



# **Stormwater Management Plan**

Kansas Permit # M-AR43-SU01

Federal Permit # KSR410006

April 1, 2024



## **Executive Summary**

The purpose of this Stormwater Management Plan (SMP) is to guide the City of Haysville in planning, funding, and implementing a comprehensive program for addressing current and future regulatory and policy requirements for managing stormwater runoff, water quality, flooding problems, and natural resources.

The Public Works Department is responsible for Surface Water Management and the National Pollutant Discharge Elimination System (NPDES) implementation. In addition, the Community Development Department, City Clerk/Public Information Officer, and Finance Department will be involved in implementing the planned best management practices (BMPs). These BMPs will be implemented to respond to regulatory requirements, the need for public services and safety, and the City's commitment to protect and improve the quality of its natural resources and environment.

To comply with regulations set forth by the Kansas Department of Health and Environment (KDHE), the City is required to attain a point threshold each year. These points are acquired by establishing and maintaining BMPs to comply with the minimum control measures (MCMs) of the city's Municipal Separate Storm Sewer System (MS4) permit.

This Stormwater Management Plan will remain an evolving document.



## Table of Contents

List of Abbreviations .....	iv
1. Public Education and Outreach.....	1
2. Public Involvement and Participation .....	3
3. Illicit Discharge Detection and Elimination .....	5
4. Construction Site Stormwater Runoff Control .....	7
5. Post-Construction Stormwater Management in New Development and Redevelopment Projects .....	10
6. Pollution Prevention/Good Housekeeping for Municipal Operations .....	12
7. Total Maximum Daily Load Regulated Pollutants .....	14



## List of Abbreviations

BMP	Best Management Practice
GIS	Geographic Information System
HHW	Household Hazardous Waste
KDHE	Kansas Department of Health and Environment
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
SESC	Soil Erosion and Sediment Control
SMP	Stormwater Management Plan
TMDL	Total Maximum Daily Load

## 1. Public Education and Outreach

This MCM consists of implementing a public education program. This includes the distribution of educational materials to the community, conducting outreach activities to address the impacts of stormwater discharges on water bodies, and the steps the public can take to reduce pollutants in stormwater runoff. The implementation of BMPs for this MCM must result in accumulation of at least 7 points beginning in 2024.

BMP Summary	Measurable Goal	Implementation Schedule + Responsible Staff	Points			
			2024	2025	2026	2027
01 - Maintain a stormwater webpage.	Maintain the webpage with up-to-date information with all links effective and providing valid information throughout the year. All links need to be checked, and the website updated on a minimum monthly basis. Document monthly checks in logbook and indicate changes with logged summaries.	Implemented in August of 2022 and continued.  Stormwater Coordinator for the City of Haysville.	2	2	2	2
02 - Distribute educational materials.	A brochure called “Use Lawn Chemicals Wisely” was added to the website for citizens to download.  A brochure created by the City of Haysville about the storm water utility was made available on the website for download.	Public Works staff of the City of Haysville.	2	2	2	2
03 - Provide educational materials to 3 businesses at high risk of polluting stormwater.	A brochure called “After the Storm” was added to the website for citizens to download.  A brochure created by the City of Haysville about the storm water utility was made available on the website for download.	Public Works staff of the City of Haysville.	2	2	2	2
04 – Apply notification on stormwater inlets to provide a message similar to “No Dumping – Drains to River.”	The city has a standard design for all new storm sewer manhole covers that are installed in the city and uses the same standard when replacing aging manholes and storm inlets.  Apply this notification on at least 10% of all known stormwater inlets in the MS4, or in subsequent years with an additional 5%.	Public Works staff of the City of Haysville.	2	2	2	2



## Haysville, KS: Stormwater Management Plan

07 – Provide educational materials to 4 groups of businesses.	<p>A brochure called “After the Storm” was added to the website for citizens to download.</p> <p>A brochure created by the City of Haysville about the storm water utility was made available on the website for download.</p>	Public Works staff of the City of Haysville.	3	3	3	3
08 – Provide stormwater education for students at a school campus for K-12.	The City of Haysville has an educational outreach program geared toward students of the USD 261 Alternative High School.	Public Works staff of the City of Haysville.	3	3	3	3
12 – Create a stormwater information brochure to provide to the public at public meetings and/or hearings.	<p>Have brochures available to the public during at least 10 meetings/hearings.</p> <p>Stormwater brochures are kept out in the City Hall lobby for public access year-round. There are a minimum of 12 council meetings annually.</p>	Public Works staff of the City of Haysville.	1	1	1	1
14 – Hold a media campaign addressing pertinent stormwater education topics.	<p>Informational slides about stormwater run on Channel 7.</p> <p>A video titled “After the Storm” was shown on Channel 7 routinely for several months.</p> <p>A video produced by Channel 7 routinely runs on Channel 7 during the spring and summer months.</p>	Public Works staff of the City of Haysville and Channel 7.	2	2	2	2
		Points Required:	7	7	7	7
		Points Expected:	17	17	17	17



