City of Beatrice, Nebraska

Stormwater Management Plan

(SWMP)

NPDES Stormwater Discharge Authorization Number NER310000

Issued July 1, 2017

Expired: June 30, 2022

Final Version: April 2025

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James Burroughs
City Engineer
City of Beatrice
205 N 4th Street
Beatrice, NE 68310

April 11, 2025

Mr. Tim Lindeen
Nebraska Department of Environment and Energy
PO Box 98922
Lincoln, Nebraska 68509

RE: City of Beatrice's 2025 Stormwater Management Plan – MS4 Permit Number NER310004

Dear Mr. Lindeen,

JEO Consulting Group, Inc., has been working with the City of Beatrice to update their 2025 Stormwater Management Plan. The 2025 SWMP includes Best Management Practice (BMP) tables includes in Appendix B that provides information on the following permit required elements:

- BMP title
- Measruable Goals
- 2025 Implemented BMP activities and corresponding metrics
- Implementation Methods

A PDF copy of the report is being sent via e-mail.

Should you have any questions, please contact James Burroughs at 402.228.5208 or via email: jburroughs@beatrice.ne.gov.

Sincerely,

James Burroughs, PE
CC: Phil Halsted

Table of Contents

Tables and Figures

Introduction

The City of Beatrice is required under the General NPDES Permit Number NER310000 to develop and continue to implement their Stormwater management Program (SWMP). The SWMP provides the city with a comprehensive plan that will serve as a guide for managing compliance with the city's NPDES General Permit NER310000 requirements.

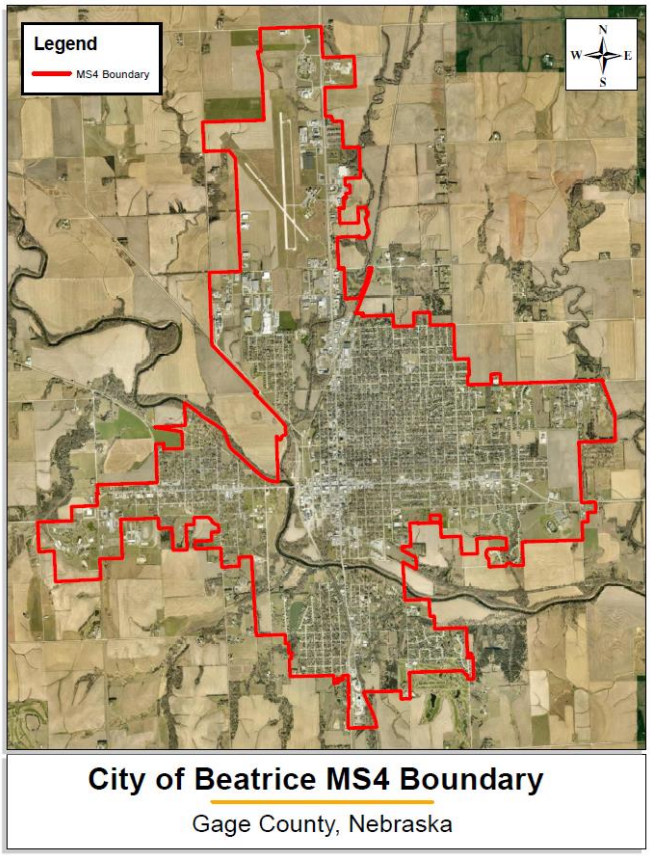


Figure (1): City of Beatrice MS4 urban area limits

Regulatory History

The Clean Water Act (CWA) of 1972 was amended in 1987 to include guidelines on regulating urban stormwater runoff through National Pollution Discharge Elimination System (NPDES) permits. In 1990, the EPA implemented a Phase I regulation requiring medium and large cities or certain counties with populations of 100,000 or more to obtain NPDES permit coverage for their stormwater discharges.

In 1999, the EPA implemented Phase II, which requires small MS4s in U.S. Census Bureau defined "Urban Areas" and any MS4s designated by the permitting authority to obtain coverage. Phase II also includes non-traditional MS4s such as the University of Nebraska, Nebraska Department of Transportation and state hospitals and prisons.

The Nebraska Department of Environment and Energy (NDEE) issued their first General Permit for small MS4 communities on July 1st of 2005.

City of Beatrice Permit History and Requirements (Part IV.A. 1-7)

On February 10, 2005, the City of Beatrice was informed by NDEE (previously NDEQ) that the city was considered a Phase II MS4 community due to their population size, population density, impaired waters near the city's boundary, and high concentrations of pollutants from industries in and around the city. The city submitted their Notice of Intent (NOI) for coverage under the NER300000 General Permit to the State on August 1, 2005, and was issued coverage on January 1, 2006. The city continues to maintain their coverage under the current MS4 General Permit NER310000. Under the permit coverage, the city must continue to implement, and enforce a storm water management program designed to reduce the discharge of pollutants from the MS4 to the maximum extent possible (MEP), to protect water quality, to satisfy the appropriate water quality requirements of the Clean Water Act, and include management practices, control techniques and system design, and engineering methods for each minimum control measure.

Watershed Information

The City of Beatrice primarily falls within the Big Blue River Watershed. The river's headwaters begin southwest of Osceola, Nebraska and flow in an east/southeast direction. The river discharges just south of Wymore, Nebraska, past the Nebraska/Kansas border. The Big Blue River is made up of six designated segments, with the City's boundary located inside of segments BB1-10000 and BB1-11800 (Bottle Creek- Big Blue River).

Over 77% of the Big Blue River Watershed's land use is cultivated cropland, with corn, sorghum, soybeans, and alfalfa the major crops grown. Species of fish found within the watershed include flathead catfish, common carp, and channel catfish. Seventy-seven municipal entities are located within the Big Blue River basin, ranging from cities to unincorporated communities.

In addition to the Big Blue River Watershed, just north of U.S. Highway 136 is the southern boundary of the Outlet Indian Creek Watershed. Outlet Indian Creek spans to the northern boundary of the City's limits.

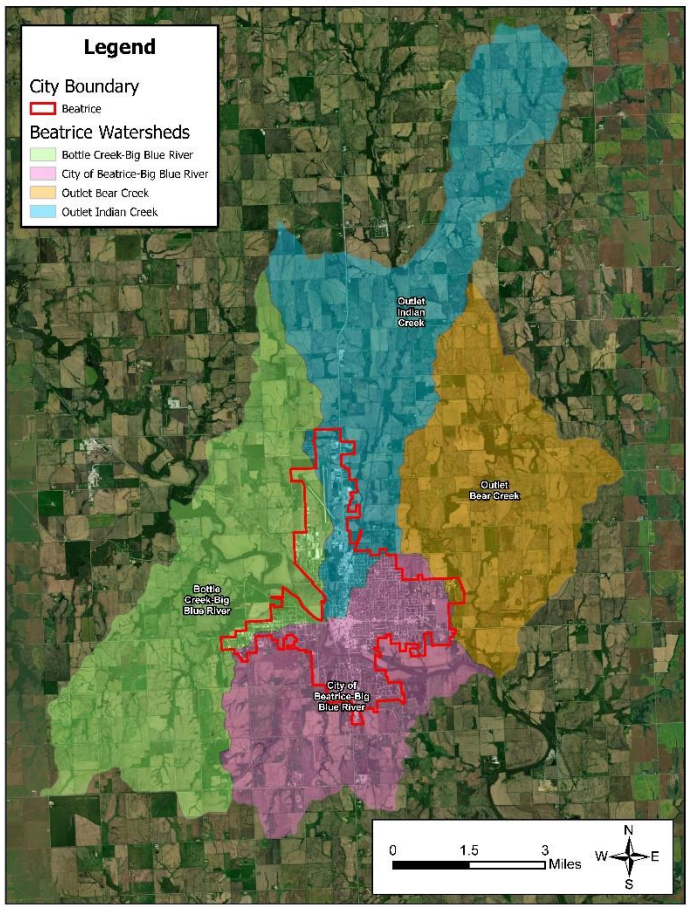


Figure (2): Watersheds within the city's MS4 urban area

Along the easternmost boundary, the city falls within a small portion of the Outlet Bear Creek Watershed as well.

Total Maximum Daily Load (TMDL) (Part III. D. 1.-3.)

A Total Maximum Daily Load (TMDL), as defined by the Nebraska Department of Environment and Energy (NDEE), is a calculation or equation that is used to determine the maximum amount of a pollutant that a waterbody (e.g. stream, river) can receive and still achieve assigned water quality goals.

The Big Blue River Watershed is listed as impaired by the U.S. EPA, meaning the waterbody does not fully support its designated/beneficial uses under the Clean Water Act based on specific state water quality standards. For primary contact recreation (e.g., swimming) the watershed is impaired due to *Escherichia Coli* (*E. coli*). The aquatic life beneficial use is impaired with the parameters of concern being Atrazine. Thus, total maximum daily loads (TMDLs) must be developed by NDEE for each parameter in accordance with the Clean Water Act.

