# City of Excelsior Springs MS4 Stormwater Management Plan (SWMP) <br> (Permit \#:MOR04C043 / 2021-2026) <br> December 22, 2021 

The purpose of this SWMP is to meet the requirements of the comprehensive general permit for small MS4's and document the BMP selections made under that permit for the City of Excelsior Springs. The City falls under the permit designation of "Group B" as it is a traditional small MS4 that serves a population of over 10,000 but less than 40,000 people. During annual reviews of this document, and the MS4 program as a whole, the City may choose to replace or modify ineffective BMPs with effective BMPs.

## MOR04C PART 4. MINIMUM CONTROL MEASURES

### 4.1 MCM 1. Public Education and Outreach on Stormwater Impacts

The City of Excelsior Springs has implemented a public education program to distribute educational materials to the community and/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. The public education and outreach program includes the following:
4.1.A Target specific audiences who are likely to have significant stormwater impacts.

The City of Excelsior Springs will target residents of their community that are served by the MS4. Additionally, the City will target education and outreach to the Excelsior Springs business community. Various subsets of each of these groups will be selected each year based on identified needs.

The target audiences may remain the same for the entire permit cycle or may change if the tracking and adaptive management reviews show a new target may be better for the MS4. Any changes will be stated and explained in the MS4 Stormwater Management Program Report.
4.1.B The City of Excelsior Springs will target specific pollutant(s) in their education program. The City has no specific pollutants of concern related to their residents and businesses, but will cover a variety of the most common urban stormwater pollutants within their public outreach and education program. Some example pollutants are listed below in Table II. Each year, the City will determine the best target pollutants for these broad audiences or a subset of each of them.

Table II- Example Pollutants/ sources (not limited to this list)

- Grass clippings \& leaf litter;
- Fertilizer \& pesticides;
- Litter, trash containment, balloon releases;
- Dumping of solid waste;
- Illegal disposal of household hazardous waste;
- Pet waste;
- Failing septic systems;
- Swimming pool discharge, including salt water pools;
- De-icing/ rock salt usage/ storage;
- Oil, grease, fluids from vehicles;
- Sediment runoff from construction/land disturbance;
- Unauthorized discharge of restaurant waste;
- Power washing;
- Unauthorized discharge of industrial waste;
- Vehicle washing; and
- Wash water/ grey water.
4.1.C The City of Excelsior Springs will utilize appropriate educational resources to be used as BMPs (materials, events, activities, etc.) in conjunction with the selected pollutants for the selected target audiences. The City may change BMPs during the permit cycle if determined appropriate through tracking and adaptive management reviews show a different BMP may be more effective for the MS4. Any changes will be reflected in the SWMP and explained in the MS4 Stormwater Management Program Report.

A more detailed description of any specific subset of the broader target audiences (residents and businesses) as well as any specific target pollutants addressed to these audiences will be documented in the annual MS4 Stormwater Management Program Report.

1. Using Table III, over the permit term the City will implement a minimum of the following, including the tracking and adaptive management processes:

Table III - Outreach and Education BMPs

|  | BMPs: | $\begin{array}{c}\text { Measurable goals } \\ \text { (The quantity or frequency } \\ \text { required to count as a full BMP) }\end{array}$ | $\begin{array}{c}\text { Tracking \& Adaptive } \\ \text { Management }\end{array}$ |
| :--- | :--- | :--- | :--- |
| 1 | $\begin{array}{l}\text { Information on the City } \\ \text { website; }\end{array}$ | $\begin{array}{l}\text { Maintain a webpage with up to date } \\ \text { information, \& working links. All } \\ \text { links shall be checked, and the page } \\ \text { will be updated as necessary at } \\ \text { minimum annually. Will be } \\ \text { maintained the entire year. }\end{array}$ | $\begin{array}{l}\text { The number of hits shall be } \\ \text { tracked. The City will use this to } \\ \text { see which messages get } \\ \text { reactions, and if certain } \\ \text { messages may need more } \\ \text { education. }\end{array}$ |
| 2 | $\begin{array}{l}\text { Social Media posts, social } \\ \text { media campaign; }\end{array}$ | $\begin{array}{l}\text { Post a minimum of four (4) times a } \\ \text { year, on a minimum of one social } \\ \text { media platform. The messages will } \\ \text { address ways attendees can minimize } \\ \text { or avoid adverse stormwater impacts } \\ \text { or practices to improve the quality of } \\ \text { stormwater runoff. The messages will } \\ \text { be seasonally appropriate. Will be } \\ \text { continued for the full year (quarterly). }\end{array}$ | $\begin{array}{l}\text { The number of views, } \\ \text { impressions, and other } \\ \text { interactions will be tracked. The } \\ \text { City will use this to see which } \\ \text { messages get reactions, and if } \\ \text { certain messages may need more } \\ \text { education. }\end{array}$ |
| 3 | $\begin{array}{l}\text { Maintain, or mark storm } \\ \text { inlet with "No Dumping - } \\ \text { Drains to Stream" or } \\ \text { similar message. }\end{array}$ | $\begin{array}{l}\text { Placard, stencil, or paint, a minimum } \\ \text { of 10\% of all known stormwater inlets } \\ \text { in the MS4 area per year. }\end{array}$ | $\begin{array}{l}\text { Number of inlets, the location of } \\ \text { the inlets and how they were } \\ \text { marked will be tracked. These } \\ \text { areas will be noted on MCM \#3 } \\ \text { dry weather screenings, and illicit } \\ \text { discharge investigations as a }\end{array}$ |
| method to determine if the |  |  |  |\(\left.\} \begin{array}{l}markings are effective or if areas <br>

could benefit from the markings.\end{array}\right\}\)
4.1.D The City of Excelsior Springs will create opportunities, or support activities that are coordinated by citizen groups, for residents and others to become involved with the Stormwater Management Program. The activities, (BMPs) must have an effort to impact stormwater runoff by improving water quality.