## 2. Public Involvement and Participation

This MCM consists of implementing a public involvement and participation program to solicit public comment and recommendations regarding the BMPs and measurable goals utilized by the City to comply with the permit. The City will comply with State and local public notice requirements when implementing a public involvement and participation program. The implementation of BMPs for this MCM must result in accumulation of at least 6 points beginning in 2024.

BMP Summary	Measurable Goal	Implementation Schedule + Responsible Staff	Points			
			2024	2025	2026	2027
03 – Hold park or stream bank clean-up events for public volunteers to aid municipal staff in removing trash, debris, or pollutant sources from the selected clean-up area.	<p>Clean an area which must be equal to or greater than one acre or alternately at least 200 yards of streambank.</p> <p>At least one such clean-up activity must occur in the year for which points are claimed.</p> <p>USD 261 Campus High School Baseball Programs in Spring Cleanup Work session assisting in Park and Drainage Cleanup.</p>	Stormwater Coordinator for the City of Haysville.	3	3	3	3
05 – Provide at least two events for residents to engage in cleanup activities and improve water quality in the municipality.	Biannual Drainage Area Cleanup with the help of USD 261 Haysville Alternative High School Students.	Stormwater Coordinator for the City of Haysville.	3	3	3	3
07 – Enact an ordinance that requires pet owners to immediately and properly dispose of their pet's solid waste.	<p>The ordinance shall be enacted and signs posted informing the public of their obligation at the park.</p> <p>Haysville, Kansas, Animal Control &amp; Regulations Code – 2-204.</p> <p>Multiple pet waste stations located throughout the city.</p>	Public Works staff of the City of Haysville.	1	1	1	1



## Haysville, KS: Stormwater Management Plan

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09 – Distribute stormwater educational materials to the public within this permit area.	A brochure called “Use Lawn Chemicals Wisely” was added to the website for citizens to download.	Public Works staff of the City of Haysville.	1	1	1	1
		Points Required:	6	6	6	6
		Points Expected:	8	8	8	8





### 3. Illicit Discharge Detection and Elimination

This MCM consists of developing, implementing, and enforcing a program to detect and eliminate illicit wastewater discharges or other non-stormwater discharges into the storm sewer system. The implementation of BMPs for this MCM must result in accumulation of at least 7 points beginning in 2024.

BMP Summary	Measurable Goal	Implementation Schedule + Responsible Staff	Points			
			2024	2025	2026	2027
03 – Develop a spill response plan and coordinate emergency response with other agencies and organizations.	<p>The plan shall include explanation of appropriate spill response activities for spills. The written plan shall be maintained on file.</p> <p>The city manages a spill response program that includes all field staff and contracted Police and Fire Departments.</p>	Public Works staff of the City of Haysville.	2	2	2	2
07 – Implement a Household Hazardous Waste Collection program or document others that have implemented such a program to provide such service to all property owners or residents located within Haysville’s permit area.	<p>Document the residents and property owners within Haysville’s MS4 permit area were able to dispose of such wastes at the HHW during a calendar year.</p> <p>The city accepts used motor oil year-round and hosts a HHW event at City Hall annually.</p>	Public Works staff of the City of Haysville.	3	3	3	3
08 – Implement a program to increase the reliability of sanitary sewer pump stations above the minimum standard design requirements.	<p>Upgrade lift stations to meet the minimum reliability standards.</p> <p>Both the Main Pump Station and Southbrooke lift station have been upgraded to meet the minimum reliability standard.</p>	Public Works staff of the City of Haysville.	8	8	8	8
		Points Required:	7	7	7	7



## Haysville, KS: Stormwater Management Plan

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		<b>Points Expected:</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>
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#### 4. Construction Site Stormwater Runoff Control

This MCM includes developing, implementing, and enforcing a program to reduce pollutants in any stormwater runoff to the MS4 for construction sites disturbing one acre or more, including areas that are less than one acre but are part of a larger common plan for development that disturbs one or more acre. The implementation of BMPs for this MCM must result in accumulation of at least 6 points beginning in 2024.