The waste load allocation for Atrazine, established by NDEE, is zero (0). The entire Atrazine pollutant source has been determined to originate from nonpoint sources. Both point and nonpoint sources

(including natural sources) have been identified by NDEE as contributing to the *E. coli* loads to the Big Blue River. The waste load allocation (WLA) for *E. coli*, established by the Nebraska Department of Environment and Energy's (NDEE) 2013 TMDL report, is a geometric mean of 126 colony forming units (cfu)/100 ml.

Amendment Procedures and Requirements

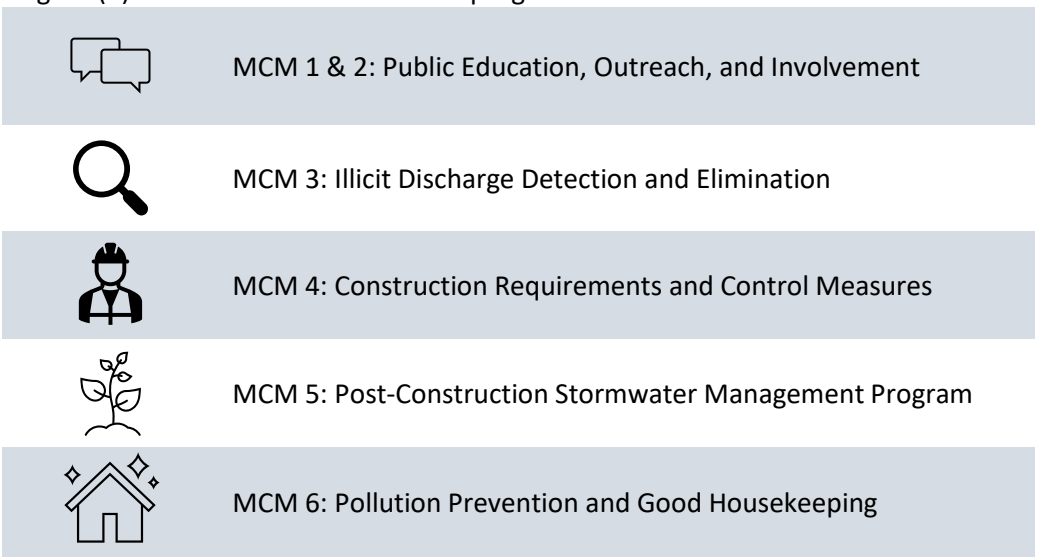
Either the Department or the City can propose amendments to the SWMP, monitoring requirements and reporting requirements. These amendments can either be proposed formally or informally. Proposed amendments shall not be implemented without agreement from either the City or the Department. If requested by the NDEE, the permittee must submit an amendment or SWMP modification within 90 days. Any major modifications, such as revising or removing a BMP must have NDEE approval and be publicly noticed for 30 days. Minor modifications such as typographical errors do not need to be publicly noticed, as stated in Title 119, Chapter 24, section 006.

Stormwater Management Program Requirements

(Part IV.A)

According to the NER310000 permit requirements, the city must develop, implement, and enforce their Stormwater Management Plan (SWMP) to help reduce stormwater pollutants and improve the health of nearby surface waters. This plan provides communications and guidelines for the MS4 staff, elected officials, community partners, businesses, and residents involved in implementing the SWMP. The SWMP is tailored to the individual community, the community's natural resources and needs. These needs are coordinated into programs known as "minimum control measures" or MCM's. Every MS4 community is required to address the following six MCM's:

Figure (3): Minimum control measure program breakdown



Each MCM must implement best management practices (BMPs) that have clear, specific, and measurable goals. For example, an MS4 can plan a trash pick-up day for the community to engage in with a measurable goal of (x) total bags of trash collected.

The MS4 community must keep records required by the NPDES permit for at least three (3) years. The MS4 must submit its records to the NPDES permitting authority only when specifically asked to do so. The MS4 must make its records, including a description of its storm water management program, available to the public.

The MS4 regulated entity must submit an annual report to NDEE on or before April 1st of each year. Per Title 119, Chapter 10 002.12K2 these reports must include:

Table (1): Annual Report requirements from NDEE Title 119, Chapter 10, Section 002.12K2

Title 119, Ch10 002.12K2(a)	The status of compliance with the permit conditions, an assessment of the BMPs and programs towards achieving the set goals for each MCM.
Title 119, Ch10 002.12K2(b)	Results of information collected and analyzed, including any monitoring data that was collected during the reporting period.
Title 119, Ch10 002.12K2(c)	A summary of the stormwater activities that the MS4 plans to undertake during the next reporting cycle.
Title 119, Ch10 002.12K2(d)	A change in any identified BMPs or measurable goals for any MCM.
Title 119, Ch10 002.12K2(e)	Notice the MS4 is relying on another government entity to satisfy some of its permit obligations (if applicable).

The MS4 regulated entity is also required to follow any conservation conditions set by the Nebraska Game and Parks Commission (NGPC) to avoid and/or minimize negative effects on potential endangered or threatened species near the MS4 community. MS4 specific conservation conditions can be identified by utilizing the NGPC Conservation and Environmental Review Tool (CERT) program found on the NGPC website.

Stormwater Management Plan

The SWMP is organized by minimum control measures (MCMs). Each MCM includes the rationale and decision process for the BMPs and the summary of activities. For information on the measurable goals, responsible party, schedule of activities, and educational messages, see Appendix B. For all MCMs, effectiveness of the BMPs is measured by whether the measurable goals were met, using the methods and activities described in Appendix B for each specific BMP.

MCM 1 and 2 - Public Education, Outreach, and Involvement

(Part IV. B. 1.)

A. Introduction

The city must implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

B. Target Audience

The City of Beatrice has identified the following target audiences for their education and outreach program that are likely to have the ability to affect stormwater quality: homeowners, pet owners, commercial and industrial businesses, construction site operators, and engineers/architects/developers and realtors. These target audiences have been designated to address different types of non-point source pollution through the Public Education and Outreach program. Household hazardous waste, pet waste, oil and other fluids from automobiles, and grass clippings are examples of high priority, community-wide pollutant issues.

C. References

City of Beatrice – Public education Outreach Strategy (POES) – The city's POE strategy is organized and based on the following concepts:

- Incorporation and modification of existing activities, procedures and policies to support BMP implementation to address regulatory compliance.
- Developed or existing information tailored to reach a diverse range of target audiences.
- Effort coordinated throughout multiple city departments and local agencies.
- Best management practices selected and implemented are focused on addressing compliance, meeting the established BMP measurable goals and as appropriate include reportable metrics to aid with evaluating BMP effectiveness.

D. Frequency

The BMPs listed below are implemented and reported on annually.

E. Responsible Parties

MCM 1 -Public education and outreach and MCM 2 – Public Involvement and Participation have identified the following responsible parties – City Stormwater Coordinator, Community relations staff, Keep Beatrice Beautiful (KBB) staff to support BMP implementation and reporting for these MCMs.

F. BMP Information

The table information in Appendix B describes the 2025 stormwater program for the BMPs associated with MCM 1 and 2.

MCM 3 - Illicit Discharge Detection and Elimination

(Part IV. B. 2.)

A. Introduction

The City of Beatrice has developed, maintains, implements, and enforces an Illicit Discharge Detection and Elimination (IDDE) Program to reduce and/or eliminate non-storm water discharges, including illegal dumping into the city's owner operated storm sewer system. The purpose of this MCM is to have the city through implementation of best management practices minimize the effect of illicit discharges on surface water quality. The city's IDDE program is governed through an ordinance enacted by the city and is codified within the city code. Dry weather outfall inspection screenings of storm sewer outfalls are performed within the community. The city also maintains a detailed storm sewer map that shows locations of the MS4 outfalls and allows the city to track the flow illicit discharges for both the major and minor outfalls shown in Figure 4. In addition, the city of Beatrice's storm sewer system map includes MS4 outfall locations as mentioned above, inlets, storm sewer pipes, and manhole boxes. Maintenance and updates of the storm sewer system map are done annually as as-builts and changes to the system occur and noted by city staff.