A more detailed description of any involvement BMPs completed and the metrics associated with them will be documented in the annual MS4 Stormwater Management Program Report.

Table IV Involvement BMPs

| BMPs | Measurable goals (The quantity or frequency required to count as a full BMP) | Tracking \& Adaptive Management |
| :---: | :---: | :---: |
| Stream/lake or Watershed clean-up events; Litter clean-up events such as Missouri Stream Team, Adopt-A-Spot, Adopt-AStreet, Adopt-A-Stream; | To be considered an event, the land area cleaned must be at minimum 2 acres, or 400 yards of stream/ streambank/ watershed, or 2 miles of road side. (These may be combined such as 1 acre of land and 200 yards of stream.) | Track the area or distance cleaned (by acre, yard or lane miles), the amount of waste removed (by tonnage, cubic yard, or Stream Team bag count) and the attendance. Use the waste measurements to determine if there are priority areas for litter entering stormwater, or areas for illegal dumping. |
| Ongoing yard waste program | Provide the service as an annual occurrence or at readily accessible location. | Track the amount collected. If educational information is being used in conjunction with this activity track for changes due to the education. Tracking can be used with illicit discharge tracking, to determine if the rate of this type of discharges or dumping were reduced. |
| Ongoing household hazardous waste (HHW) collection | Excelsior Springs is one of several communities that support both mobile collection stations and permanent collection sites for HHW within the Kansas City metro area. The City will promote this program on their web site and through their other IDDE education. | When residents of KC area drop off at any of the HHW locations (mobile or permanent), the waste volume is tracked by the City of their residency. Excelsior Springs will review the quarterly reports of the HHW collected at these sites and report on the amounts collected from their residents. |

4.1.E The City of Excelsior Springs will create or support the involvement BMP(s) in Section 4.1.D. The support provided for any of the BMPs in Section 4.1.D will be documented in detail in the annual MS4 Stormwater Management Program Report.
4.1.F Using adaptive management as required in parts 4.1.A.3.d and 4.1.B.1.c, the City of Excelsior Springs will review their Public Education and Outreach on Stormwater Impacts Program, at minimum, annually and update implementation procedures and/or BMPs as necessary within the requirements of this permit.

This will be conducted when preparing the annual MS4 Stormwater Management Program Report for submittal to the Department.

| Annual review of MCM 1 |  |  |  |
| :---: | :--- | :--- | :--- |
| Year <br> reviewed | Date of <br> review | Reviewer(s) | Were changes made and noted? |
| 2021 |  |  |  |
| 2022 |  |  |  |
| 2023 |  |  |  |
| 2024 |  |  |  |
| 2025 |  |  |  |

### 4.2 MCM 2. Public Participation

The City of Excelsior Springs has developed and implemented a comprehensive public participation program that provides opportunities for public participation in the development and oversight of the City's Stormwater Program.

This program provides opportunities for public participation of the City's permit renewal and, at a minimum, complies with any state and local public notice requirements. Additionally, the program provides opportunities for public participation in activities related to developing and implementing the Stormwater Management Program.

The public participation program, at a minimum includes the following:
4.2.A The City of Excelsior Springs held a public notice period for a minimum of thirty (30) days to allow the public to review the draft permit, and description of the MS4s Stormwater Management Program outline prior to the submission of the renewal application to the Department.
4.2.B As part of the public notice, the required items were posted on their website with a way to submit comments, along with the standard public notice methods for the City. No comments were received during the comment period.
4.2.C The City of Excelsior Springs held a public information meeting to provide information on, and describe the contents of, the proposed Stormwater Management Program. This meeting was advertised at least thirty (30) days prior to the public meeting.

1. As part of the notice of public meeting, the City posted the notice of the public information meeting including the date, time and location of the meeting on their web site, along with the standard public notice methods for the MS4. A copy of this notice is included with this plan.
2. The meeting was held within the service area of the MS4.

Dates of public notice: January 31, 2021
Dates of notice of meeting: January 31, 2021
Date of meeting: March 1, 2021
Location of meeting: Hall of Waters, Excelsior Springs
4.2.D The City of Excelsior Springs has a publicly available method to accept public inquiries, or concerns, and to take information provided by the public about stormwater and stormwater related topics. Citizens
can call, email or write a letter to Excelsior Springs Public Works with any concerns or questions about stormwater-related topics. All calls, emails or letters directed to Public Works on stormwater-related topics are documented in a hard copy log in the Stormwater Coordinator's office. Additionally, citizen complaints that require further investigation are logged in by the Public Works Administrative Assistant and a copy given to the Stormwater Coordinator.
4.2.E The City of Excelsior Springs does not utilize a stormwater management panel or committee. If this changes in the future, the City will provide opportunities for citizen representatives on the panel or committee and the attendance of the meetings will be recorded.
4.2.F The City of Excelsior Springs has a governing body in the City Council. The Public Works Director or the Stormwater Coordinator, who are both familiar with the MS4 Stormwater Program, will provide an update to the City Council, at minimum, annually with the status of, or updates on, the Stormwater Management Program, and compliance with the MS4 permit. The documentation of the date the City Council was updated, the method used to update them (typically appearing at one of their regular meetings) and the name of the representative who provided the update will be provided in the annual MS4 Stormwater Management Program Report.
4.2.I Using adaptive management, the City of Excelsior Springs will review their Public Participation Program, at minimum, annually and update implementation procedures as necessary within the requirements of their permit. This will be used to review how to best reach the public, the effectiveness of the mechanisms, the effectiveness of reaching the public and the City Council and if the community and City government are working together for water quality. Any additional events and/or BMPs will be acknowledged in the Stormwater Management Program report.

