four times a year for the Winter, Spring, Summer, and Fall issues. A ½ page informational advertisement was included in all four issues of the magazine. Advertisements focused on what homeowners can do to protect water quality, soil tests and how they can help homeowners protect water quality, and proper leaf and yard waste disposal.
	Events and Presentations	Activity and number of participants	Healthy Yards Expo: Cancelled due to COVID concerns
1.2	**ANNUAL PROGRAM REVIEW**	Revise as required	A new Stormwater Management Plan for 2021-2024 is being submitted with changes to the plan.

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

2. Public Involvement and Participation (Table) - Please fill out accordingly. List all of the public improvement and participation BMPs as identified in the SMP and provide the requested information in the following table. (List all associations and partnerships)

BMP NUMBER	BRIEF BMP DESCRIPTION	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
2.1	**PROMOTE COMMUNITY INVOLVEMENT IN STORMWATER QUALITY AWARENESS AND SOLUTIONS:** The JCSMP provided funding for: **FREE SOIL TESTING FOR RESIDENTS:** Educate residents that applying fertilizer without a current soil test can result in over application and excessive nutrient runoff.	Number of soil tests Education received with reports and through marketing efforts for free soil test opportunity.	Roeland Park- 3 tests Participants receive a custom report with recommended rates of application and proper timing. As well as a general stormwater quality awareness pamphlet educating homeowners on lawn and garden best management practices.
	HOMEOWNER BMP COST SHARE PROGRAM The JCSMP provides funding to cities to match up to 50% percent of practices that a resident can implement on their property to reduce the effects of stormwater. This program has allowed cities to encourage their residents to implement stormwater solutions at a lesser cost. Practices that are eligible for reimbursement include rain barrels, rain gardens, native plantings, native trees, and porous pavement.	Activity and number of participants	Native Tree Plantings – 4 residents Native Plantings – 3 residents Rain Barrels – 2 residents See appendix for type of activity and pictures
2.2	**MECHANISM FOR CITIZEN PARTICIPATION** Post annual reports and current stormwater management plan on website or other publicly available mechanism. Provide opportunity for the public to comment on the community's stormwater management plans and regulations.	Documents published in appropriate location Public review and comment allowed	Annual report and SMP is published on City's website. No comments for 2020
2.3	**COMPLY WITH PUBLIC NOTICE PROVISIONS** Comply with applicable state and local public notice requirements when developing and revising the Stormwater Management Plan and Stormwater regulations. Provide opportunity for public comment and provide feedback to public comment as required	Stormwater Management plans advertised when developed and as revisions are made. Comments addressed	Stormwater management plan will be updated on the webpage and will allow for public comment/ feedback. Feedback will be discussed and if changes to the plan are needed then the plan will be updated and submitted to KDHE.
2.4	**ANNUAL PROGRAM REVIEW**	As needed, note revisions in annual report and update SMP	N/A

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

3. Illicit Discharge Detection and Elimination

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

YES	NO	N/A	
☒	☐	☐	Has a program/plan been developed and is it presently implemented to detect and address illicit/prohibited discharges into the MS4?
☒	☐	☐	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?
☒	☐	☐	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? Effective date: 4/8/2006
☐	☒	☐	Have the ordinances, resolutions, or regulations been modified? Effective date: na

List all the Illicit Discharge Detection and Elimination 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)

3. Illicit Discharge Detection and Elimination (Table) - Please fill out accordingly

List all of the illicit discharge detection and elimination BMPs as identified in the SMP and provide the requested information in the following table.

BMP ID NUMBER	BRIEF BMP DESCRIPTION	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
3.1	**POLLUTION PREVENTION ORDINANCE** Review and update the Stormwater Pollution Prevention Ordinance and enforcement procedures as needed	Review Ordinance and provide and necessary updates.	None required
3.2	**POLLUTION PREVENTION HOTLINE** Maintain phone hotline and online mechanism for reporting illicit discharges; conduct investigations and/or forward to appropriate cities/agencies	Provided on the City Website	Yes
3.3	**IMPLEMENT A PLAN TO DETECT AND ADDRESS ILLICIT DISCHARGES** Implement plan to detect, identify the source, and eliminate non-stormwater discharges to the MS4, including passing regulations prohibiting non-stormwater discharges to the MS4.	Plans Implemented Actions Documented	Yes No actions required
	Conduct training for appropriate City staff on detecting and reporting illicit discharges.	Annual training to Public Works staff	See BMP 6.2
3.4	**STORM SEWER NETWORK AND OUTFALL MAPPING** Maintain updated map of MS4 showing storm sewer outfalls and names and location of all waters of the US that receive discharges from outfall.	Map updated and submitted to KDHE	Yes, attached to new SMP
3.5	**HOUSEHOLD HAZARDOUS WASTE (HHW) PROGRAM** **HHW Collection:** The JCSMP provided supplemental financial assistance to the Johnson County Department of Health and Environment and the City of Olathe's existing HHW Collection programs. This funding allowed for an increase in drop-off appointments at both facilities that would not have otherwise been possible. (These numbers represent the previous year's annual reporting numbers for the HHW sites which is on the State of Kansas's fiscal year of July 1-June 30)	# of residents served Pounds of Hazardous Material collected	15,776 participants county-wide 1,357,639 pounds of hazardous waste collected and managed properly
3.6	**ANNUAL PROGRAM REVIEW**	As needed, note revisions in annual report and update SMP	N/A

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

4. Construction Site Stormwater Runoff Control

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

YES	NO	N/A	
☒	☐	☐	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? Effective date: 9/4/2007
☒	☐	☐	Has a copy of the ordinances or resolutions been submitted to KDHE as required by the permit?
☒	☐	☐	Has a procedure or program been developed requiring construction site owners and/or operators to implement appropriate erosion and sediment control best management practices?
☒	☐	☐	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 atconstruction sites likely to cause adverse impacts to water quality?
☒	☐	☐	Has a procedure been developed and implemented requiring site plan review which includes consideration of potential water quality impacts?
☒	☐	☐	Has a procedure been developed for the receipt and consideration of information submitted by the public?
☒	☐	☐	Has a procedure been developed and implemented forconstruction site inspection and enforcement of the control measures?

List all the construction site stormwater runoff control BMP's as identified in the SMP and provide the requested information in the following table.

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

4. Construction Site Stormwater Runoff Control (Table) - Please fill out accordingly

List all of the Site Stormwater Runoff Control BMP's as identified in the SMP and provide the requested information in the following table.