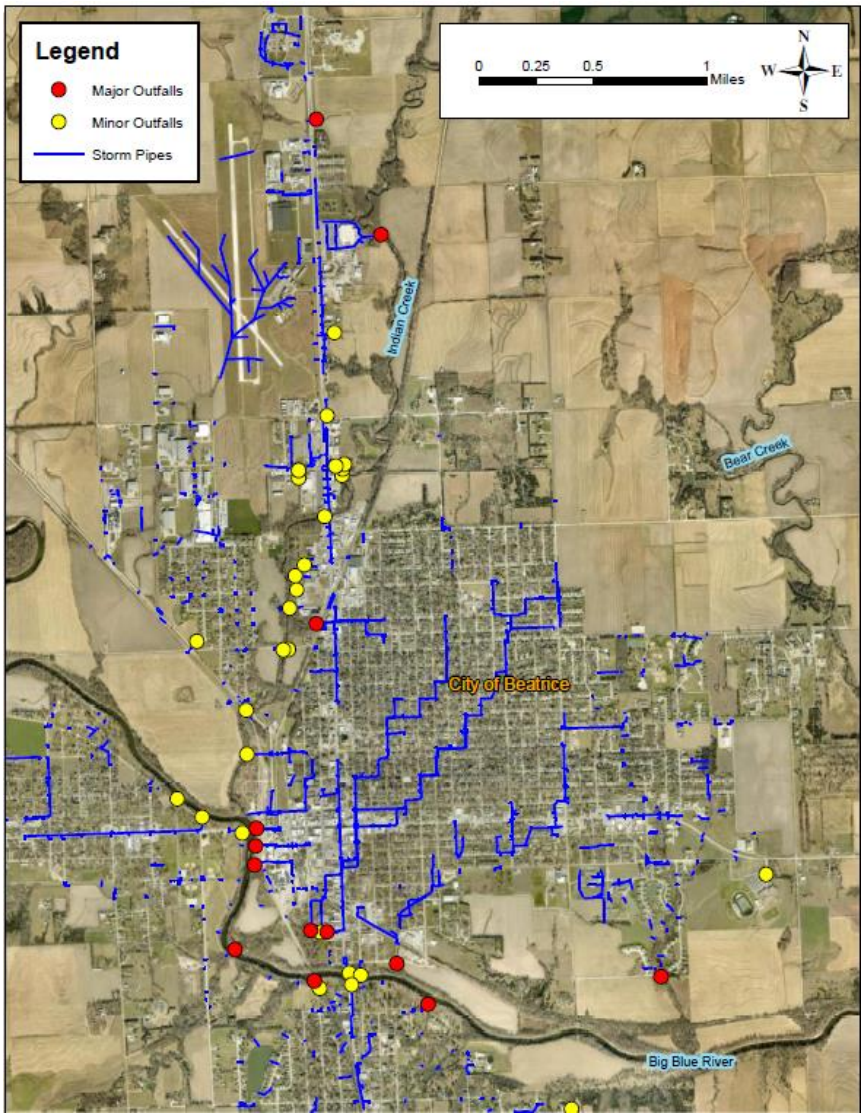


Figure (4): Major and Minor Outfalls and Storm Pipes

The city continues to prohibit illicit discharges with an active IDDE program that is codified within municipal code, complete with an Enforcement Response Plan. The city holds violators accountable by implementing appropriate levels of enforcement, based on the nature and circumstances of the illicit discharge. Beatrice's Municipal Code Chapter 27, Article I defines and prohibits non-stormwater discharges.

The city's full IDDE Plan is available on the City of Beatrice's webpage.

The City of Beatrice will continue to inform public employees, businesses, and the public about the impacts to water quality associated with illegal discharges and improper disposal of waste through training videos, posters, bulletins, website and press releases.

The city continues to maintain, update and expand their IDDE Program through development of additional materials outreach efforts that include additional website content, social media, and providing more presentation materials for training purposes. The city continues to share the 2022 uploaded "Where the Water Flows" on the City of Beatrice website. This article provides information on:

- Sanitary sewer system vs the municipal separate storm sewer systems and how contaminants from various sources can impact water quality to receiving streams and rivers.
- Encourages residents to allow only rain down the drain.
- Published additional educational brochures for businesses, that discuss proper uses of trash containers, grease traps, the need to keep wastes of any kind out of storm drains, and the need for cleaning up litter on business property.

The City of Beatrice continues to ensure that illicit discharge ordinances, procedures, and actions are implemented through proper and consistent education of city employees to recognize illicit discharges, and train employees of the proper contacts to make in response to a discharge or spill incident. The city continues to maintain protocols through implementation of an Enforcement Response Plan that identifies procedures to be implemented based on the severity of non-compliance. All new City employees at maintenance facilities are responsible for maintaining MS4 areas, who as part of their daily job responsibilities, may come into contact with or observe an illicit discharge, receive training within one year of hire. After that, all City employees at maintenance facilities receive training every three years.

The IDDE Program protocols include:

- Reporting requirements to investigate, trace, and remove potential illicit discharges, including illegal dumping or spills.
- City contact information (via phone or website), a citizen can identify and report to the responsible party what they saw. The citizens can remain anonymous or be known.
- Illicit discharges are addressed and tracked until the issue is resolved and the party responsible is identified and contacted by city staff.
- The City of Beatrice's City Engineer is responsible for the overall management and implementation of the IDDE Program and supporting activities.

B. Target Audience

The target audience for this minimum control measure covers a wide range and includes – Public works staff, Engineering Department, General public, business and commercial establishments. These target audiences were identified based on their impact to the environment through the process of constructing structures on the landscape and their impacts on converting pervious areas to more impervious as part of the building process. These target audiences have been designated to address different types of non-

point source pollution through the construction stormwater program. Sediment, oil and grease, pesticides and other toxics are examples of high priority stormwater runoff pollutant issues.

C. **References**

The following are reference materials for use to guide BMP implementation, reporting, maintaining and enforcing the MCM 3 requirements:

- IDDE Manual
- Beatrice Municipal Code – Chapter 27, Article II
- GIS Outfall map
- City of Beatrice POE strategy
- City's stormwater webpage

D. **Frequency**

The BMPs listed below are implemented and reported on annually.

E. **Responsible Parties**

The party responsible for this minimum control measure is the Stormwater coordinator

F. **BMP Information**

The table information in Appendix B describes the 2025 stormwater program for the BMPs associated with MCM 3.

MCM 4 - Construction Site Stormwater Runoff Control

(Part IV. B. 3.)

A. Introduction

The city continues to update, implement, and enforce a construction stormwater program requirements to reduce pollutants in stormwater runoff from new development, re-development construction sites 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 MS4 program if that activity is part of a larger common plan of development or sale that would disturb one acre or more. The city's construction stormwater design standards and the Drainage Criteria are available on the city website.

The purpose of this MCM is to reduce pollutants in stormwater runoff from construction activities that result in land disturbance. In accordance with NDEE Administrative Code 119.10.002.12D, Nebraska Small MS4 General Permit NER310000 IV.B.3, and City of Beatrice Municipal Code Chapter 27, the construction stormwater program includes and adheres to the following elements:

Construction Stormwater Ordinance
Operator Requirements to Implement Sediment & Erosion Control, Waste, and Stormwater Controls
Construction Sediment & Erosion Control and Site Plans
Construction Site Inspection and Enforcement Procedures.
Construction Stormwater Education

The City of Beatrice requires site operators to enact erosion and sediment control measures on construction sites via Beatrice Municipal Code, Chapter 27, Article III – Erosion and Sediment Control. The ordinance language ensures construction projects within the City Limits require proper erosion and sediment controls, as well as inspection and evaluation methods.

The City of Beatrice will update as needed its Enforcement Response Plan (ERP) that defines the level of enforcement based on the level of non-compliance. The ERP is located within the Construction Stormwater Program document and addresses all levels of non-compliance. The city will follow through on issues of non-compliance until resolved. Communication with the violator can vary from a phone call to a formal notice of violation or to implementation and enforcement of civil penalties.

The City of Beatrice requires an Erosion and Sediment Control Plan (ESCP) for projects greater than or equal to an acre, or for projects that are a part of a larger plan of development. Before construction activities can begin, the project's stormwater pollution prevention plan (SWPPP) will need to be reviewed by the city to ensure that the plans follow the erosion and sediment control criteria set forth in Chapter 8 of the City of Beatrice Drainage Criteria Manual. Though the project will need to be approved by NDEE beforehand, this allows for additional "check points" and ensures projects follow the specific criteria developed for the city.

The City of Beatrice, City Engineer is ultimately responsible for the management and overall implementation of the Construction Stormwater Program. Parts of this program operate outside the regular authority of the City Engineer, specifically the elements of reviewing plans brought in front of the Development Review Team. A copy of the Construction Stormwater Program document is in Appendix A of this plan.

The City of Beatrice continues to evaluate the effectiveness of the construction stormwater program through comparing the city's annual efforts against the measurable goals set for each BMP. BMPs will be considered effective if all goals are met, using the existing messages, methods, and activities. The city's assessment of BMP effectiveness will be submitted in each annual report.