BMP Summary	Measurable Goals	Implementation Schedule + Responsible Staff	Points			
			2024	2025	2026	2027
01 – Require Soil Erosion and Sediment Control (SESC) Plan for any land disturbance sites which are either equal to or greater than 1 acre or 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.	<p>Enact ordinance, or other enforceable measure that requires an SESC Plan for all developments disturbing sites which either equal to or greater than 1 acre or for which there is construction activity disturbing less than one acres which is part of a larger common plan of development or sale that in total disturbs one acre or more.</p> <p>Haysville, Kansas, Utilities Code: Chapter 15, Article 8 was adopted July 27, 2007.</p>	Public Works Director for the City of Haysville.	2	2	2	2
02 – Develop and adopt a design manual for erosion and sediment control BMPs which are required to be used on sites which will be disturbed and are either equal to or greater than 1 acre or for which there is construction activity	<p>Require implementation of BMPs in compliance with the design manual on all sites which meet the disturbed area standard as specified in the “BMP Summary.”</p> <p>Adopt the Sedgwick Co Stormwater Manual with addendums.</p>	<p>Adopt in 2024 and continue enforcement.</p> <p>Director of Public Works and Stormwater Coordinator for the City of Haysville.</p>	3	2	2	2



## Haysville, KS: Stormwater Management Plan

disturbing less than one acres which is part of a larger common plan of development or sale that in total disturbs one acre or more.						
04 – Develop a site plan review process which considers potential water quality impacts which may occur during construction as well as post construction impacts.	<p>Review process must have written guidance for the reviewer. Issuance of a building permit or approval to start construction may not be provided until the site plan has successfully passed the review process either based on the initial site plan submittal or has been modified to comply with requirements identified during the review process.</p> <p>Haysville, Kansas, Utilities Code; Chapter 15, Article 8 was adopted July 27, 2007.</p>	Public Works staff of the City of Haysville.	2	2	2	2
05- Require construction sites to control wastes. Develop ordinance or other enforceable means to require construction site operators or owners to control wastes. At a minimum, control shall be imposed to prevent entry into the MS4 for discarded building materials, concrete, truck washout, chemicals, litter, and sanitary waste.	<p>Enact ordinance or other effective means to achieve control of wastes at construction sites.</p> <p>Haysville, Kansas, Utilities Code; Chapter 15, Article 8 was adopted July 27, 2007.</p>	<p>Implemented within Municipal Code</p> <p>Stormwater Coordinator for the City of Haysville.</p>	2	2	2	2



## Haysville, KS: Stormwater Management Plan

07- Develop software tracking system to track inspections and related tasks.	The city operates a GIS-based system that allows tracking of inspections as well as a multitude of other functions for City staff. The city employs a full-time, on-site, GIS administrator to oversee the system.	Stormwater Coordinator for the City of Haysville.	1	1	1	1
		Points Required:	6	6	6	6
		Points Expected:	10	9	9	9



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

This MCM includes the implementation and enforcement of 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 or sale, that discharge into the MS4. The implementation of BMPs for this MCM must result in accumulation of at least 7 points beginning in 2024.

BMP Summary	Measurable Goal	Implementation Schedule + Responsible Staff	Points			
			2024	2025	2026	2027
01 – Develop and adopt a custom design manual for Post-Construction Stormwater Management which specifies various structural BMPs which are required for new development and redevelopment construction sites which are greater than 1 acre of for which is part of a larger common plan of development or sale that in total disturbs one acre or more.	<p>As an alternative to a custom design manual the Sedgwick Co Stormwater Manual will be adopted and implemented.</p> <p>Measure must be included to enforce the installation of the various structural BMPs required.</p>	<p>Implement in 2024 and continue.</p> <p>Director of Public Works and Stormwater Coordinator for the City of Haysville.</p> <p>Points: 4 in the 1<sup>st</sup> year, and 3 in years thereafter.</p>	4	3	3	3
02 – Develop a list of post-construction structural or non-structural BMPs which are required to be incorporated in any development/re-development project.	<p>Development and implementation of the list and guidance is necessary to claim points in the first year. The list of required BMPs must be enforceable through ordinance or other means.</p> <p>Haysville, Kansas, Utilities Code; Chapter 15, Article 8 outlines design criteria for all new developments.</p>	<p>Director of Public Works and Stormwater Coordinator for the City of Haysville.</p>	2	2	2	2



## Haysville, KS: Stormwater Management Plan

03 – 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.	<p>The program shall be detailed in a written document and made available to all pertinent maintenance staff.</p> <p>City staff operates and maintains several BMPs including detention and retention ponds, pervious paving, etc.</p>	Public Works staff of the City of Haysville.	2	2	2	2
05 – 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>The program shall require inspection of at least 10% of the structural BMPs on an annual basis.</p> <p>Wastewater staff inspect and clean known problem areas in advance of rain events to ensure reliability as well as performing routine inspections of other city owned BMPs (i.e., ditches, ponds, etc.).</p>	Director of Public Works and Public Works staff of the City of Haysville.	2	2	2	2
		Points Required:	7	7	7	7
		Points Expected:	10	9	9	9



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

In this MCM, the city will 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. The implementation of BMPs for this MCM must result in accumulation of at least 6 points beginning in 2024.