BMP ID NUMBER	BRIEF BMP DESCRIPTION	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
4.1	**REGULATIONS AND STANDARDS** Review and update Erosion and Sediment Control Ordinance adopted in 2007 as needed.	Review every 2 years and update as needed	Currently no updates to City ordinances
	Contractor Training: Provide education and informational resources for contractors licensed in Johnson County. This year the Johnson County Contractors Licensing Program offered the 8-hour the "ABCs of BMPs" class that instructs contractors on proper erosion and sediment control at construction sites. Attendees could opt to take an exam to become a "Johnson County Certified Inspector".	Number of individuals trained and certified.	118 attendees and 107 certified inspectors
4.2	**SITE PLAN REVIEW** Require an Erosion and Sediment Control Plan for any land disturbance activity equal to one acre or more.	# of ESC Plans reviewed	3 – R Park, Burger King and Sunflower
	Hold pre-construction meetings to clarify erosion and sediment control BMPs for site.	# of meetings	1 meeting (Burger King will be constructed next year and R Park is City job)
	Require submittal of state NOI for Stormwater Construction Runoff.	# of NOI's	2 submittals

BMP ID NUMBER	BRIEF BMP DESCRIPTION	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
4.3	**SITE INSPECTION AND ENFORCEMENT** Track construction site inspections, complaints, violations, and enforcement measures	# of inspections # of violations enforcement measures	1 Site Inspections (R Park) 0 Violations No enforcement measures required
4.4	**RECEIPT OF PUBLIC INFORMATION ON CONSTRUCTION SITE COMPLIANCE** Track information received from public	Summary of information received, and actions taken	None received from public in 2020
4.5	**ANNUAL PROGRAM REVIEW**	As needed, note revisions in annual report and update SMP (as required)	N/A

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

5. Post-Construction Site Stormwater Management in New Developmentand Redevelopment

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

YES	NO	N/A	
☒	☐	☐	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? Effective date: 9/4/2007
☒	☐	☐	Has a copy of the ordinances or resolutions been submitted to KDHE as required by the permit?
☒	☐	☐	Has a post-construction stormwater runoff program been implemented?
☒	☐	☐	Have post-construction sites been inspected?
☒	☐	☐	Are BMP's specified to minimize adverse water quality impacts?
☒	☐	☐	Have strategies been developed to include a combination of structural and/or non-structural BMP appropriate for the municipality?
☒	☐	☐	Have measures been implemented to ensure adequate long-term operation and maintenance of structural BMP's?

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)

5. Post - Construction Site Stormwater Runoff Control (Table) - Please fill out accordingly

List all of the post-construction site stormwater runoff BMPs as identified in the SMP's and provide the requested information in the following table.

BMP ID NUMBER	BRIEF BMP DESCRIPTION	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
5.1	**REGULATIONS AND STANDARDS** Review and update Erosion & Sediment Control Standards and Stormwater Management Ordinance #809	Review regulation and update as needed	No revision required
	Review and update Post Construction Stormwater Management design criteria.	Review design criteria and update as needed	No revision required
5.2.	**ESTABLISH PLAN REVIEW PROCEDURES** Review and update Post Construction Stormwater Management Plan Review Checklists.	Review and update annually	No revision required
5.3	**SITE PLAN REVIEW** Implement Post-Construction Stormwater Runoff Control Program: Implement program requiring control of stormwater runoff from new development and redevelopment projects that disturb greater than one acre of land, and requirements for long-term maintenance of structural controls. Required elements of this program include:		
	a) SITE PLAN REVIEW: Ensure site plans incorporate appropriate post-construction runoff controls designed according to previously adopted standards/design manual.	Plans Reviewed	2

BMP ID NUMBER	BRIEF BMP DESCRIPTION	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
5.4	b) FINAL CONSTRUCTION INSPECTION: Perform final inspection (or obtain certification from design engineer) to ensure that all post- construction runoff controls were installed according to plans and functioning as designed.	# of Construction Inspections	3 – R Park, 2020 Storm Maint, Sunflower,
5.5	c) TRACKING SYSTEM: Maintain database (or other system) to track location and contact information of responsible party for all structural post- construction runoff controls	Database Updated	Drainage improvements are considered public improvements and in most cases part of the performance/maintenance bond process. These are tracked through electronic permitting
5.4	d) LONG TERM MAINTENANCE: Implement an inspection and enforcement program to ensure adequate long-term maintenance of structural post-construction runoff controls	# of Maintenance Inspections # of Violations Enforcement Actions Documented	1 inspection 0 violations na
	ANNUAL PROGRAM REVIEW	As needed, note revisions in annual report and update SMP (as required)	N/A

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

6.Municipal Pollution Prevention/Housekeeping

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

YES	NO	N/A	
☒	☐	☐	The permit requires the permittee to enact a program to address pollution prevention/good housekeeping for Municipal Operations. Has such a program been enacted?

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

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

6. Municipal Pollution Prevention / Housekeeping (Table) - Please fill out accordingly

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

BMP ID NUMBER	BRIEF BMP DESCRIPTION	MEASURABLE GOAL(S)	PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)
6.1	**IMPLEMENT PRACTICES TO REDUCE POLLUTION FROM THE MUNICIPAL FACILITIES**		
	Design a comprehensive O&M pollutant reduction program.	Completion Date	SWPPP(s) completed Spring 2019 and is on File
	Implement a comprehensive O&M pollutant reduction program.	Facility Name/ Operation Date of last audit	The Public Works Facility Good Housekeeping and Pollution Prevention program continues to hold quarterly inspections and training. Documentation is kept at the facility.
6.2	**CONDUCT STAFF TRAINING** Design educational sessions to ensure staff is proficient in minimizing stormwater pollution from daily operations.	# of City attendees:	Training was provided to 7 PW staff employees "Stormwater Best Management Practices Training for Industrial and Commercial Facilities"
	ANNUAL PROGRAM REVIEW	As needed, note revisions in annual report and update SMP (as required)	N/A

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

a. **PHASE ONE OPERATORS ONLY**: Monitoring Industrial and High RiskRunoff

The permit requires the permittee to enact a program to addresspost-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	
☐	☐	☒	Has the permittee developed and maintained a list of the municipal industrial facilities contributing to the pollutant loading to the MS4?
☐	☐	☒	Have at least two municipal industrial facilities on the list had inspection and sampling conducted?
☐	☐	☒	If the answer to items 1 and 2 is "No," provide a statement. _____ _____ _____

F. 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).

Example map and table below—Please fill out map and table on page 26 and adjust as needed.

Local Site Name	*Farwell*	*Arsenal*
Local Site Identifier	*C1*	*C2*
Sample Location Description	*On the east side of this bridge is a pedestrian walkway where a rope and bucket are lowered to the middle of the river to obtain a sample.*	*From the bike path on the southeast end of the bridge a path extends down to the bank of the river. A 10 foot long sample pole with bucket at the end is used to reach out past littoral vegetation and obtain a sample.*
KDHE EDMR Code if Known	*Far2002C5*	*Arse1001C6*
Lat/Long Data Decimal & Degree Format		
Latitude	*42.367056°*	*42358910°*
Longitude	*-71.218089°*	*-71161087°*

No monitoring requirements listed in Roeland Park's MS4 Permit

Please fill out map and table below accordingly and review the example map and table on the previous page for reference.*Clearly label sites as upstream or downstream which are on the same stream/river.