B. Target Audience

- City Staff
- General Public

These target audiences were identified based on their impact to the environment through the process of constructing structures on the landscape and their impacts on converting pervious areas to more impervious as part of the building process. These target audiences have been designated to address different types of non-point source pollution through the construction stormwater program. Sediment, oil and grease, pesticides and other toxics are examples of high priority stormwater runoff pollutant issues.

C. References

- Beatrice Municipal Code, Article III – Erosion and Sediment control (Construction Stormwater program)- sections 27 – 60.
- Drainage Criteria Manual – Chapter 8 – Erosion and sediment control criteria
- MCM 4 – Construction Stormwater Program Document (2019, 2024)
- City of Beatrice POE strategy

D. Frequency

- Annually

E. Responsible Parties

- Stormwater coordinator

F. BMP Information

The table information in Appendix B describes the 2025 stormwater program for the BMPs associated with MCM 4.

MCM 5 - Post-Construction Stormwater Management in New Development and Redevelopment

(Part IV. B. 4.)

A. Introduction

After a project is complete, post-construction stormwater control facilities are required to be managed and operable over time to reduce the impacts of developments on local streams and water resources. The city maintains and enforces a program to control stormwater discharges from new development and redeveloped sites that result in a total land disturbance of one or more acres or that result in a total land disturbance of less than one acre if part of a larger common plan of development or sale that discharges into the city's storm sewer system. The purpose of this MCM is to ensure the quality of water leaving a recently completed construction project site that remains continuously treated prior to leaving the site or property. With the implementation of specifically required stormwater treatment facilities (STFs) the quality of water will, to the extent practical remain relatively clean prior to entering receiving waters. These STFs will be monitored and maintained based on official maintenance agreements co-signed by the owner and the city.

The City's post-construction program aims to preserve water quality by preventing or minimizing the impacts of stormwater runoff from new development or redeveloped sites greater than one acre or less than an acre but part of a larger common plan of development. Procedures to implement and maintain the program, including enforcement, are detailed in the BMPs listed in Appendix B of this plan.

The City of Beatrice Post-Construction Stormwater Program provides a submittal checklist that describes the required information on each site for proper selection and completion of a post-construction site plan review when applications for construction are submitted for approval. The city will review the designer's submitted post-construction stormwater management plans (PCSMPs) to make sure they have the appropriate plan content, calculations, certification of permanent BMPs, ongoing inspections and maintenance form for the BMPs, and a completed checklist. The city's Drainage criteria manual is available on the city's website. This checklist will be made available online and in the Public Works Department upon the developer's introduction of the plan to the city. Once all the proper documents have been submitted, the site plans will be reviewed. The City Engineer will review the post-construction documents and site plans.

The City of Beatrice will require a series of inspections of the constructed stormwater treatment facilities to ensure proper construction and functionality of the STFs. These inspections will be performed by a licensed engineer in the State of Nebraska prior to completion of the development project. Beatrice Municipal Code will outline requirements for these STFs to function appropriately in perpetuity.

The prioritization and procedures for inspection and enforcement for post-construction STFs are identified in the Post-Construction Stormwater Management Program. Enforcement will be conducted through maintenance agreements, and inspections are allowed by the owner whenever the city wishes to perform them.

The City Engineer will be responsible for the implementation of the Post-Construction Stormwater Program. It is the City Engineer who develops and inspects the stormwater pollution prevention plans

(SWPPPs) for municipal projects greater than one acre. The City Engineer communicates directly with the developers and contractors as needed to resolve non-compliance issues. The City of Beatrice will evaluate the effectiveness of the post-construction stormwater program through comparing the city's annual efforts against the measurable goals set for each MCM 5 BMPs. BMPs will be considered effective if all goals are met, using the existing messages, methods, and activities. The city's assessment of BMP effectiveness will be submitted in each annual report.

B. Target Audiences

- City Staff
- Development Community

The City of Beatrice has identified the following target audiences associated with their post-construction stormwater program that are likely to have the ability to affect stormwater quality: contractors, engineers, municipal staff, commercial/industrial property site managers and homeowner's associations (HOAs). These target audiences were chosen due to the nature of their activities in conjunction with potentially impacting and protecting surface water quality and their availability to be engaged. These target audiences have been identified to address different types of non-point source pollution through the design, construction, operation and maintenance of post-construction stormwater management. Sediment, oil and grease, pesticides and other toxics are examples of high priority stormwater runoff pollutant issues.

C. References

- Beatrice Municipal Code, Article IV – Post- Construction Stormwater Management
- PCSW Program Sections 2 and 3, Appendices

D. Frequency

- Annually

E. Responsible Parties

- Stormwater Coordinator

F. BMP Information

The table information in Appendix B describes the 2025 stormwater program for the BMPs associated with MCM 5.

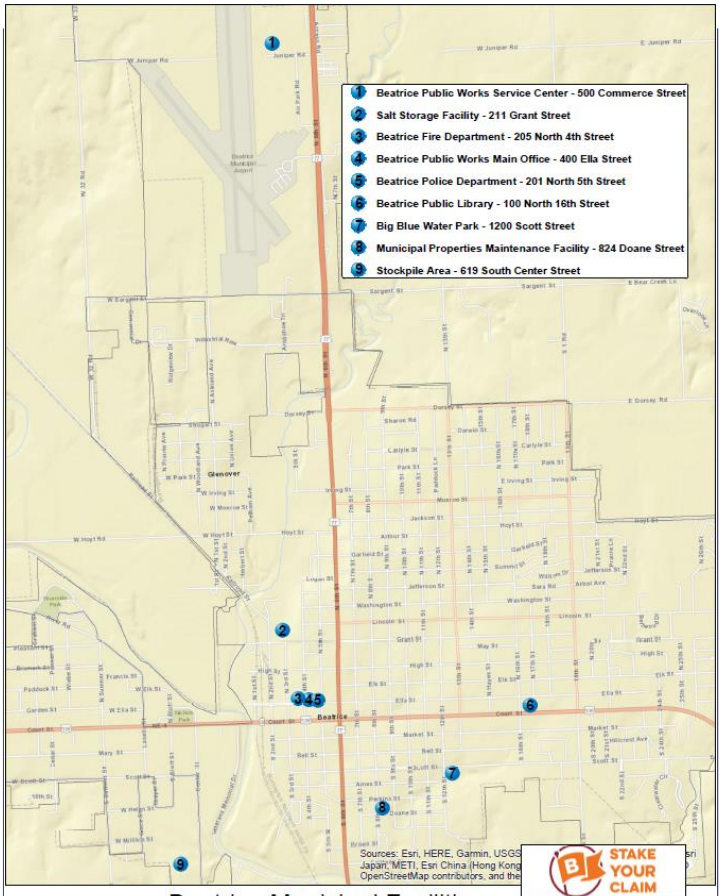
MCM 6 - Pollution Prevention/Good Housekeeping

(Part IV. B. 5.)

A. Introduction

The City of Beatrice maintains an inventory of municipally owned or operated facilities and stormwater controls that are available for review. The purpose of this MCM is to minimize the municipality's contribution of stormwater pollutants into receiving waters. Facility operations have been identified as having the greatest likelihood to cause pollution while co-mingling with stormwater runoff. The facilitators/supervisors for these facilities are educated and trained in standard operating procedures (SOPs) for reducing or eliminating pollutants from entering the storm sewer system and receiving water.

The City of Beatrice is responsible for the stormwater pollution that its municipal operations and maintenance activities create. Pollution prevention activities and procedures such as training, standard operating procedures, and recordkeeping help minimize the effect our actions have on the environment. The city's pollution prevention and good housekeeping activities include the following:



Beatrice Municipal Facilities

- Implementing and maintaining facility run-off control plans (FRCP) for the qualifying city facilities. The FRC plans include facility inspection forms that are completed monthly by city staff conducting inspections. These inspection forms are included as part of the FRCP and are used to support the city's annual MS4 reporting requirements.

- Municipal 'Hotspot' Evaluations – These evaluations are to be conducted once per 5 year permit term or if a city facility undergoes a substantial renewal or upgrade, These evaluations are a means for the city to document facilities that maybe be experiencing an increase in the facility hotspot from the previous and would be scored a high priority facility needing attention related to good housekeeping BMPs, staff training, or other activities to correct the facility high priority status. The city defines a municipal facility 'hot spot' as a facility that has an increased 5-year inspection score of greater than 20 since the previous permit term inspection. The basis of the 20 or greater value is based on facility operations and the following ratings: Never or only on rare occasions = 0; Occasionally 1 to 2 times/year = 1; Frequently occurs monthly =2;

Routine occurs weekly =3. These values are placed in a scoring table that lists the typical facility activities. These scores are added and are placed in one of the following 'Hot spot' categories:

- Less than 10 – not a hot spot – targeted education
- Between 10 and 20 – Potential 'hot spot' – Targeted education and Policy revisions (consider FRCP to be developed and implemented at facility).
- Greater than 20 – 'Hot spot' – FRCP Required.