| Annual review of MCM 2 |  |  |  |
| :---: | :---: | :---: | :---: |
| Year being <br> reviewed | Date of <br> review | Reviewer(s) | Were changes made and noted? |
| 2021 |  |  |  |
| 2022 |  |  |  |
| 2023 |  |  |  |
| 2024 |  |  |  |
| 2025 |  |  |  |

### 4.3 MCM 3. Illicit Discharge Detection and Elimination (IDDE)

The City of Excelsior Springs has implemented, and enforces a program to detect and eliminate illicit discharges (as defined in 10 CSR 20-6.200 at 40 CFR 122.26(b)(2)) into the regulated MS4.

The illicit discharge detection and elimination program, at minimum, includes the following:
4.3.A A current storm sewer system map that is updated as needed to include features which are added, removed, or changed. This map is electronic (GIS).

This storm sewer map, shows at a minimum:

1. The location of all MS4 outfalls. Completed: This was completed in a previous permit cycle, but is being revised based on an updated definition of an "outfall". This work will be completed in 2022.
2. The names and locations of all receiving waters of the state that receive discharges from the MS4 outfalls. Completed: This information has been a part of the GIS base map data for many years.
3. The boundary of the regulated MS4 area. Completed: This information has been a part of the GIS base map data for many years.
4. The map is readily available and used by field staff as needed. Field staff have phones with access to the City's GIS through a phone application which incudes the location of all stormwater infrastructure.
4.3.B The City of Excelsior Springs recorded the sources of information used for the map and tracks:
$\boxtimes$ A numbering or naming system of all outfalls;
® Dates that the outfall locations were verified/ or last field survey;
$\boxtimes$ For newly added outfalls, the date that it was added to the storm sewer system.
In the past, the dates of last field verification and the date added to the system has not been tracked. This information will be added on data going forward.
4.3.C The City of Excelsior Springs effectively prohibits non-stormwater discharges into the City's storm sewer system and has implemented appropriate enforcement procedures and actions. The City of Excelsior Springs passed an update to the stormwater ordinances on April 21, 2014. The Section 407 Article VII of the City Code relates to this minimum control measure. Section 407.350 is related to discharge and connection prohibitions. Section 407.360 is related to the requirements related to the notification of spills. Copies of these codes can be found on the City's web site and through this link:
https://ecode360.com/29307335
If an illicit discharge or connection is found, the Stormwater Coordinator works to educate the party for removal. If this fails to resolve the issue, then the Public Works Director delegates the enforcement to the Code Enforcement Department. The Code Enforcement Official will issue a notice of violation and set a timeline for corrective action. If this timeline is not met, then nuisance abatement procedures would be followed. Additionally, if necessary, a fine can be levied under the ordinance.
4.3.D A dry weather field screening strategy has been developed for the City of Excelsior Springs.
5. The City of Excelsior Springs conducts outfall field assessments. The screening is conducted during dry weather conditions (a minimum of 72 hours after the last precipitation event) to check for the presence of a discharge. At a minimum, $60 \%$ of all outfalls will be screened during the permit cycle. Outfalls in priority areas, as determined under Section 4.3.H, will be screened annually. The number of outfalls screened each year (and percentage that this represents of the total number of outfalls) as well as how many of these outfalls are in "priority areas" will be provided in the annual MS4 Stormwater Management Program Report.
6. Dry weather screening is completed utilizing a checklist to ensure a complete inspection of each outfall, enhance consistency, and to track the field screening. The inspection and investigation reports/photos to the outfall or stormwater structure/pipe are stored on the Stormwater Coordinator's computer (Public Works shared drive). When discharge is present, the checklist notes the following general observations and physical characteristics at a minimum:

- Date and time;
- Weather conditions and temperature (air \& water);
- Color of discharge;
- Estimate of flow rate (this may be noted qualitatively);
- Odor;
- Surface scum, algal bloom, floatables or oil sheen present;
- Deposits or stains (note the color);
- Turbidity (may be noted qualitatively);
- Stream impact including vegetation, fish, wildlife;
- Length of impacted stream; and
- Notes of an obvious source of flow (such as lawn irrigation, etc.)

In the first permit year, the dry weather field screening checklist will be reviewed to ensure it meets current permit requirements.
4.3.E The City of Excelsior Springs maintains diagnostic monitoring procedures to detect and investigate unknown non-stormwater flows as part of the dry weather screening program.
4.3.F The City of Excelsior Springs maintains procedures for tracing the source of an illicit discharge. If initial screening indicates that a dry weather discharge contains pollutants, or if an illicit discharge is suspected from another reporting method, the source will be traced following the procedure below:

1. Utilizing the stormwater system map (within GIS), inspect the next structure upstream of the outfall to determine if the discharge is somewhere in the last enclosed segment.
2. Continue upstream as long as the discharge is present within the structures until you isolate where the discharge is entering the system.
3. While tracing within the system, look for possible sources of the discharge such as active construction/remodeling sites, sprinkler systems running (or obviously run recently), locations of sanitary sewers in the area, etc. If a source can be identified, note it on the screening form. If it is anything other than sprinkler water or air conditioning condensate, proceed with enforcement actions applicable to the type of source.
4. If the discharge appears to be potable water or wastewater in nature, contact the Utilities Department Maintenance Supervisor to assist with the investigation to determine if there is a sewage leak or if it is a possible potable water leak. CCTV inspection of sanitary and storm sewer lines may be utilized. Confined space entry should only be used by properly trained personnel and only when necessary.