Sample Site Information Tables

Local Site Name		
Local Site Identifier		
Sample Location Description		
KDHE EDMR Code if Known		
Lat/Long Data Decimal Degree Format (not degree-minutes-seconds)		
Latitude	°	°
Longitude	°	°

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.

Executive Summary Response

1. We believe that our efforts under public education (MCM 1) and public participation (MCM 2) that were focused on responsible lawn care practices and anti-littering were very successful at reaching a broad number of residents with messaging that hopefully will encourage behavior change or, at the very least, increase awareness. Other areas that were successful this past year included: Contain the Rain Cost Sharing Program – Participant size doubled from the previous reporting period; and our monthly y street sweeping routine.

2. In 2020, COVID-19 safety measures significantly impacted the outreach and training activities that were planned for the year. Other than a reduced participation and activities, we have to unsatisfactory results for the year.

3. Public education and outreach efforts through the multiple approaches from the City, county, and regional levels were successful. The ability to conduct outreach through multiple outlets will hopefully continue to increase the public's awareness of water quality issues and how they can help. Additionally, the partnership with K-State Extension promotes water quality messaging where surveys indicate the public seeks information regarding their lawn and garden care and therefore targeting a likely source for excess nutrients in urban streams.

4. Many planned outreach activities were cancelled or severely reduced due to COVID 19

restrictions.

5. There were no MS4 clean ups hosted in Roeland Park. The City usually collaborates with Johnson County Stormwater Management Program for volunteer events. The monthly street sweeping, and storm inlet cleaning prevented 1,286 cubic yards of debris entering the storm sewer system. Pet waste containers at 9 locations used 52,000 bags, an increase from the previous year. The leaf collection program collected 4,048 cubic yards of leaves (cost of $12,233)

6. Two Council members are a part of the Johnson County Stormwater Management Advisory (JCSMP) Committee where they typically attend 2 meetings. No meetings were attended in person due to the pandemic.

7. The City of Roeland Park partnered 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 permits. 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. No audit performed.

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 knowledgeand belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including thepossibility of fine and imprisonment for knowing violations."

Signature of Permittee: _____ **Date Signed** 2-26-2021
(Legally responsible person)

Name Printed: Donnie Scharff **Title** Public Works Director

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. Submit this report to:

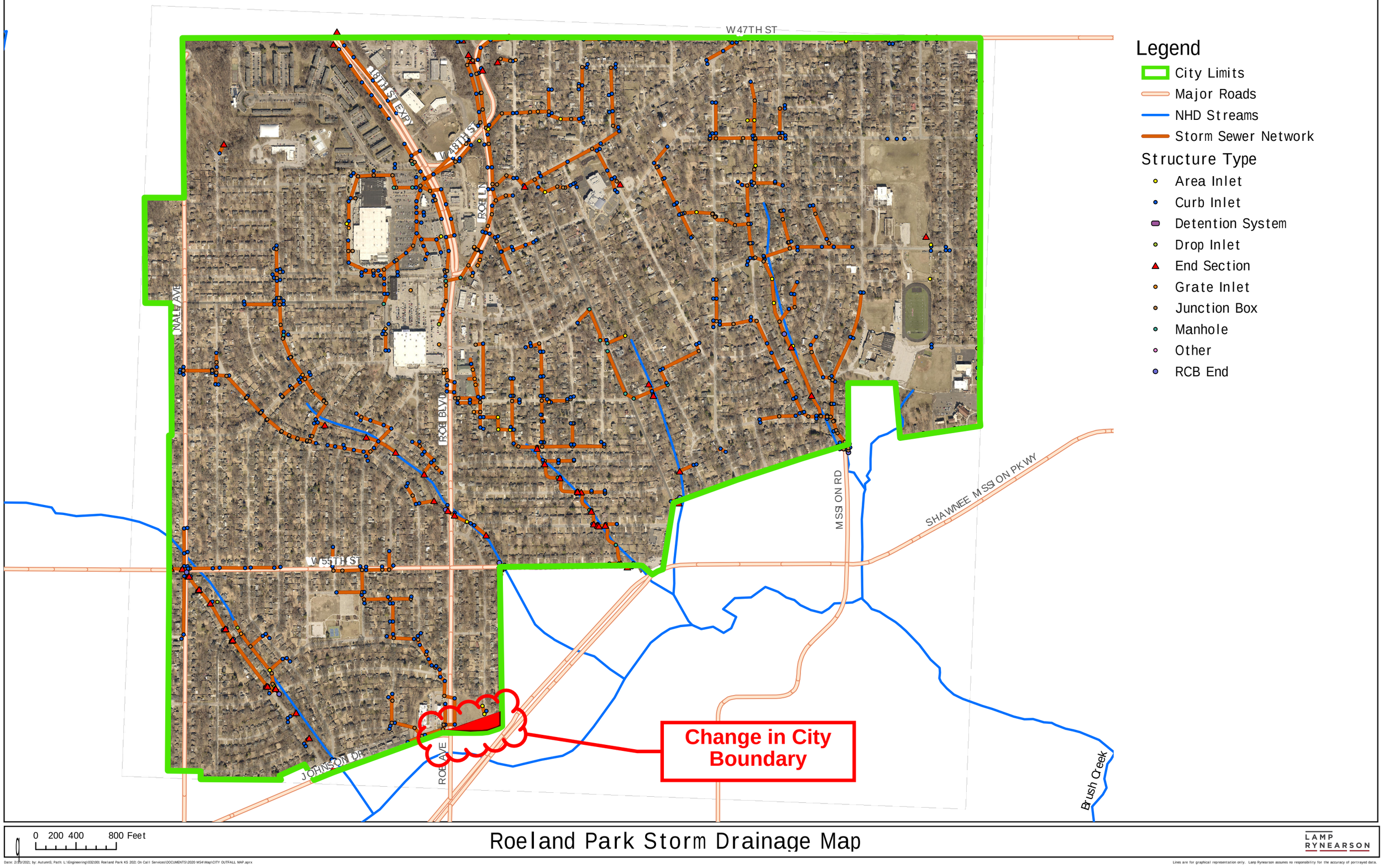
KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT

Municipal Programs Section

1000 SW Jackson Street, Suite 420

Topeka, Kansas 66612

SUPPORTING DATA



Roeland Park Storm Drainage Map

LAMP RYNEARSON

Date: 2/23/2021; by: AutumnS; Path: L:\Engineering\032100\ Roeland Park KS 2021 On Call Services\DOCUMENTS\2020 MS4\Map\CITY OUTFALL MAP.aprx

CONTAIN THE RAIN RECIPIENTS

Carol Foret.....1 Native tree planted Fire King, Hornbeam

Chris Carpenter.....1 Native plantings of various types

Diana Gallagher .....1 Native tree planting

Elizabeth Harner.....1 Rain Barrel installed on to backyard downspout

John Booth.....1 Native tree planting, Black Gum

Johanna Boswell-Duncan. .....1 Native tree, Green Gable Black Gum planted in the front yard