- Maintain and update municipality facility map.
- Continue to implement and report on facility Spill Prevention Control and
- Countermeasure (SPCC) BMPs.
- Continue storm sewer maintenance activities (cleaning inlets, removal of trash form structures, street sweeping etc.).
- The training program will continue to target employees involved in good housekeeping practices.

B. Target Audience

- City Engineer
- Municipal Facility Operations and Maintenance Staff

The City Engineer is responsible for the overall management and implementation of the Good Housekeeping and Pollution Prevention Program. It is the responsibility of each Department/Division involved to implement their activities and report to the City Engineer upon inquiry. These target audiences were chosen due to the nature of their activities and the potential of these activities to impact stormwater runoff and generate pollutants. This audience group can be easily communicated with. These target audiences have been designated to address different types of non-point source pollution through pollution

C. References

- Good Housekeeping and Pollution Prevention Program document
- City of Beatrice POE strategy

D. Frequency

- Annually

E. Responsible Parties

- Stormwater Coordinator

F. BMPs Information

The table information in Appendix B describes the 2025 stormwater program for the BMPs associated with MCM 6.

Appendix A. Stormwater Management Program List of Resources

City of Beatrice PEO Strategy (MCMs 1, 2, 3, 6)
City of Beatrice Code: Chapter 27 (MCMs 1, 2, 3, 6)
City of Beatrice websites (Stormwater and Keep Beatrice Beautiful) (MCMs 1 and 2)
IDDE Program Manual (MCM 3)
City of Beatrice Outfall Map (MCM 3)
City of Beatrice Drainage Criteria Manual (MCM 4)
Good Housekeeping & Prevention Program Document (MCM 6)

Appendix B. Stormwater Management Plan Implementation and Goals

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
Minimum Control Measure 1 Public Education and Outreach							
1.1.1	Online Website	Basic Stormwater Protection Awareness – Stormwater Program Management and BMP topics	1. City of Beatrice website. 2. Nebraska H2O 3. City of Beatrice website blog (https://www.beatrice.ne.gov/engineering/page/engineering-blog)	1. Maintain the MS4 Stormwater Management website (https://www.beatrice.ne.gov/engineering/page/stormwater-ms4).	Number of website visits.	365 website engagements per year	Revisions to the City's website allowed for more information and educational materials to be made available. The updated website design enables greater ease of reading and outlines key information on the main page. There is a public comment and engagement section with the stormwater management plan. Website content, traffic, and feedback will be utilized to determine program effectiveness.
1.1.2	Social media	Basic Stormwater Protection Awareness – Stormwater Program Management and BMP topics	1. City of Beatrice Facebook 2. Keep Beatrice Beautiful Facebook	1. Post stormwater BMP and information to “Keep Beatrice Beautiful” Facebook page. 2. Post stormwater BMPs to the City of Beatrice’s social media platforms.	Number of Facebook posts and audience reached on Facebook	12 posts per year	The city and Keep Beatrice Beautiful use social media platforms to engage the public and gage effectiveness through number of attendees at social media posted events and through number of posts annually.
1.1.3	Storm Drain Awareness	Basic Stormwater Protection Awareness – Provides the community with a chance to play an active role with reducing and preventing potential pollution through labelling city storm drains with pollution prevention markers supporting reduction of pollutants being conveyed to rivers, lakes and streams.	1. Storm Drain Design Standards 2. Storm Drain Adhesive Markers 3. Coordination with local youth groups 4. Advertise through social media	1. Require use of pre-stamped inlet grates stormwater message. 2. Mark storm drains with adhesive markers. 3. Partner with community groups to engage the public in stormwater pollution prevention.	Number of storm drains marked, or markers replaced. Number of youth group events held.	10 storm drains marked or replaced per year. Work with Keep Beatrice Beautiful to hold 1 labeling event per year.	The city and Keep Beatrice Beautiful will continue to coordinate to promote Storm Drain Awareness through storm drain marking and replacement markers. Effectiveness evaluation is to mark, or re-mark 10 storm drains annually.
1.1.4	Branded Materials	Basic Stormwater Protection Awareness –Reduce pollution by keeping water draining to inlets, streams, and lakes clean	1. Branded Materials – Homestead Days Parade	1. Distribute branded materials at events. 2. Maintain supply of Erosion and Sediment Control Guides in Community Development Office.	Number of branded materials distributed	25 handouts per City of Beatrice community event	Adding revisions to the City of Beatrice website allowed for more information and educational materials to be available for public use. The layout of the website was designed for ease for the reader and to outline the important information on the main page. The site includes a section allowing public comments and engagement with the stormwater management plan. Website content, traffic, and feedback will be utilized to determine program effectiveness.

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
Minimum Control Measure 2 - Public Participation and Involvement							
2.2.1	Keep Beatrice Beautiful Clean-up Events	Provide community awareness of the impacts of pollution to local waterbodies.	1. Coordination with KBB Organization 2. Advertise through print and social media	1. Maintain Facebook page to distribute information on clean-up days. 2. Maintain Keep Beatrice Beautiful website (https://keepbeatricebeautiful.org/) to inform the public about volunteer opportunities.	Number of participants and outreach events annually.	3 clean up, recycling, litter clean up events per year	The city will continue to work with Keep Beatrice Beautiful to coordinate public outreach events. The effectiveness measures for this BMP will include number of events scheduled, number of attendees and assessment of increasing attendance and litter/pollutant volumes collected.
2.2.2	Household Hazardous Waste Disposal Day	Provides the community with a chance to play an active role with reducing and preventing potential pollution through disposing or recycling household hazardous wastes properly.	Advertise through print and social media.	1. Maintain Facebook page that promotes KBB clean-ups. 2. Hold pick-up days. 3. Maintain Keep Beatrice Beautiful webpage, including information on programs the public can be involved in.	1. Number of collection events. 2. Volume of hazardous waste collected.	Schedule one collection event and document volume of hazardous waste collected annually.	The city will continue to assess efforts and coordinate with Keep Beatrice Beautiful to evaluate effectiveness through participation numbers and visual reduction of pollution within receiving waters because of implementing the Hazardous Household waste disposal and Medicine Take back collection event.
2.2.3	MS4 Permit	NDEEs MS4 Permit provides requirements that the city uses to direct and guide resources to implement permit requirements	Copies of the city's MS4 permit and additional supporting MS4 documents are available via the city's stormwater management webpage.	1. Continue to maintain the program website with updated MS4 permit information. 2. Continue to provide appropriate stormwater educational information for the public.	Document updated information or program materials up-loaded to the program website.	Update MS4 permit information on website as necessary or after release of the next generation MS4 permit.	The city continues to address permit requirements through BMP implementation, guidance manual updates and outfall screenings.
2.2.4	Stormwater Management Plan (SWMP)	The SWMP is the city's 'road map' for implementing NDEEs MS4 permit.	Copies of the city's SWMP and additional supporting MS4 documents are available via the city's stormwater management webpage.	1. Continue to maintain the program website with updated SWMP information. 2. Continue to provide appropriate stormwater educational information for the public.	Document updated information or program materials up-loaded to the program website.	Update SWMP information after the release of the next generation MS4 permit and update SWMP information on webpage as appropriate.	The city updates their SWMP annually and makes revisions as necessary to maximize BMP implementation and the ability to report on BMP performance.
2.2.5	Stormwater Program Ordinances	City's MS4 program ordinances, Drainage criteria and construction stormwater management document are available for the public to use and to aid with program compliance.	General public, consultants and contractors can access and view MS4 program documents through the city's stormwater webpage.	1. Maintain the MS4 Stormwater Management website (https://www.beatrice.ne.gov/engineering/page/stormwater-ms4) to provide stormwater information to the public.	Number of website attendees and tracked comments on document revisions suggested.	Provide a public forum to receive input about proposed stormwater compliance plans, suggested ordinance revisions and stormwater design change recommendations.	The city's assessment of effectiveness for this BMP includes interaction with the public with respect to soliciting feedback on ordinance revisions, updates and creation and collecting public comments.
2.2.6	Comments on Ordinance Adoption and Revision	Public input helps inform public policy and ordinances for protecting water quality	1. City Council 2. Public Notices	1. Maintain the MS4 Stormwater Management website (https://www.beatrice.ne.gov/engineering/page/stormwater-ms4) to provide stormwater information to the public.	Resources utilized.	Provide a public forum to receive input about proposed stormwater compliance plans and ordinances.	The city's assessment of effectiveness for this BMP includes interaction with the public with respect to soliciting feedback on ordinance revisions, updates and creation and collecting public comments.