Once the source of an illicit discharge or connection has been located and verified, the source shall be removed through the enforcement procedures listed below.
4.3.G The City of Excelsior Springs maintains procedures for removing the source of the discharge. After locating the source, the pollutant and source will be removed.

The exact procedure will depend on the source and the circumstances, but generally the City staff will follow the procedure below:

1. If the illicit discharge is identified as being from a construction site that does not fall under the land disturbance permitting requirements, notify the Stormwater Coordinator that the site has been identified as a possible source of illicit discharge and even though it is not required to have a land disturbance permit, the contractor and property owner need to be notified that cleanup may be
needed and further discharges will not be allowed. This includes improper handling of waste from remodeling projects that might not include land disturbance activities.
2. If the illicit discharge is identified as being from a construction site that does fall under the land disturbance permitting requirements, notify the Building Inspector for residential project or the Stormwater Coordinator for commercial projects that there is a potential violation of the land disturbance permit and that a compliance inspection will need to be completed. If a violation is verified, follow the enforcement actions outlined within the ordinance.
3. If the illicit discharge is identified as sewage from a public sanitary sewer, notify the Utilities Maintenance Foreman so that a repair can be made.
4. If the illicit discharge is identified as potable water that is likely from a water leak, notify the Utilities Maintenance Foreman and work to address with them or the responsible property owner.
5. If the illicit discharge can be isolated to an illicit connection, notify the Stormwater Coordinator and the Code Enforcement Officer to notify the property owner that an illicit connection is in place and needs to be removed pursuant to the ordinance or it will be deemed a nuisance and the abatement procedures will begin accordingly.
6. If the source of the illicit discharge can be determined and a responsible party identified, then notify the Stormwater Coordinator and the Code Enforcement Officer to notify the property owner that the illicit discharge has taken place and needs to be cleaned up or it will be deemed a nuisance and the abatement procedures will begin accordingly.
7. If the source of the illicit discharge cannot be determined and/or a responsible party identified, then notify the Stormwater Coordinator and the Street Maintenance Foreman to issue a work order to have City staff clean up the discharge to the extent practicable. If the source appears to be broader (such as yard chemical runoff), consider targeting an educational campaign to the subwatershed properties.
8. If the illicit discharge cannot be cleaned up by City staff, the following environmental cleaning company will be called in to perform the cleanup: Heritage-Crystal Clean, Inc. 877-938-7948
4.3.H In order to prevent further illicit discharge, the City of Excelsior Springs will identify priority areas for more regular dry weather field screening. Annually, the City will evaluate this priority area list and/or map and update as necessary to reflect changing priorities. The areas identified as "priority" and why they were designated as such will be documented in the annual MS4 Stormwater Management Program Report.

Examples of the types of areas that might be consider "priority" for dry weather field screening are:

- Areas with evidence of ongoing illicit discharges;
- Areas with a past history of illicit discharges;
- Certain land use influencing stormsewer/ proximity of potential pollutant sources;
- Areas of higher population density;
- Neighborhoods with onsite sewage systems;
- Areas with known litter or dumping issues;
- Areas with large or increased number of citizen complaints; and
- Industrial areas
4.3.I The City of Excelsior Springs maintains written procedures for implementing the IDDE Program, including those components described within this section, to ensure program continuity and consistency.
4.3.J The City of Excelsior Springs will conduct investigations in response to field screening discoveries, spills, or in response to complaints from the public, municipal staff, or adjacent MS4s. The City will:

1. Immediately respond to all illicit discharges, including spills, which are determined to constitute a threat to human health, welfare, or the environment.
2. Investigate within five (5) business days, on average, any complaints, reports or monitoring information that indicates a potential illicit discharge which does not constitute a threat to human health, welfare or the environment.
4.3.K The City of Excelsior Springs has procedures for appropriate enforcement, this may include fines, the ability to collect cleanup and abatement costs, and actions to ensure that the City's illicit discharge ordinance is being implemented.

If an illicit discharge or connection is found, the Stormwater Coordinator works to educate the party for removal. If this fails to resolve the issue, then the Public Works Director delegates the enforcement to the Code Enforcement Department. The Code Enforcement Official will issue a notice of violation and set a timeline for corrective action. If this timeline is not met, then nuisance abatement procedures would be followed. Additionally, if necessary, a fine can be levied under the ordinance.
4.3.L The City of Excelsior Springs maintains a centralized system, to track dry weather field screenings, spills, incidents, and investigations. These are kept in the Stormwater Coordinator's office and on the shared Public Works computer drive.
4.3.M The City of Excelsior Springs informs public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, in conjunction with part 4.1 and part 4.6 of their permit (MCM \#1 and MCM \#6). Excelsior Springs Public Works staff are trained on illicit discharge detection and elimination as well as proper waste management through their annual training. Businesses and the general public are informed about the hazards of illicit discharges and improper disposal of wastes through the public education mechanisms discussed under MCM \#1.
4.3.Q The City of Excelsior Springs maintains a training program for all municipal field staff, who, as part of their normal job responsibilities, may come into contact with or otherwise observe an illicit discharge or illicit connection to the storm sewer system. Sign-In sheets with the names and department of the attendees, the topics covered, and the training provider or other method of training will be kept in the City's electronic filing system and made available to MDNR upon request. A summary of the training will be provided in the annual Stormwater Management Program Report.