Kyle O'Brien .....1 Rain Barrel installed in to backyard

Linda Gardner .....2 Native tree plantings, Sugar Maple and October Glory

Caitlin Sprott.....1 Native tree planting

Total Reimbursement $741

CONTAIN THE RAIN 2020

Roeland Park, KS

CONTAIN THE RAIN 2020

Roeland Park, KS

ROELAND PARK est 1951

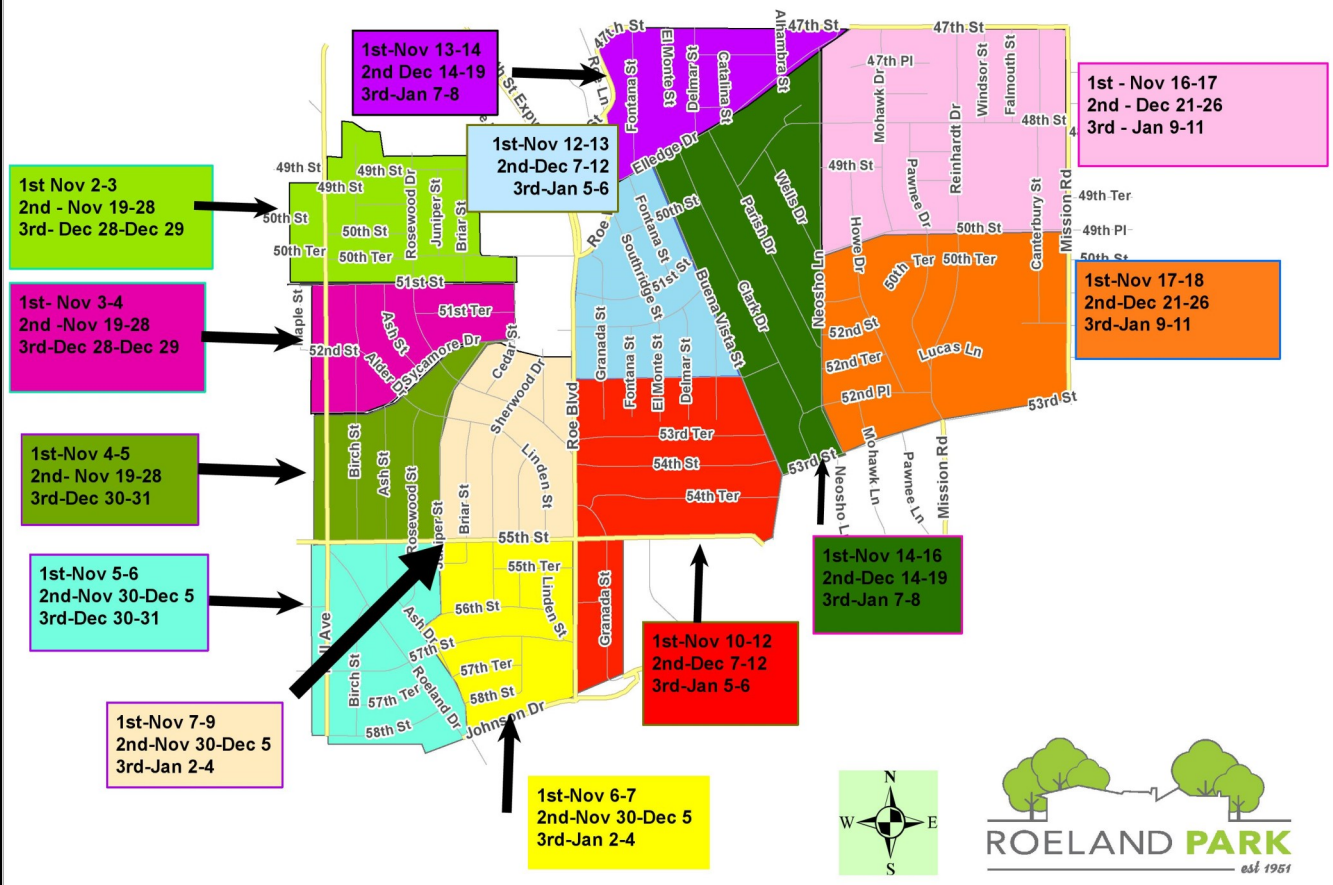
The ROELAND PARKER

Oct/Nov 2020

Leaf Collection Season is Upon Us

It is that time of year, again! Leaves will be changing gorgeous colors then fall everywhere, and Roeland Park is here to collect! The map below illustrates the 1st, 2nd, and 3rd dates for leaf collection. Here is what you need to know to get your leaves picked up by Roeland Park's leaf-collection vehicle:

Note - Staff will not provide leaf collection on Sunday's unless needed. Thank you



1. **Do Not rake leaves into the street**. Leaves should be in long piles behind the curb abutting the street. Leaves should be placed within 8 ft of the street or back of curb.
2. When sidewalks abut the curb, leave at least 3 ft of passable sidewalk space between the curb and leaf piles for pedestrians.
3. Keep leaf piles free of limbs and litter.
4. Keep leaves away from obstacles such as trash cans, mailboxes, cars and utility poles.
5. Do not park your car in front of leaves during collection hours of 7AM-5PM Monday-Friday and 7:30AM-3:30PM on Saturday. If your neighbor parks in front of your leaves, please reach out to them and kindly request they move their vehicle.
6. Place leaves behind the curb the day prior to collection.

Johnson County Stormwater Management Program NPDES MS4 Services Summary-- 2020

The Johnson County Stormwater Management Program (JCSMP) manages funds generated through a 1/10th of one percent sales tax collected throughout the entire County for the purposes of stormwater management. Every year, a percentage of these funds are dedicated to providing assistance to the cities within Johnson County who hold a NPDES MS4 permits. In particular, the JCSMP coordinates some efforts for best management practices for Minimum Control Measures (MCM) 1 and 2, but also assist with MCMs 3-6. This coordinated approach through this partnership has proven to be cost effective and reduces redundancy.

In 2020, COVID-19 safety measures significantly impacted the outreach and training activities that were planned for the year. In-school activities planned with Olathe North High School, Friends of the Kaw, Blue River Watershed Association, and Stone Lion Puppet Theater were greatly reduced or cancelled altogether. The annual "Healthy Yards Expo" also was cancelled in 2020 as well as rain garden and rain barrel instructional classes that are normally held during the spring and summer months.

Limited in-school activities did occur in the winter before all schools in Johnson County moved to virtual learning in March 2020. Additionally, stream-side activities were conducted in the fall where social distancing measures were practiced and the 'in-class' instruction section of the lessons was held virtually.