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
Minimum Control Measure 3: Illicit Discharge Detection and Elimination							
3.1.1	Stormwater Illicit Discharge Detection and Elimination (IDDE) Program Manual	Ordinance adaptation, storm sewer mapping, active detection and elimination program, tracking, staff training.	IDDE program is managed by the City's Engineering Department. Public Works staff also play a significant role identifying illicit discharge problems and responding to clean-up requests. In addition, all Public Works, Parks, Police, and Fire staff will play a role in locating, identifying, and reporting potential illicit discharges.	1. Maintain and update IDDE Program Manual to address illicit discharges and describe methods to investigate, detect, and report illicit discharges. 2. Continue to enforce administrative actions that aid in prohibiting illicit discharges to the MS4. 3. Implement notification procedures to document incidents. 4. Continue documenting illicit discharges using the Tracking Sheet. 5. Fire Department continues to record minor spills from vehicle accidents. 6. Continue to conduct illicit discharge inspections of municipal operations and Public Works Departments.	Document number of illicit discharges and illegal connections within/into the City's MS4 owner/operated storm sewer system at the city facilities.	Investigate, remove, or cause responsible party to remove and clean up spills, illegal discharges, and illicit connections within and/or into the city's owned and operated MS4.	The development of the IDDE Manual has assisted the City in methods to investigate, detect, and report illicit discharges, and has enacted policies to enforce administrative actions to aid in prohibiting non-stormwater discharges, illegal discharges, and/or dumping into the MS4 system. The goal of the IDDE manual is to provide the city with a method to reduce or eliminate illicit discharges to receiving streams.
3.1.2	IDDE Program Tracking Form	Continue to educate public on the impacts of illicit discharges to the city's storm sewer system and provide mechanism for the public to report spills or illicit discharges through the "How Do I" report portion of the city's webpage.	Record dates of all notifications of potential illicit discharges, stakeholders involved, investigation and communication efforts, status, and final resolution taken for addressing potential illicit discharges.	1. City maintains a map of major outfalls which are defined as any outlet diameter equal to or greater than 36 inches. 2. Continue to offer training programs to city staff to address illicit discharges and describes methods to investigate, detect, and report illicit discharges. 3. Continue to evaluate and revise as necessary policies to enforce administrative actions to aid in prohibiting non-stormwater discharge, illegal discharges, and/or dumping into the MS4 system.	1. Notifications of potential illicit discharges. 2. Initiations of investigations or contacts to adjacent MS4 operators. 3. Open record updates. 4. Close out unresolved illicit discharges.	1. Record all notifications of potential illicit discharges. 2. Initiate investigation or contact adjacent MS4 operator within two days for all illicit discharge notifications. 3. Update all open records, once a week, until the issue is resolved. 4. Record all instances that were closed out without resolution.	The development of the IDDE Manual has assisted the City in methods to investigate, detect, and report illicit discharges, and has enacted policies to enforce administrative actions to aid in prohibiting non-stormwater discharges, illegal discharges, and/or dumping into the MS4 system. The program has aided The City in detecting three illicit discharges from industrial users that would have gone unnoticed if the IDDE manual had not been developed. The goal of the IDDE manual was to provide the city with a method to reduce or eliminate illicit discharges to receiving streams.
3.1.3	Dry Weather Screening	Continue to educate the public, contractors and staff on the impacts of illicit discharges into receiving waters.	Conduct and record outfall inspections in the outfall geodatabase.	1. The city inspects their major outfalls during the month of June. The city completes inspection records for each outfall. 2. The city inspects minor at least once every 3 years and completes records for each outfall.	1. Outfall inspection records. 2. Major outfall screenings. 3. Minor outfall screenings.	1. Conduct and record all outfall inspections in the outfall geodatabase within the calendar year. 2. Screen each major outfall annually. 3. Investigate each minor outfall every three years.	The city maintains an outfall and outlet map to detect illicit discharges. The goal is to identify where outfalls occur to assist with the identification of illicit discharges for the city to reduce or eliminate IDDE reported illicit discharges annually.

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
3.1.4	Storm Sewer System and Outfall Mapping	Continue to maintain knowledge of the city's storm sewer system and outfalls to effectively update and modify as needed to add or remove outfalls and new system segments.	Maintain all outfall attribute updates within geodatabase with stormwater outfall information currently available for major and minor outfalls. Update existing delineated drainage boundary attributes with existing/future land use at a minimum of once every five years for all outfalls that discharge to State-designated receiving waters in the MS4.	1. Review the most current MS4 boundary map developed by NDEE and address any urban area revisions. 2. Inspect major/minor outfalls as required by permit frequencies.	Updates to the geodatabase.	1. Maintain all outfall attribute updates in geodatabase of stormwater outfall information currently available for major and minor outfalls. 2. Update estimated drainage boundary attributes with existing and future land use at a minimum of five years for all outfalls that discharge to State designated receiving waters in the MS4. 3. Update all outfall, storm drain infrastructure, collection system, and stormwater treatment georeferenced attributes in the geodatabase within one year of new construction or 30 days following routine outfall dry weather screening.	Identification of outfalls and creating an outfall map enhances the City's knowledge of stormwater sewer system discharge locations and provides efficient means to categorize, locate, and inspect stormwater outfalls for illicit detection purposes.
3.1.5	Water Quality Brochure: Illicit Discharge Resource & References	Identify, report, investigate, and remove illicit discharges and connections.	City operation and maintenance facility	The city has developed a training schedule to meet the requirements for the MS4 Permit with two courses: 1. Training for field staff to educate them on what constitutes an illicit discharge and how to report them; 2. Training for illicit discharge responders on proper identification, investigation, clean-up, disposal, and reporting techniques for incidents.	Number of staff trained.	1. Train city employees who may come into contact with or observe an illicit discharge or illicit connection. 2. Train all new city employees at maintenance facilities responsible for maintaining MS4 areas, who may come into contact with or observe an illicit discharge to the MS4 within one year of hire. 3. Train all city employees at maintenance facilities responsible for maintaining MS4 areas who may come into contact with or observe an illicit discharge to the MS4 every three years.	Website content related to brochure downloads, Website traffic, and feedback will be utilized to determine program effectiveness.
3.1.6	Water Quality Brochure: Household Hazardous Waste	Prevent pollution by disposing of Household Hazardous Waste properly	Information provided on Hazardous Household Waste disposal via the city's stormwater website or at city hall.	Continue to make the Household Hazardous Waste brochure available and continue to look for updated and relevant content to keep the brochure updated. Make edits/changes as appropriate.	Percentage of targeted audience with information made available to them.	Distribute information related to hazards associated with illicit discharge and improper disposal of waste to Employees, Businesses and public.	Website content related to brochure downloads, Website traffic, and feedback will be utilized to determine program effectiveness.

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
3.1.7	Water Quality Brochure: Pet Waste	Prevent pollution from pet waste by collecting and disposing of it properly.	1. City website 2. City Hall business counter	The city has published a Pet Waste brochure and will continue to update as needed and make available on the stormwater webpage	Percentage of targeted audience with information made available to them.	1. Reach 50% of the targeted audience. 2. Update Water Quality Brochure for Pet Waste to match current PEO Strategy as necessary.	Website content related to brochure downloads, Website traffic, and feedback will be utilized to determine program effectiveness.
3.1.8	Water Quality Brochure: Landscaping and Lawn Care	Prevent pollution by controlling lawn and garden waste and chemicals from leaving your property.	1. City website 2. City Hall business counter	The city has published a Landscaping and Lawn care brochure and will continue to update as needed and make available on the stormwater webpage	Percentage of targeted audience with information made available to them.	Reach 50% of the targeted audience.	Website content related to brochure downloads, Website traffic, and feedback will be utilized to determine program effectiveness.
3.1.9	Water Quality Brochure: Automotive Repair	Prevent pollution from automotive maintenance activities.	1. City website 2. City Hall business counter 3. Distributed to businesses conducting automotive maintenance	The city has published an Automotive Repair brochure and will continue to update as needed and make available on the stormwater webpage	Percentage of targeted audience with information made available to them.	Reach 75% of the targeted audience.	Website content related to brochure downloads, Website traffic, and feedback will be utilized to determine program effectiveness.
3.1.10	Water Quality Brochure: Restaurants	Prevent pollution from waste materials, oils, and grease from restaurants.	1. City website 2. City Hall business center 3. Distributed to restaurants	The city has published a Restaurant Waste disposal brochure and will continue to update as needed and make available on the stormwater webpage	Percentage of targeted audience with information made available to them.	Reach 75% of the targeted audience.	Website content related to brochure downloads, Website traffic, and feedback will be utilized to determine program effectiveness.
3.1.11	IDDE Training	Identify, report, investigate, and remove illicit discharges and connections.	Water Quality Brochure: Illicit Discharge Resources & References	The city developed the educational webpage in 2022 and will continue to modify the articles as needed to add literature relevant to the topic of illicit discharges and proper waste disposal when gaps in education appear.	Number of staff trained.	1. Train City employees who may come into contact with or observe an illicit discharge or illicit connection. 2. Train all new City employees at maintenance facilities responsible for maintaining MS4 areas, who may come into contact with or observe an illicit discharge to the MS4 within one year of hire. 3. Train all City employees at maintenance facilities responsible for maintaining MS4 areas who may come into contact with or observe an illicit discharge to the MS4 every three years.	The measure of effectiveness for this BMP is based on training city staff to properly identify non-stormwater discharges and the appropriate response to document and remove these discharges from being able to discharge in the future. The training provides a baseline understanding of illicit discharge detection and elimination.