Reviews of the training effectiveness will be considered after municipal site inspections or after an illicit discharge incident occurs. If a certain department or facility did not perform the way they were trained, or if an issue arises that was not handled properly, the City will consider if the training is enough or is ineffective. The City will consider ways to survey or test staff to see if the training is effective. The outcomes of these reviews will be included in the annual Stormwater Management Program Report.
4.3.R Using adaptive management the City will review their IDDE Program, at minimum, annually and update implementation procedures as necessary. This data will be used to continuously evaluate the effectiveness of each BMP and the implementation of each BMP. Any additional BMPs will be acknowledged in the Stormwater Management Program Annual Report.

| Annual review of MCM 3 |  |  |  |
| :---: | :--- | :--- | :--- |
| Year being <br> reviewed | Date of <br> review | Reviewer(s) | Were changes made and noted? |
| 2021 |  |  |  |


| 2022 |  |  |  |
| :---: | :--- | :--- | :--- |
| 2023 |  |  |  |
| 2024 |  |  |  |
| 2025 |  |  |  |

### 4.4 MCM 4. Construction Site Stormwater Runoff Control

The City of Excelsior Springs has developed, implemented, and enforces a program to reduce pollutants in any stormwater runoff to their MS4 from construction activities that result in land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre is included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.
4.4.A The City of Excelsior Springs has an ordinance to require construction site runoff control BMPs at construction/land disturbance sites greater than or equal to one (1) acre or less than one acre if the construction activity is part of a larger common plan or development or sale that would disturb one acre or more. The ordinance includes sanctions which are designed to ensure compliance, to the extent allowable under State and local law.

The City of Excelsior Springs passed amendments to Section 407, Article V of the City Code on April 21,2014 . This portion of the code outlines construction site runoff control requirements specifically relate to developments and redevelopments that disturb greater than one acre and further included sites disturbing less, but that were part of a greater plan or sale. The code also requires a sketch plot plan (not necessarily prepared by an engineer) for sites less than an acre of disturbance showing flow direction and stormwater BMPs. A copy of this code can be found at the following link:
https://ecode360.com/29307281
4.4.B The City of Excelsior Springs reviews pre-construction plans.

The reviews include:
区 Evaluate threats to water quality
a) Soil erosion potential;
b) Site slope;
c) Project size and type;
d) Sensitivity of receiving waterbodies;
e) Discharge flow type (pipe or sheet flow);
f) Location of discharge point in relation to receiving water;
g) Proximity of the site to receiving waterbodies; and
h) Other factors relevant to the MS4 service area.
$\boxtimes$ A plan review checklist is used to ensure consistency and completeness (the City Stormwater Consulting Engineer keeps a copy of this checklist for her use and can make it available upon request to MDNR).
® Requirements for construction site operators to select, install, implement, and maintain appropriate stormwater control measures. This includes temporary BMPs throughout the life of the land disturbance, and permanent BMPs which remain on site as required by local codes and ordinances.
区 Consideration of ways to minimize disturbed areas through actions such as, phased construction
requirements, temporary seeding or sodding, or erosion mats to exposed areas.
$\boxtimes$ Requirements for construction site operators to control construction-site waste that may cause adverse impacts to water quality. (Trash, concrete wash-out, etc.). Section 407.260 requires a Stormwater Pollution Prevention Plan that in addition to addressing erosion and sediment control, must "..address other wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste." The code can be viewed at the following link: https://ecode360.com/29307310
4.4.C The City of Excelsior Springs has established authority for site inspections and enforcement of control measures. To the extent allowable by state, federal, and local law, the City has implemented procedures for inspecting construction/land disturbance projects.

The construction site runoff control program:
$\boxtimes$ Sites are not prioritized for inspection. Sufficient staff exists for regular oversight inspection of ALL active constructions sites that fall under the applicability of the construction site runoff control ordinances.
$\boxtimes$ Construction site inspections assess compliance with the construction site storm water runoff control ordinance, and other applicable ordinances.
$\boxtimes$ The inspections evaluate any structure that functions to prevent pollution of stormwater or to remove pollutants from stormwater and use enforcement polices to require BMPs are implemented and effective.
$\boxtimes$ Final inspection, upon completion of the land disturbance and prior to final approval of construction project ensures all disturbed areas have been stabilized and that all temporary erosion and sediment control measures are removed.
$\boxtimes$ The inspections conducted by the City staff are documented on a paper inspection form. The inspectors check on the self-inspections which are conducted by the construction site operators. The completed inspection forms for commercial and infrastructure permits are kept in the project folders and an electronic copy of the inspection form is kept by the Stormwater Coordinator on the shared Public Works computer drive. The Building Inspector utilizes the same inspection checklist for residential construction and keeps scanned copies of the inspection forms within iWorks permitting software.
4.4.D The construction site runoff control program includes an established, escalating enforcement policy that clearly describes the action to be taken for violations.