Public Education and Outreach: Minimum Control Measure 1

K-State Extension

Residential lawn and garden care practices can be a major contribution to nutrient and sediment pollution in urban stormwater runoff. The JCSMP has formed a partnership with Johnson County K-State Extension (KSE) because Johnson County residents recognize KSE, the KSE Master Gardeners and Master Naturalists, and Johnson County Extension Agent, Dennis Patton, as trusted resources for lawn and garden care guidance. The JCSMP works with Johnson County K-State Extension to conduct stormwater pollution prevention outreach in a variety of ways throughout the year.

Print Media

KSE publishes ads in the Johnson County Magazine, which is distributed four times per year (approximately by season) to approximately 260,000 residences and businesses in Johnson County. Ad graphics are included in Appendix A.

- Winter 2020: Advertisement for the Contain the Rain/BMP Cost Share programs. Most cities in Johnson County offer a cost-sharing program to their residents to encourage the use of rain barrels and rain gardens. The Contain the Rain website provides education on native plants, rain gardens, and native trees as well as direct links to the requirements and applications for every city.
- Spring 2020: Advertisement for the free soil test opportunities for Johnson County residents. The ad includes the benefits of a soil test as guidance for proper fertilization and water quality protection and an advertisement for the Healthy Yards Expo.

- Summer 2020: The summer edition of the Johnson County magazine featured an advertisement highlighting the various actions homeowners can take around their homes and yards to protect water quality.
- Fall 2020: Messaging focused on proper leaf and grass clipping management in the Fall 2020 edition.

Events

The Healthy Yards Expo is a lawn and garden event that promotes environmentally friendly lawn and garden practices. It is based on the K-State Extension "Healthy Yards and Communities" initiative and the event is a partnership between KSE, JCSMP, and the cities of Lenexa, Olathe, Overland Park, and Shawnee. The 11th annual Expo was to be held on April 3, 2020, but had to be cancelled because of COVID-19 concerns.

Soil tests

The JCSMP contracts with KSE to provide 1000 free soil tests to homeowners in Johnson County. In 2020, 469 residents county-wide received a free soil test (city specific numbers in Appendix B). A custom recommendation for soil amendments is provided with each soil test result as well as an informational flyer (Appendix B) that includes best practices for protecting water quality while caring for residential lawns and landscapes. COVID-19 restrictions also impacted the number of soil samples processed for 2020 as the Extension offices were closed for part of the year.

In-School Programming (PreK-8th grades)

In-school programming was severely impacted by COVID in 2020. The state-wide shut down of schools in the spring of 2020 prevented the majority of our planned programming to occur. Limited in-person attendance for students in the fall of 2020 as well as restrictions on assemblies and visitors to schools also impacted our planned programming in schools. However, Stone Lion Puppet Theater and Friends of the Kaw were able to accomplish limited outreach activities in 2020.

Stone Lion Puppet Theater

The JCSMP contracts with the Stone Lion Puppet Theater, a local non-profit theater, to present age-appropriate water quality messaging to the County's early elementary aged residents. In 2020, Stone Lion presented 10 puppet shows to approximately 2,205 children ranging in grades from Pre-Kindergarten to 6th grade. These shows occurred in January through March 2020 before schools closed in the spring due to COVID. Details including the school name, student's resident cities in attendance, and number of students reached are included in Appendix C.

Friends of the Kaw

The JCSMP contracts with the Friends of the Kaw to present water quality data collection and analyses to middle school aged students through their "Kids About Water" programming. Through this multi-day programming, students learn about watersheds and water quality indicators of stormwater pollution. The students visit streams to collect and analyze water samples and macroinvertebrate

populations. Then, the students determine the health of the stream and what actions can be taken to improve or protect water quality. In 2020, Friends of the Kaw presented to 13 classes, which totaled 285 students. Details including the school name, student's resident cities in attendance, and number of students reached are included in Appendix C.

Shawnee Mission School District (8th grade curriculum, Friends of the Kaw, and Blue River Watershed Association)

The JCSMP has partnered with the Shawnee Mission School District to provide a capstone field experience for middle school curriculum that teaches students about water quality and the impacts humans have on degraded water quality in the environment. This curriculum begins in the 6th grade and continues through 8thgrade, culminating in a field trip to collect water quality and macroinvertebrate samples to analyze the health of nearby streams. The Shawnee Mission School District spans 14 cities in Johnson County, all of which hold MS4 permits. The ultimate goal is to provide this experience to every 8th grade student in the five middle schools—Hocker Grove, Indian Hills, Indian Woods, Trailridge, and Westridge. Unfortunately, all planned field trips in the spring of 2020 were cancelled due to COVID. It is the intent of the JCSMP to continue this program in 2021 if possible.

Hillsdale Lake WRAPS/ Miami and Johnson County Conservation Districts

The JCSMP partners with the Hillsdale Lake Watershed Restoration and Protection Strategy (WRAPS) to provide watershed education and water quality sampling experiences to the middle school students at Spring Hill Middle School and advanced Zoology and Field Biology students at Gardner-Edgerton High School. Unfortunately, all activities associated with the Spring Hill and Gardner-Edgerton High School students were cancelled.

Public Participation and Involvement: Minimum Control Measure 2

Bridging the Gap

The JCSMP partners with Bridging the Gap to provide support to the cities' Homeowner Stormwater BMP Cost Share program. They have worked to create a brand of "Contain the Rain JOCO" and have developed a website www.containtherainjoco.com where homeowners have access to resources on native plants, trees, and rain barrels as well as a 'one-stop shop' for links to all the cities' programs within Johnson County.

Illicit Discharge Detection and Elimination: Minimum Control Measure 3

Household Hazardous Waste Collection Site Support

KDHE recognizes support of Household Hazardous Waste Collection as a method to deter illegal dumping of harmful materials into the MS4. The JCSMP provides supplemental financial assistance annually to the two household hazardous waste collection sites that operate in Johnson County.

The Johnson County Department of Health and Environment (JCDHE) operates a site in the city of Mission, in the northeast part of the County. Under normal operations, the JCDHE site accepts HHW from any County resident who makes an appointment, which are available only during regular business hours during the week. The supplemental funding allows for the JCDHE site to schedule appointments on Saturdays from April through September to allow for increased convenience to residents unable to schedule appointments during the week. JCDHE provides KDHE a fiscal year report that runs from July 1, 2019 through June 30, 2020, so those numbers are used for these reporting purposes. A total of 8,033 participants and 652,839 pounds of household hazardous waste was collected and managed properly (detailed report attached in Appendix D).

The city of Olathe also operates a household hazardous waste collection site that is more centrally located in the county. The Olathe HHW collection site normally would only accept household hazardous waste from Olathe residents. However, the supplemental funding provided by the JCSMP allows any Johnson County resident to drop off household hazardous waste at the Olathe site. The July 1, 2019 through June 30, 2020 annual report to KDHE for the city of Olathe HHW site reported 7,743 participants and a total of 704,800 pounds of household hazardous waste collected and managed properly (detailed report attached in Appendix D).

In 2020, a total of 15,776 Johnson County residents utilized both the HHW facilities to properly manage 1,357,630 pounds of hazardous waste.