MCM 4

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
Minimum Control Measure 4: Construction Stormwater Management							
4.1.1	Construction Stormwater Program	Minimize stormwater runoff from any development to reduce flooding, sedimentation, and stream bank erosion. Minimize increases in non-point source pollutants. Minimize total stormwater runoff volumes for developed areas to be no more than the predevelopment condition.	Control or eliminate soil erosion and sedimentation within the jurisdictional limits of the city. Establish standards and specifications for conservation practices and planning activities that minimize soil erosion and sediment during construction.	1. The City maintains a Construction Stormwater Program which describes the authority The City has in reducing pollutants in stormwater runoff 2. The City has Erosion and Sediment Control Authority set forth in City Code Chapter 27 Article III that states "The City shall designate appointed personnel with authority to conduct inspections, issue notices of violations, and implement other enforcement actions under this Code as provided by the City	Tracking by the amount of non-compliance and corrective actions issued by the City	Conduct procedures to investigate, remove and enforce each instance of construction stormwater non-compliance for observed non-compliance of the municipal code/ordinance.	The City's Construction Stormwater Program, City Code, Chapter 27-Article III – Erosion and Sediment Control, the SWPPP checklist for projects greater than an acre, the SWPPP inspection templates to reduce stormwater runoff rates, volumes, soil erosion and non-point source pollution through stormwater management control have been an effective means to educate, document, track, and enforce erosion and sediment control for construction sites. These programs will continue to be utilized to maintain, implement, and enforce erosion and sediment control.
4.1.2	Construction Site Plan Review	Continue to maintain and use the following: SWPPP Tracking spreadsheet, SWPPP review checklist, and Construction stormwater project tracking sheet	Complete Construction Stormwater Site Plan Review Form for every land development and building project that will disturb at least one acre of soil surface alone or as part of a larger common plan of development or sale.	The Construction Stormwater Program contains a project review section that requires public works staff to review erosion and sediment control plans and associated SWPPPs according to the NDEE Construction General Permit. The City tracks NOI submittals and maintains a checklist of minimum required criteria for approving SWPPPs.	Reviewing x amount of SWPPPs submitted to the city	Conduct and record site plan reviews for all land development and building projects that will disturb at least one acre of soil surface alone or as part of a larger common plan of development or sale.	The Construction Stormwater Program requires the City to be notified of any project requiring SWPPP documentation. It ensures that plans developed for the SWPPP provide sufficient erosion and sediment controls for the project site.
4.1.3	Construction Stormwater Site Inspections	• Self-monitoring program by site owner is required during construction. • Trained individuals employed/retained by owner shall provide written evaluation following a measurable storm event at a minimum 1/week. • Evaluation reports for the site must be available. • The city shall perform inspections and provide feedback and recommendations to evaluate the installation, implementation, and maintenance of control measures.	Record the total number of active construction site inspections conducted during reporting period.	The Construction Stormwater inspection and tracking section in the Construction Stormwater Program describes the requirements of the city to conduct construction site inspections. The City Engineer is responsible for coordination with staff to review erosion and sediment control plans and associated SWPPPs according to the NDEE Construction General Permit requirements. The City maintains a checklist of minimum required submittals for approving SWPPPs. In 2022 the city conducted site inspections for 5 construction sites and tracked them in a tracking spreadsheet for documentation.	Number of stormwater inspections tracked	Conduct site inspections for construction projects to document construction stormwater installation and maintenance compliance.	1. Every private building lot and land development receives municipal oversight inspection for erosion and sediment control an average of quarterly (routine) during the period of active construction. 2. Every public project with a CSW- NPDES permit completes routine stormwater inspections on a frequency required in the permit authorization (routine). 3. All active construction projects that have non-compliance with local construction stormwater requirements receive a follow-up inspection within one week. If the inspection is not completed, a reason must be given. 4. All information provided by the public about stormwater management on an active construction site, leads to the city to perform an inspection or a documented reason an inspection was not conducted. 5. Record soil stabilization conditions and if unresolved non-compliance exists for the project at time of close-out. Final Inspections will be required before municipal approval is given.

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
4.1.4	Required Standards	Prevent construction-related stormwaterpollution by following City policy and standards.	City of Beatrice – Construction Stormwater Programand Approved Stormwater Design Manual linksavailable on website and by request.	The Construction Stormwater Program contains construction stormwater education that reviews the need for proper sediment anderosion control selection and placement, SWPPP element standards, and provides a checklist for inspection guidance for City personnel.	Track and document handouts distributed at City of Beatrice community events	Distribute education and training information related to construction stormwater pollution.	The Construction Stormwater Program policy and procedures to enforce erosion and sediment control are two instruments that assist in construction stormwater management.
4.1.5	Erosion and Sediment Control Guide Booklet	Official guide for erosion and sediment control on construction sites within the jurisdiction limits of The City of Beatrice.	Available in the front waiting area of the Community Development Office.	The city provides in person messaging on the need for stormwater management and pollution prevention associated with construction activities within the City of Beatrice. As per the Construction Stormwater Program, general contractors and municipal employees are trained in topics such as erosion and sediment control BMPs, spill response plans, and illicit discharges. Additionally, the city maintains a website where the public can submit complaints for active construction projects.	Number of booklets handed out	Distribute education and training information related to construction stormwater pollution.	The Construction Stormwater Program and the policy and procedures to enforce erosion and sediment control are two instruments that assist in construction stormwater management.
4.1.6	Construction Stormwater Program Presentation	Prevent construction-related stormwater pollution by selecting and installing appropriate BMPs.	Currently delivered via an instructor lead session	The city continues to provide construction stormwater-based training as needed using the current Construction Stormwater Program presentation.	Document number attending annually	Advertise and schedule training sessions	Through the training sessions, identify areas where construction stormwater management has improved, or corrective actions have been reduced.

MCM 5

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
Minimum Control Measure 5: Post-Construction Stormwater Management							
5.1.1	Post-Construction Stormwater Treatment Facility (STF) - Enforcement Tracking	Initiate enforcement response plan investigation within seven days of identification of potential non-compliance. Open records are updated once per week with status and any added information until the issue is resolved.	Record responsible party, date enforcement initiated, reason for non-compliance or violation, status, enforcement steps taken to resolve, and final resolution of each instance of potential noncompliance with post-construction stormwater treatment.	The city will continue to track enforcement actions based on city staff inspections of STFs. The city will continue to ensure follow up inspections are performed when corrective actions or enforcement is needed during inspections. The city has contracted with a consultant to assist with updating the city's post-construction control approach and program elements. This activity is scheduled to be completed in 2025.	Track and document number of STFs constructed within the City of Beatrice annually	Conduct enforcement procedures for permanent stormwater treatment facility non-compliance and/or non-compliance	The city's effectiveness assessment includes documenting a minimal amount of enforcement actions associated with maintenance and operations of STFs within the city.
5.1.2	Post-Construction Stormwater Treatment Development Review	Record when STF design requirements for new development and redevelopment projects were not satisfied and required revision and resubmittal. Complete as-built record drawings received within one year of municipal approval for project completion.	Complete Stormwater Treatment Design Review Form for every new development and redevelopment project. Record date of STF Certification and as-built record drawings received with all required information including updated STF design tables if field modifications were made.	The city will continue to complete the Stormwater Treatment Design form for each new/re-development project and record the STF certificates and STF As-builts	Tracking the number of plans reviewed and approved	Conduct site plan review for stormwater treatment design compliance	The city's effectiveness assessment includes minimal returning of STF plans for revisions.
5.1.3	Stormwater Treatment Site Inspections	Record modifications made from design plans, engineer name providing certification, and anticipated date as-built record drawings will be submitted to the city. Record current condition, maintenance planned, and next anticipated applicant inspection date. Record final constructed condition at time of inspection, observations, and ongoing municipal inspection frequency before municipal approval. Conduct inspections within fourteen days following an information request submitted by the public and/or failure of the Owner to submit a routine self-inspection.	Record last date of inspection by Owner for STFs submitted or requested for review. Record last date of inspection by Municipality for STFs.	The city will continue to inspect post-construction STFs as required in the SWMP. Beatrice will be updating this BMP in the Stormwater Management Plan (SWMP) to better align with current program goals and activities.	Tracking the number of inspections conducted	Conduct site inspections for new development and redevelopment projects to document post-construction stormwater treatment facility (STF) installation and maintenance compliance.	The city's effectiveness assessment includes documenting repetitive maintenance needs for STF.