The City has multiple sanctions/enforcement mechanisms at its disposal for enforcing the construction site runoff control ordinances. These include education, verbal and written warnings, stop work orders, permit suspension, declaration of nuisance/nuisance abatement and fines. Section 407.420, Article IX of the City Code has enforcement procedures including escalation of enforcement based on the number and types of violations. This code can be viewed at the following link:
https://ecode360.com/29307397
Also, the ability for a fine to be levied on any kind of violation of the stormwater ordinance can be found in Section 407.430 which can be viewed at the following link:
https://ecode360.com/29307408
4.4.E The City of Excelsior Springs requires the construction site operator to follow the self-inspection requirements of their MDNR land disturbance permit. The City grading permit is not issued until the contractor provides a copy of the MDNR permit. Operators can utilize their own inspection checklist
for these self－inspections．In the past，the City has not reviewed these self－inspections．Inspectors will be trained in the first permit year to add this review to their inspection procedures．

4．4．F The City of Excelsior Springs maintains an inventory of active public and private land disturbance sites， as defined in Section 4.4 of their MS4 permit．This is supplemented with records such as a plan review documentation and email correspondence．Residential permits are tracked within iWorks by the Building Inspector．Other grading permits issued by Public Works（commercial and infrastructure）are tracked in a hard copy log kept at Public Works．These lists of active sites are available to MDNR upon request．

The inventory contains：
$\boxtimes$ Relevant contact information for each project（e．g．，tracking number，name，address，phone，etc．）；
区 Size of the project／area of disturbance；

The City of Excelsior Springs has limited numbers of active permits and therefore has no need for inspection prioritization．All permits are reviewed no less monthly during construction．

4．4．G The City of Excelsior Springs retains completed inspection forms for commercial and infrastructure permits in the project folders and an electronic copy of the inspection form is kept by the Stormwater Coordinator on the shared Public Works computer drive．The Building Inspector utilizes the same inspection checklist for residential construction and keeps scanned copies of the inspection forms within iWorks permitting software．

The City of Excelsior Springs will make these inspection records available to MDNR upon request．
The tracking contains at a minimum：
区 Inspection dates and time；
区 Inspector name；
区 Inspection findings；and，
® Follow up actions and dates，including corrective actions and enforcement actions．
4．4．H The City of Excelsior Springs will review the Stormwater Management Program including ordinances， permitting procedures，review procedures，inspection procedures and enforcement procedures to ensure compliance with the MS4 permit requirements．Any changes necessary to be in compliance with this permit will be completed within the first year following this permit issuance．

The inventory of active site permits will be updated as new projects are reviewed and projects are completed．

## 4．4．I N／A

4．4．J The Stormwater Management Program includes procedures for the City to receive and consider information submitted by the public about land disturbance sites．This is done in combination with Section 4．2．D of this plan．Citizens can call，email or write a letter to Excelsior Springs Public Works with any concerns or questions about land disturbance sites．All calls，emails or letters directed to Public Works on stormwater－related topics are documented in a hard copy log in the Stormwater Coordinator＇s office．Additionally，citizen complaints that require further investigation are logged in by the Public Works Administrative Assistant and a copy given to the Stormwater Coordinator．
4.4.K The City of Excelsior Springs provides, or supports access to, construction site runoff control training for City inspectors and plan reviewers at minimum once during the permit cycle. This education will be tracked or documented. Sign-In sheets with the names and department of the attendees, the topics covered, and the training provider or other method of training will be kept in the City's electronic filing system and made available to MDNR upon request. A summary of the training will be provided in the annual Stormwater Management Program Report.
4.4.L The City of Excelsior Springs provides inspectors with written procedures outlining the inspection and enforcement procedures to their inspectors to ensure consistency among the inspections. This is accomplished by providing a copy of the Land Disturbance Inspection Form and training staff on its usage. The City's ordinances outline the procedures for enforcing the ordinances as it relates to construction site runoff.
4.4.M Using adaptive management, the City of Excelsior Springs will review, at minimum annually, their Construction Site Stormwater Runoff Control Program and evaluate the ordinances, review procedures, inspection procedures, enforcement procedures, receipt of public information procedures, and effectiveness of training procedures to ensure compliance with these requirements and determine if changes are needed.

| Annual review of MCM 4 |  |  |  |
| :---: | :--- | :--- | :--- |
| Year being <br> reviewed | Date of <br> review | Reviewer(s) | Were changes made and noted? |
| 2021 |  |  |  |
| 2022 |  |  |  |
| 2023 |  |  |  |
| 2024 |  |  |  |
| 2025 |  |  |  |

This annual review will include but is not limited to the following.
$\boxtimes$ Evaluating the most common violations, how the violations are handled, how many are escalated;
$\boxtimes$ If the education program can assist in reducing violations;
$\boxtimes$ Determining if the site plans match the sites when violations arise or if additional items need to be evaluated at plan review;
$\boxtimes$ Assessing public complaints being addressed in a timely manner; and
$\boxtimes$ Evaluating if the inspections thorough and consistent across different sites.

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

The City of Excelsior Springs has developed, implemented, and enforces a program to address the quality of long-term stormwater runoff from new development and redevelopment projects that disturb equal to and greater than one acre, including projects less than one acre that are part of a larger common plan of development or sale that would disturb one acre or more and that discharge into the regulated MS4.
The program ensures that controls are in place that have been designed and implemented to prevent or minimize water quality impacts
4.5.A The City of Excelsior Springs maintains and utilizes ordinances to address post-construction runoff from new development and redevelopment projects to the extent allowable under state or local law for sites equal to or greater than one acre including projects less than one acre that are part of a larger common plan of development or sale. These are outlined in more detail in Section 4.5.B below.
4.5.B The City of Excelsior Springs has developed a strategy to minimize water quality impacts. This includes a combination of structural and/or non-structural controls (BMPs) appropriate for their community.