Onsite Sewage Treatment Systems Program

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. The program also investigates complaints about malfunctioning on-site septic systems. There are approximately 9,000 private sewage treatment systems in Johnson County. The overall county totals are listed below and a detailed by number for each city is included in Table 1.

Table 1. 2020 Onsite Sewage Treatment Inspections by city.

	County Totals	Unincorporated	Shawnee	Lenexa	Olathe	Bonner Springs	Spring Hill	Merriam	Mission	Leawood	Prairie Village
Resale	**341**	216	65	18	36	0	2	1	3	0	0
Commerical Inspections	**307**	134	91	17	45	2	15	1	1	0	1
Soil Profile Analysis	**103**	58	17	4	14	0	9	1	0	0	0
Minor Repair	**124**	56	26	12	22	0	8	0	0	0	0
Septic Tank Decommissions	**40**	15	10	3	9	1	1	1	0	0	0
Installation Permits Issued	**152**	101	27	6	7	0	9	2	0	0	0
New Construction Permits	**57**	38	12	1	5	0	1	0	0	0	0
Major Repairs Permits	**95**	63	15	5	2	0	8	2	0	0	0

Construction Site Stormwater Runoff Control: Minimum Control Measure 4

Certified Erosion and Sediment Control Inspector training

The JCSMP works with the Johnson County Contractor Licensing Provide education and informational resources for contractors licensed in Johnson County. On October 26th and 29th, 2020, the Johnson County Contractors Licensing Program offered a virtual 4-hour class that provided training for contractors on proper erosion and sediment control at construction sites. Attendees could opt to take an exam at the end of the class to become a "Johnson County Certified Inspector". Approximately 118 individuals took the course and 107 individuals passed the certification exam.

Water Quality Sampling

The JCSMP will continue to support water quality monitoring across the County on behalf of the cities to meet regulatory monitoring requirements. Reporting requirements to KDHE are established in the Johnson County NPDES MS4 permit (M-KS52-SU02). The water quality monitoring approach focuses on entire watersheds, rather than municipal boundaries, in order to align with the watershed management goals of the Strategic Plan.

Monitoring Objectives:

- Evaluate MS4 discharge impacts to the receiving waters
- Investigate relative contribution of sources of specific pollutants causing designated use impairment, including nutrients, bacteria and sediment
- Gather data to inform program decisions and prioritization of future activities related to the protection of water quality.

The monitoring program consists of both rotating and fixed monitoring stations. Fixed monitoring and the rotational year's stations are monitored on scheduled, monthly basis from April-September regardless of rainfall. Additional wet weather samples are collected in the rotational basin only and 3 wet weather events after a 0.25" rainfall will be collected.

The Mill and Cedar Creek watersheds (watershed grouping 6) were the rotation watersheds in 2020. A map of monitoring stations is included in Appendix E. A separate Excel spreadsheet file "2020 MS4 Sampling Summary" with the 2020 sampling data will be provided with this report. A separate report "Johnson County SMP 2020 MS4 Water Quality Monitoring" by GBA and FYRA Engineering provides analysis of the results for 2020. This report is in review and will be provided as soon as it is finalized.

2020 Budget

2020 NPDES Services Budget		
MCM 1:		
*Johnson County K-State Extension	$ 32,560	
In School Education: Stone Lion Puppet Theater	$ 21,750	(continuation of 2019-2020 contract)
In School Education: Friends of the Kaw	$ 28,014	(continuation of 2019-2020 contract)
**In School Education: Blue River Watershed Association	~~$ 20,803~~	
Community and In-School Education: Hillsdale Lake WRAPS	$ 10,000	
MARC Water Quality Education Committee Membership	$ 45,000	
MCM 2:		
Bridging the Gap	$ 15,000	(Not to exceed-- dependant on number of applications)
**Olathe North High School	~~$ 14,700~~	
MCM 3:		
HHW Collection: Johnson County Health and Enviroment	$ 50,000	
HHW Collection: City of Olathe	$ 90,000	
MCM 4:		
Erosion Control Inspector class	$ 5,000	
Water Quality Sampling		
GBA: Sample collection and data analysis	$ 99,000	
JCW lab: Lab analysis	$ 20,000	
* K-State Extention's budget reflects a reduction after the Healthy Yards Expo was cancelled.		
** Budget totals with a "strikethrough" were planned, but cancelled contracts.		

APPENDIX A:

Johnson County Magazine Advertisements

Winter 2020

Spring 2020

Summer 2020

Winter 2020

APPENDIX B:

Soil tests numbers by city and Informational Insert

Soil test numbers by city and informational insert.

City	Fairway	Gardner	Lake Quiriva	Leawood	Lenexa	Merriam	Mission	Olathe	Overland Park	Prairie Village	Roeland Park	Shawnee	Westwood
Tests	13	4	2	26	43	6	18	112	157	31	3	34	1

APPENDIX C:

In-school education numbers by city

2020 In-School Activities					
Date	**School**	**Student resident cities**	Kids	# of shows/classes	Grades
Stone Lion Puppet Theater shows					
1/9/20	Pawnee Elem (SMSD)	Overland Park	200	1	K-2
1/15/20	Holy Trinity School	Lenexa	250	1	K-2
1/21/20	Indian Creek Elem (Olathe)	Olathe	375	2	K-6
2/9/20	Boy Scouts	Leawood	150	1	Elem
2/20/20	Brookwood Elem (SMSD)	Leawood, OP	220	1	PreK-2
2/21/20	Madison Elem (GE)	Gardner, Unicorporated	300	1	K-2
3/5/20	Hyman Brand Academy	Leawood, Lenexa, Mission, Olathe, OP, Prairie Village, Stilwell	160	1	K-5
3/10/20	Brookridge Elem (SMSD)	Overland Park	250	1	K-2
3/12/20	Shawanoe Elem (SMSD)	Shawnee, Lenexa	300	1	PreK-2nd
Friends of the Kaw-- Kids about Water classes					
Spring 2020	Bluejacket-Flint Elementary	Shawnee	75	3	6
Fall 2020	Monticello Trails Middle School	Shawnee	210	10	7

APPENDIX D:

Household Hazardous Waste Collection Reports for Johnson County Department of Health and Environment and the city of Olathe.