MCM 6

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
Minimum Control Measure 6: Pollution Prevention and Good Housekeeping							
6.1.1	Municipal Facility Maintenance Inspections	1. Conduct quarterly facility inspections annually for high priority facilities. 2. Conduct one facility inspection per permit-cycle for low priority maintenance facilities. 3.Document and follow up on corrective actions and track corrective actions not closed out within 30 days of documented action.	Record the total number of facility inspections conducted, document corrective actions and follow up resolutions, track open corrective actions during reporting period.	The city will continue the monthly inspections, annual inspections, and the 5-year FRCP updates as required by the permit.	1. Number of facility inspections. 2. Status of corrective actions identified, documented, and addressed for each maintenance facility. 3. Status of corrective actions unresolved within the 30-day period. 4. Dates and inspectors for four inspections per year (each high priority facility). 5. Dates and inspectors for one inspection per year (each low priority facility). 6. Number of interim corrective maintenance actions implemented. 7.Note reasons for unresolved corrective maintenance for each record.	The targeted measurable goal is to reduce or eliminate high priority facilities in the city through education and training on the importance of maintaining BMPs and following up in a timely manner on all corrective actions noted during inspections.	The City's assessment of effectiveness for this BMP includes tracking corrective actions and assessing trends on repeated corrections for the same facility BMPs for both high and low priority facilities.
6.1.2	Municipal Street Sweeping	1. Sweep public streets listed on the street maintenance plan at least two times during the year. 2. Parking lots on maintenance plan are swept at least once during the year. 3. Track requests for non-routine sweeping requests + track public complaints related to sweeping performed.	Report hours of equipment usage, number of lane miles of streets swept, and number and dates of parking lots swept.	The city will continue to perform street sweeping operations. The city will continue to assess performance with respect to collected solids and evaluate route scheduling and track public requests for sweeping. The city is responsible for disposal of the collected solids, another effective measure is the reduction in cost for disposal and route selection and timing of the sweeping activity.	1. Hours of equipment usage and number of lane miles of streets swept. 2. Number and dates of parking lots swept. 3. Frequency of public streets listed on street maintenance plan swept during the year. 4. Number of instances that non-routine sweeping requested. 5. Number of non-routine sweeping events provided.	The targeted Measurable Goal for this BMP is to note reduced/downward trend of the amounts collected annually.	The city's assessment of effectiveness for this BMP includes tracking a reduction of solids collected annually for both the street lanes miles and parking lots.

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
6.1.3	Municipal Storm Drain Maintenance	1. Storm drain inlets listed on the storm drain system maintenance plan map are cleaned once every five years. 2. Track requests for non-routine storm inlet requests and track public complaint inlet cleaning performed.	1. Report on hours of equipment usage and number of storm drains cleaned. 2. Properly dispose of storm inlet waste.	The city continues to evaluate their tracking and reporting procedures for solid waste collection and disposal related to storm drain clean out to assess effectiveness of scheduling, collection, disposal procedures and cost, and reporting. These assets are on a 5-year frequency maintenance.	1. Hours of equipment usage. 2. Number of storm drains cleaned. 3. Number of non-routine storm drain cleaning requested. 4. Number of non-routine storm drain cleaning provided.	The targeted measurable goal for this BMP is track reduction in removed sediments or trash.	The city's assessment of effectiveness for this BMP includes documenting reductions in the amounts sediment or trash removed for detention/retention assets as a means of evaluating whether the city's public outreach is positively impacting reductions in the amount of maintenance required.
6.1.4	Municipal Storm Drainpipe Maintenance	1. Storm drainpipes listed on the storm drain system maintenance plan are cleaned once every ten years. 2. Track requests for non-routine storm drainpipe requests and track public complaint storm drain cleaning performed.	1. Report hours of equipment usage and lineal feet of drainage system cleaned. 2. Properly dispose of storm drainpipe waste.	The city continues to evaluate their tracking and reporting procedures for solid waste collection and disposal to assess effectiveness of scheduling, collection, disposal procedures and cost, and reporting.	1. Hours of equipment usage and lineal feet cleaned. 2. Number of instances that non-routine storm drainpipe cleaning requested. 3. Number of instances that non-routine storm drainpipe cleaning events was provided.	The targeted measurable goal is to continue to evaluate process and look for more efficient and effective means/methods to maintain these assets.	The city's assessment of effectiveness for this BMP includes documenting reductions in the amounts sediment or trash removed from this asset as a means of evaluating whether the city's public outreach is positively impacting reductions in the amount of maintenance required.
6.1.5	Municipal Stormwater Detention/Retention Asset Maintenance	1. All detention/retention areas listed on the storm drain system maintenance plan are cleaned once every ten years. 2. Track requests for non-routine detention/retention asset maintenance requests and track public complaints for detention/retention asset maintenance performed.	1. Report hours of equipment usage and detention/retention areas cleaned and maintained. 2. Properly dispose of detention/retention facility waste when maintained.	The city does not currently own detention/retention ponds.	1. Hours of equipment usage and number of detention/retention areas cleaned and maintained. 2. Number of detention/retention areas cleaned. 3. Number of instances of non-routine detention/retention area cleaning requested. 4. Number of instances of non-routine detention/retention area cleaning provided.	The targeted measurable goal is to continue to track public/private detention assets to ensure maintenance is being performed.	The city's assessment of effectiveness for this BMP includes documenting reductions in the amounts sediment or trash removed for detention/retention assets as a means of evaluating whether the city's public outreach is positively impacting reductions in the amount of maintenance required.

BMP ID Number	BMP Title	Messages	Methods	BMP Activity Summary	Measurable Goal Metrics	Targeted Measurable Goals	BMP Effectiveness
6.1.6	Standard Procedures	Prevent pollution from municipal operations throughout the city.	City of Beatrice/Operations Water Quality Guide	1. City has developed a training module for in-person training events and tracks attendance with a signature page. 2. City has developed a pollution prevention poster posted at each facility.	Number of employees receiving training.	Deliver training to all Municipal Employee sectors identified to receive information for the reporting year.	The city's assessment of effectiveness for this BMP includes documenting a reduction in pollution, litter or waste collected throughout the year at municipal facilities.
6.1.7	Maintenance Facility Runoff Control Plans (FRCP)	Prevent pollution from municipal operations at municipal maintenance facilities.	Three Facility Runoff Control Plans (Street, Water, and Electrical Departments)	FRCPs are updated as required in the MS4 permit	Number of employees receiving training.	Deliver training to all Municipal Employee sectors identified to receive information for the reporting year.	The city's assessment of effectiveness for this BMP includes documenting a reduction in pollution, litter or waste collected throughout the year at municipal facilities.
6.1.8v	Supplemental Guides	Prevent pollution from municipal operations at municipal maintenance facilities.	City of Beatrice – Municipal Good Housekeeping Poster (located at each FRCP facility)	The city will continue to develop staff training for Good Housekeeping Measures and Pollution Prevention and provide training for staff on an annual basis. The city is evaluating ways to improve MS4 training opportunities for the stormwater management program.	Number of employees receiving training.	Deliver training to all Municipal Employee sectors identified to receive information for the reporting year.	The city's assessment of effectiveness for this BMP includes documenting a reduction in pollution, litter or waste collected throughout the year at municipal facilities.
6.1.9	Municipal Good Housekeeping Training	• Management staff for Parks and Open Space, Fleet and Building, Permanent Stormwater Treatment, and Storm Sewer Maintenance and Operation received training every even numbered calendar year. • Non-management, non-seasonal staff for Parks and Open Space, Fleet and Building, Permanent Stormwater Treatment, and Storm Sewer Maintenance and received training every odd numbered calendar year. • Seasonal staff for Parks and Open Space, Fleet and Building, Permanent Stormwater Treatment, and Storm Sewer Maintenance and received training every calendar year.	Deliver training to all Municipal Employee sectors identified to receive information for the reporting year.	The city will continue to develop staff training for Good Housekeeping Measures and Pollution Prevention and provide training for staff on an annual basis. The city is evaluating ways to improve MS4 training opportunities for the stormwater management program.	Number of employees receiving training.	Deliver training to all Municipal Employee sectors identified to receive information for the reporting year.	The city's assessment of effectiveness for this BMP includes documenting a reduction in pollution, litter or waste collected throughout the year at municipal facilities.