1. The ordinances related to structural post-construction controls, or water quality facilities, include technical performance and/or design standards to control post-construction stormwater discharges. These post-construction stormwater standards are for designing, installing, implementing, and maintaining stormwater control measures include, but are not limited to BMPs that; infiltrate, evapo-transpire, harvest, detain, retain, and/or reuse stormwater. The design standards consider parameters such as; site discharge volume, rate, duration, and frequency for new development and redevelopment sites with the intent to minimize the impact of stormwater runoff on water quality. Structural controls include but are not limited to; extended detention basins, grass swales, bio-retention, permeable surfaces, sand filter basins, stormwater planters, proprietary BMPs.

## - Detention/Treatment Requirements and Design Standards

The City of Excelsior Springs passed an update to the stormwater ordinances on April 21, 2014. Chapter 407, Article IV, outlines the requirements for design standards related to stormwater management. The section highlights the requirements for on-site detention/retention and treatment through the development of a post construction management plan. In addition, Section 407.150(C) requires adhereance to the design standards set forth in KC APWA Section 5600 and the MARC BMP Manual.

Chapter 407, Article IV: https://ecode360.com/29307210
KC-APWA Section 5600:
http://kcmetro.apwa.net/content/chapters/kcmetro.apwa.net/file/Specifications/APWA560 0.pdf

## MARC BMP Manual:

http://kcmetro.apwa.net/content/chapters/kcmetro.apwa.net/file/Specifications/BMPManu al_Oct2012.pdf
2. Non-structural controls include but are not limited to; stream buffers, no mow zones, preservation of open spaces, tree preservation, impervious cover reduction, land use planning, and low impact development.

The ordinance(s) or regulatory mechanism(s) for non-structural Post-Construction controls, shall include:

## - Stream Buffer Requirements

The City of Excelsior Springs passed an update to the stormwater ordinances on April 21, 2014. The revisions highlighted the use of stream buffers as a filtration, infiltration and
stabilization Best Management Practice (BMP). The applicable part of the code can be found at the following link:
https://ecode360.com/29307227

## - Wetland Protection

The streamside and riparian buffer zone requirements (see above) provide a de facto wetland protection as many wetlands are located near stream corridors. The City cooperates with the Army Corps of Engineers regulation of jurisdictional wetlands. The site plan requirements set forth in the APWA 5600 plan requirements standards requires the identification of wetlands on any proposed development plans.
Section 5609.7 (must show man-made and natural topographical features which would include wetlands):
http://kcmetro.apwa.net/Content/Chapters/kcmetro.apwa.net/File/Specifications\%2FAP WA\%205600_16FEB2011\%20minor\%20correction\%20pg\%2067.pdf
4.5.C Pre-construction plan review is conducted by the City to assess site characteristics at the beginning of the construction site design phase to ensure adequate planning for stormwater program compliance. The structural or non-structural controls chosen are intended to protect sensitive areas, minimize the creation of stormwater pollution, and effectively reduce stormwater pollution. This is achieved by reasonably mimicking pre-construction runoff conditions on all affected new development projects. The plan review process uses a checklist. This is the same checklist utilized in the plan review for MCM \#4. The plan review process evaluates the usage of both non-structural and structural BMPs. A plan review checklist is used to ensure consistency and completeness (the City Stormwater Consulting Engineer keeps a copy of this checklist for her use and can make it available upon request to MDNR).
4.5.D The City of Excelsior Springs has ordinances to ensure adequate long-term operation and maintenance (O\&M) of the selected BMPs, including agreements between the City and other parties such as postdevelopment landowners. The City of Excelsior Springs passed an update to the stormwater ordinances on April 21, 2014. Chapter 407, Article VI includes specific requirements for owners of BMP's related to ongoing operation and maintenance. An enforcement response plan is also outlined in Section 407.310 .
https://ecode360.com/29307317
Additionally, the City requires the owner of any development that utilizes structural Best Management Practices to execute a "Stormwater Management/BMP Facilities Maintenance Agreement for On-Site Facilities". This document is recorded at the Ray or Clay County Courthouse (based on location of the development) and runs with the land. It outlines the inspection and maintenance responsibilities of the owner and outlines the consequences of failing to maintain the stormwater management systems. The template for this agreement is available to MDNR upon request.
4.5.E The City of Excelsior Springs will inspect each water quality structural and non-structural water postconstruction BMP according to the following at minimum:
$\boxtimes$ A minimum of one (1) inspection will be conducted during construction, and one (1) inspection before the site is finalized, to verify water quality facilities are built as designed and any applicable boundaries or practices for non-structural BMPs are being observed. This may be conducted in combination with MCM 4 inspections. The City inspectors have access to the approved plans to ensure proper installation (they are given paper copies of the plans to take to the field).
$\boxtimes$ A minimum of once in the first three years after the installation by City staff.
$\boxtimes$ Annually by the owner or operator of the post-construction BMP as outlined in the BMP
Maintenance Agreement. This inspection report will be submitted to the City for evaluation and review. $\boxtimes$ The City will inspect a minimum of $60 \%$ of all water quality post-construction BMPs within the five year permit cycle. This will include installations with ongoing or open enforcement issues.