Kansas Household Hazardous Waste Program - Annual Report Form

for State Fiscal Year 2020 (July 1, 2019 to June 30, 2020)

Name of Facility: Johnson County, KS HHW Permit Number: 652H
County(ies) Served: Johnson
Facility Address: 5901 Jim Bills Road, Mission, KS 66203
Facility Contact: Trent Thompson Phone #: 913-715-6938 Fax #: email: trent.thompson2@jocogov.org

Waste Category DOT Class (Class description)	Name of Disposal Contractor for each Category	Conversion factors used to estimate amounts left in Storage	Wastes in STORAGE (includes all wastes left in storage at the close of the report period) pounds	Wastes DISTRIBUTED through a REUSE Waste Exchange program pounds	HAZARDOUS WASTES CONTRACTED or disposal at a cost: Recycled (HW) l.e. batteries pounds	Energy Recovery (HW) fuel sub. pounds	Treatment (HW) pounds	Landfilled (HW) pounds	Incineration (HW) pounds	Wastes not contracted as Hazardous Waste or disposal at no cost: Recycled l.e. batteries & refining of used oil pounds	Energy Recovery l.e. used oil, fuel substitutes pounds	Treatment and/or disposal through sanitary sewer pounds	Landfilled at Non HAZ MSW LF pounds	Total Pounds COLLECTED
1. NR (Bulk Latex Paint)	Self	12 pounds per gallon	6,500	104,772									217,600	328,872
2. NR (Bulk Used Oil)	Environmental Energy	8 pounds per gallon								25,400				25,400
3. Class 2, Div. 2.1 (Sorted Aerosols, Lab/Loose Pack)	Stericycle		900			16,683								17,583
4. Class 3 (Bulk Oil Based Paint)	Stericycle	12 pounds per gallon	3,200			98,889								102,089
5. Class 3 (Bulk Fuels/Fuel Blends)	Stericycle	8 pounds per gallon	530			21,433			435					22,398
6. Class 4, Div. 4.1 (Flammable Solids)	Stericycle	When determining weights of LAB PACKS in Storage don't forget to subtract the drum weight and the absorbent material, to report the NET WEIGHT, or the amount of the wastes collected and managed.	10						42					52
7. Class 4, Div. 4.2 (Spontaneously Combustible)	Stericycle		5						21					26
8. Class 4, Div. 4.3 (Dangerous When Wet)	Stericycle		5						23					28
9. Class 5, Div. 5.1 (Oxidizers)	Stericycle		30						958					988
10. Class 5, Div. 5.2 (Organic Peroxides)	Stericycle		5						15					20
11. Class 6, Div. 6.1 (Poisons)	Stericycle		1,800						25,036					26,836
12. Class 6, Div. 6.1 (Dioxins)	N/A		385											385
13. Class 8 (Corrosives, Acids and Bases)	Stericycle		300				7,383		1,514					9,197
14. Class 8 (Batteries - Lead Acid)	Best Battery	Car batteries, at 30 pounds each	500							9,999				10,499
15. Class 8 (Sorted Batteries)	Battery Solutions	For all other batteries report actual weight	1,500							1,958				3,458
16. Class 8 (Batteries - Lithium)	Best Battery		25							528				553
17. NR (Antifreeze)	Heritage Crystal Clean		250							10,125				10,375
18. NR (Non-Hazardous) Reuse Items	Self			85,312										85,312
19. Mercury	Stericycle				681									681
20. Fluorescent Bulbs	A Tech		150							2,338				2,488
21. Electronic Waste	N/A													0
22. Pharmaceuticals / Sharps	N/A	Please note conversion factor used to estimate amounts left in storage, if applicable.												0
23. Propane			100							1,823				1,923
24. Other: Cooking Oil	Darling									1,001				1,001
25. Other:														0
26. Other: Fire Extinguishers	Keller									1,830				1,830
27. Other: PCB's	Clean Harbors							281						281
28. Oxidizers	Clean Harbors								370					370
24. Other: Isocyanates	Stericycle								194					194
Total Pounds Managed:			16,195	190,084	681	137,005	7,383	281	28,608	55,002	0	0	217,600	652,839

Additional Program summary results:

Annual Operational Costs for the year (July 1, 2019 - June 30, 2020):

A. Disposal Cost	$ 128,384.00	E. Public Education/Advertising:	$ 228.00
B. Salaries:	$ 208,848.00	F. Physicals:	$ -
C. Equipment/Supplies:	$ 12,463.00	G. Training:	$ -
D. Overhead (Admin & Util):	$ 7,500.00	H. Other:	$ -
		TOTAL ANNUAL OPERATIONAL COSTS:	$ 357,423.00

Total Cost per Participant:	$ 44.49
Total Disposal Cost per Participant:	$ 15.98
Average Pound per Participant:	81.27
Cost to manage per Pound:	$ 0.55
Average Disposal Cost per Pound:	$ 0.74

Percent Managed through Waste Exchange Program:	29.12%
Percent Contracted for Hazardous Waste disposal:	26.65%
Percent Managed through Other means:	41.76%
Percent in Storage as of report date:	2.48%

How many operating days was your HHW facility closed due to COVID-19? 0

Total Number of Participants for the year (July 1, 2019 - June 30, 2020): **8,033**

Kansas Household Hazardous Waste Program - Annual Report Form

for State Fiscal Year 2020 (July 1, 2019 to June 30, 2020)

Name of Facility: City of Olathe HHW Permit Number: 849

County(ies) Served: Johnson

Facility Address: 1420 S. Robinson st. Olathe, Ks. 66061

Facility Contact: Steve Davis Phone #: 913-971-9015 Fax #: email: sdavis@olatheks.org

Waste Category DOT Class (Class description)	Name of Disposal Contractor for each Category	Conversion factors used to estimate amounts left in Storage	Wastes in STORAGE (includes all wastes left in storage at the close of the report period) pounds	Wastes DISTRIBUTED through a REUSE Waste Exchange program pounds	HAZARDOUS WASTES CONTRACTED or disposal at a cost					Wastes not contracted as Hazardous Waste or disposal at no cost				Total Pounds COLLECTED
					Recycled (HW) I.e. batteries pounds	Energy Recovery (HW) fuel sub. pounds	Treatment (HW) pounds	Landfilled (HW) pounds	Incineration (HW) pounds	Recycled I.e. batteries & refining of used oil pounds	Energy Recovery I.e. used oil, fuel substitutes pounds	Treatment and/or disposal through sanitary sewer pounds	Landfilled at Non HAZ MSW LF pounds	
1. NR (Bulk Latex Paint)	City of Olathe	12 pounds per gallon	2,820	34,209									375,600	412,629
2. NR (Bulk Used Oil)	GFL environmental	8 pounds per gallon	2,000	593	28,800									31,393
3. Class 2, Div. 2.1 (Sorted Aerosols, Lab/Loose Pack)	Heritage environmental		700	8,619		7,912								17,231
4. Class 3 (Bulk Oil Based Paint)	Heritage environmental	12 pounds per gallon	50	1,889		57,021								58,960
5. Class 3 (Bulk Fuels/Fuel Blends)	Heritage environmental	8 pounds per gallon		1,379		6,210								7,589
6. Class 4, Div. 4.1 (Flammable Solids)	Heritage environmental	When determining weights of LAB PACKS in Storage don't forget to subtract the drum weight and the absorbent material, to report the NET WEIGHT, or the amount of the wastes collected and managed.		97										97
7. Class 4, Div. 4.2 (Spontaneously Combustible)	Heritage environmental													0
8. Class 4, Div. 4.3 (Dangerous When Wet)	Heritage environmental													0
9. Class 5, Div. 5.1 (Oxidizers)	Heritage environmental			1,539			333		31					1,903
10. Class 5, Div. 5.2 (Organic Peroxides)	Heritage environmental													0
11. Class 6, Div. 6.1 (Poisons)	Heritage environmental		100	7,969					23,836					31,905
12. Class 6, Div. 6.1 (Dioxins)	Heritage environmental													0
13. Class 8 (Corrosives, Acids and Bases)	Heritage environmental			1,991			6,961		703					9,655
14. Class 8 (Batteries - Lead Acid)	Best Batteries	Car batteries, at 30 pounds each		1,500	9,159									10,659
15. Class 8 (Sorted Batteries)	Best Batteries	For all other batteries report actual weight		60	360									420
16. Class 8 (Batteries - Lithium)	Best Batteries			120	200									320
17. NR (Antifreeze)	GFL environmental	Please note conversion factor used to estimate amounts left in storage, if applicable.		200						5,080				5,280
18. NR (Non-Hazardous)	Heritage environmental			342										342
19. Mercury	Heritage environmental													0
20. Fluorescent Bulbs	Heritage environmental			20						2,056				2,076
21. Electronic Waste	Secure ecycle				112,459									112,459
22. Pharmaceuticals / Sharps														
23. Other: Cooking Oil	Darpro										1,882			1,882
Total Pounds Managed:			5,670	60,527	150,978	71,143	7,294	0	24,570	7,136	1,882	0	375,600	704,800