BMP Summary	Measurable Goal	Implementation Schedule + Responsible Staff	Points			
			2024	2025	2026	2027
05 – Implement a program for street sweeping in which the street sweepings are collected and disposed of properly or recycled/reused if possible.	<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>At least 10% of the streets which are listed in the street sweeping schedule must be swept at least once in a year to claim points for the year. If equipment is purchased, more points may be claimed.</p> <p>The city continues to pay close attention to street cleanliness since 2004. A new machine was purchased in 2017.</p>	Public Works staff of the City of Haysville.	2	2	2	2
08 – Develop, implement and keep updated an online storm sewer map accessible to the public.	<p>Map shall cover the entire MS4 within Haysville’s permit area and include all the MS4 lines both pipe and open drainage. Also, the map shall illustrate all impaired waterways (i.e., 303(d) listed) with an indication of the listed impairment.</p> <p>The city website contains a current GIS map of storm sewer infrastructure.</p>	Stormwater Coordinator for the City of Haysville.	2	2	2	2
11 – Install a canopy or other covered area for load-out of salt or other de-icing chemicals.	The canopy or covered area shall be large enough to allow normal load-out and cleanup of spilled de-icing materials, without mixing with precipitation and contaminating surface runoff from site.	Director of Public Works of the City of Haysville.	2	2	2	2





## Haysville, KS: Stormwater Management Plan

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	There is a covered concrete pad located at the Public Works facility for storage of rock salt and sand.					
		Points Required:	6	6	6	6
		Points Expected:	6	6	6	6



## 7. Total Maximum Daily Load Regulated Pollutants

**Background:** Total Maximum Daily Loads (TMDLs) are established for waters found on the Clean Water Act Section 303(d) list of impaired waters. The purpose of the TMDL is to define the allowable pollutant load that may enter those impaired waters so that those waters attain a condition that fully supports all its designated uses. The TMDL then allocates portions of that allowable load among the likely point and non-point sources discharging the pollutant into the water or its watershed.

The city is required to implement BMPs to reduce to the maximum extent possible the discharge of TMDL regulated pollutants from the MS4 to impaired waters. Total Maximum Daily Load (TMDL) regulated pollutants identified in the current permit are listed below:

TMDL Regulated Pollutant	Specific Impaired Stream or Lake to Target
Bacteria	Cowskin Creek
Nutrients	Cowskin Creek
Sediment	Cowskin Creek

**Selection of BMPs:** All of the tasks associated with the Six MCMs are designed to reduce pollutants in stormwater runoff. The implementations of these BMPs must result in accumulation of at least 6 points beginning in 2024. Selected BMPs include the following:

BMP Summary	Measurable Goal	Implementation Schedule + Responsible Staff	Points			
			2024	2025	2026	2027
01 – 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 Haysville.	At least one pet waste station shall be installed at the selected park, trail, rest area or other public land. The stations shall include signage and a waste can.  Multiple pet waste stations located throughout the city.	Public Works staff of the City of Haysville.	1	1	1	1



## Haysville, KS: Stormwater Management Plan

<p>05 – 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.</p> <p>Alternately, post the document to social media or the municipal website.</p>	<p>Documents posted to social media, or the website shall have the page copied and printed to retain on file.</p> <p>Documents posted on website(s) shall be posted for at least 6 months. Documents posted on social media shall be posted 6 times within the year points are claimed.</p> <p>Information on pet waste stations located on the City Website.</p>	Stormwater Coordinator for the City of Haysville.	1	1	1	1
06- Distribute “Only rain down the drain” door hangers or similar document.	Documents regarding storm water codes and expectations are distributed with purchase of all permits through the public works office. These documents are also posted on the City Website.	Stormwater Coordinator for the City of Haysville.	2	2	2	2
09 – Implement a program to collect and properly dispose of litter, on four separate occasions per calendar year, within areas where littering has been identified as a problem.	<p>The four litter collection efforts should occur seasonally, if possible.</p> <p>Park-workers are tasked with collection of any and all litter found in their assigned areas.</p>	Stormwater Coordinator for the City of Haysville.	2	2	2	2
		Points Required:	6	6	6	6
		Points Expected:	6	6	6	6