Additional Program summary results:

Annual Operational Costs for the year (July 1, 2019 - June 30, 2020):

A. Disposal Cost	$ 117,639.45	E. Public Education/Advertising:	$ -
B. Salaries:	$ 167,769.00	F. Physicals:	$ -
C. Equipment/Supplies:	$ 21,016.41	G. Training:	$ 1,760.59
D. Overhead (Admin & Util):	$ 2,500.00	H. Other:	$ -
	TOTAL ANNUAL OPERATIONAL COSTS:		$ 310,685.45

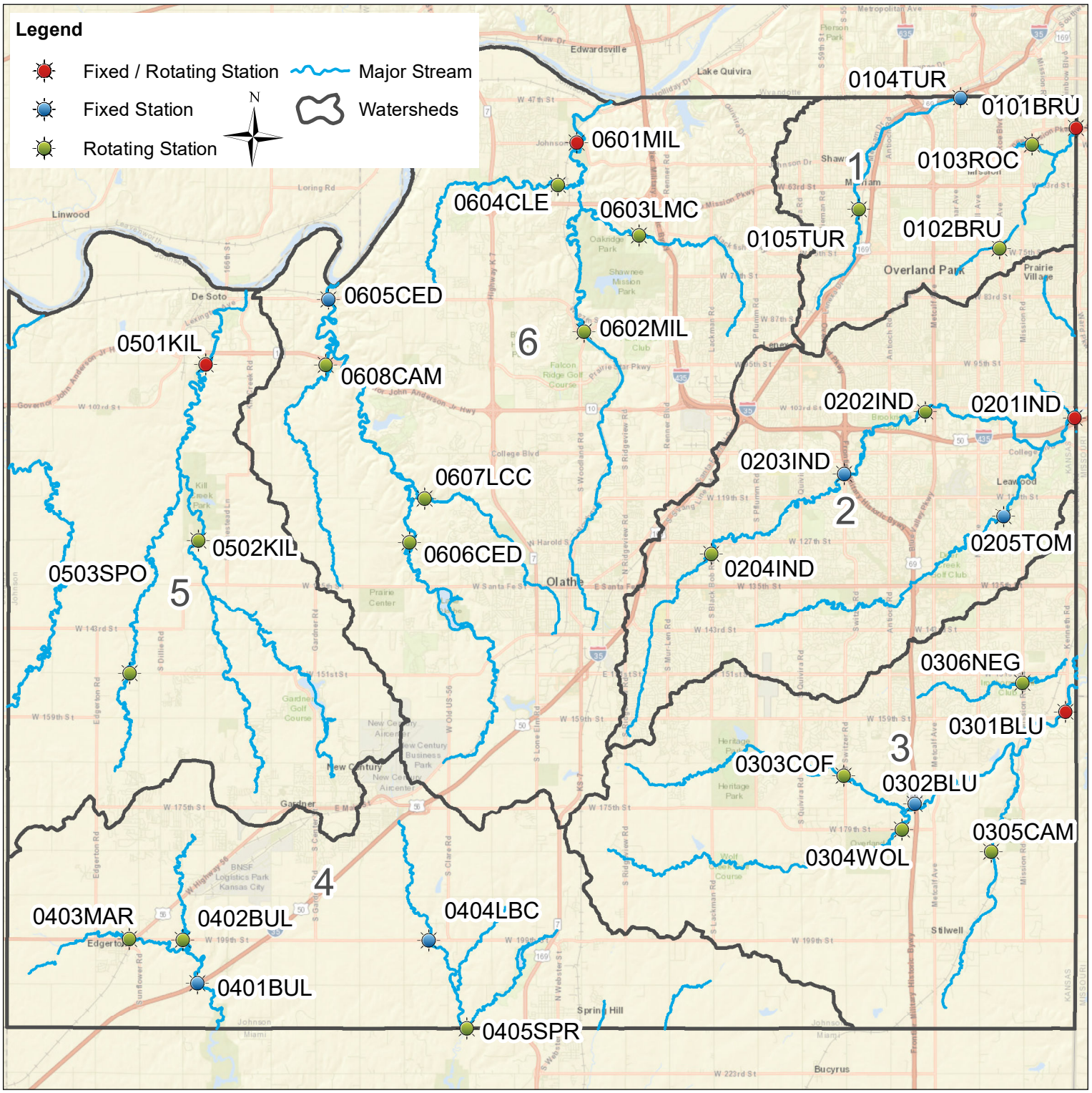
Total Cost per Participant:	$ 40.12	Percent Managed through Waste Exchange Program:	8.59%
Total Disposal Cost per Participant:	$ 15.19	Percent Contracted for Hazardous Waste disposal:	36.04%
Average Pound per Participant:	91.02	Percent Managed through Other means:	54.57%
Cost to manage per Pound:	$ 0.44	Percent in Storage as of report date:	0.80%
Average Disposal Cost per Pound:	$ 0.46		

How many operating days was your HHW facility closed due to COVID-19? 28

Total Number of Participants for the year (July 1, 2019 - June 30, 2020): **7,743**

APPENDIX E:

Water Quality Monitoring Location Map



Kansas Permit Number: M-KS52-SU02

Federal Permit Number: KSR410007

1 inch = 16,417 feet

GBA	PROJECT NUMBER 14256.00 DATE 11/14/2019	LOCATION MAP KDHE MS4 Permit Water Quality Monitoring October 1, 2019 through September 30, 2024 Johnson County, Kansas	FIGURE 1