The City of Excelsior Springs has developed a written policy and procedure for the inspection of postconstruction best management practices. Staff utilizes a hard copy form for post-construction BMP inspections (Stormwater Basin Annual Inspection Form). At this time, nearly all of the BMPs are some kind of detention basin or rain garden. If other types of BMPs are installed, staff will follow the inspection procedures custom to the BMP.

All inspections are documented on a written form with sufficient photographs taken. The inspection forms are scanned in by the Stormwater Coordinator and saved with the photos on the shared Public Works computer Drive. These inspection reports are available to MDNR upon request. A summary of these inspections will be included in the annual report.
4.5.F The City of Excelsior Springs maintains a plan designed to ensure compliance with the MS4's postconstruction water quality ordinance mechanism. This plan includes escalating enforcement mechanisms the City will use to ensure compliance.

The City of Excelsior Springs has the authority to initiate a range of enforcement actions to address the variability and severity of noncompliance. During construction, the enforcement actions follow those listed in Section 4.4.D. After construction is completed, the post-construction BMPs are regularly inspected to verify that they are being properly maintained and are functioning as designed. If violations are found, the responsible parties listed in the maintenance covenant are notified. Depending on the degree and duration of the violation, the effect of the violation on the receiving water, the compliance history of the owner/operator and the cooperation of the owner/operator, inspectors will determine the level of enforcement required in consult with the Stormwater Coordinator and/or Public Works Director.

If an issue with a post-construction BMP is discovered, the Stormwater Coordinator will work to educate the responsible party for corrective action. If this fails to resolve the issue, then the Public Works Director will delegate the enforcement to the Code Enforcement Department. The Code Enforcement Official will issue a notice of violation and set a timeline for corrective action. If this timeline is not met, then nuisance abatement procedures would be followed. Additionally, if necessary, a fine can be levied under the ordinance.
4.5.G Enforcement actions will be timely in order to ensure the actions are effective. City staff will begin enforcement actions within thirty (30) days of discovering a violation. Minor violations such as the need to have a facility mowed, litter or sediment removed will typically be given 30 days to complete the maintenance required. More significant maintenance issues (clogged or broken outlet structures, varmint hole damage, erosion damage) may be given longer time frames based on the type of work needed and weather dependence.

The City maintains the following possible sanctions for enforcement of the requirements on long-term stormwater BMPs:

1. Education regarding the BMP and verbal warnings;
2. Written warnings or notice of violation (this includes email notification);
3. Property lien through nuisance declaration/abatement; and
4. Fines.

4．5．H The City of Excelsior Springs maintains an inventory tracking the water quality post－construction BMPs．This inventory is maintained within the City＇s GIS system and is updated as new BMPs are constructed．

The inventory contains：
$\boxtimes$ Relevant contact information for each project（e．g．，tracking number，name，address，phone，etc．）；
区 The type of post－construction BMP；
® Applicable operations and maintenance documents；
® Date the City approved the construction site plan；and，
$\boxtimes$ If the water quality facility is owned or operated by the City，the tracking will also include any maintenance，such as sediment clean－out or replanting．

The GIS provides the location of existing post－construction BMPs．The other information（if available） is kept in the project folders．

4．5．I The City of Excelsior Springs also tracks the post－construction BMP inspections．The inspection records are stored by the Stormwater Coordinator on the shared Public Works computer drive．These records may be supplemented with written or email correspondence．The City will make these inspection records available to MDNR upon request．

The tracking contains at a minimum：
区 Inspection dates and time；
区 Inspector name；
区 Inspection findings；and，
® Follow up actions and dates，including corrective actions and enforcement actions．
4．5．J The City will evaluate the ordinances，permitting procedures，review procedures，inspection procedures and enforcement procedures to ensure compliance with the permit requirements and determine if changes are needed．Any changes necessary to be in compliance with the MS4 permit will be completed within the first two（2）years of permit issuance．

The inventory of water quality facilities is updated as new facilities are added and projects are completed．

## 4．5．K N／A

4．5．L The City of Excelsior Springs will provide appropriate training for City inspectors at minimum once every permit cycle．This may include Green Infrastructure training，or specific operation of proprietary post－construction BMPs．The City will provide overall training to explain the function of both structural and non－structural post－construction water quality BMPs．Sign－In sheets with the names and department of the attendees，the topics covered，and the training provider or other method of training will be kept by the Stormwater Coordinator on the shared Public Works computer drive and made available to MDNR upon request．

4．5．M Using adaptive management，the City of Excelsior Springs will review，at minimum annually，their Post－ Construction Site Stormwater Management in New Development and Redevelopment Program and evaluate effectiveness of the overall program and determine if changes are needed．

| Year being <br> reviewed |  |  | Date of <br> review |
| :---: | :--- | :--- | :--- |
| 2021 |  | Reviewer（s） | Were changes made and noted <br> above？ |
| 2022 |  |  |  |
| 2023 |  |  |  |
| 2024 |  |  |  |
| 2025 |  |  |  |

This annual review may include but is not limited to the following．
Q Reviewing the number and types of developments；
凹 How many BMPs were installed／inspected；
囚 The amount of watershed area being treated；
The types of violations found and how frequently；and
区 Evaluating how education could improve the effectiveness of the program．
4．6．MCM 6．Pollution Prevention／Good Housekeeping for Municipal Operations
The City of Excelsior Springs has developed and implemented an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations．

4．6．A The City maintains and utilizes an employee training program for MS4 municipal operations staff．The training will be given，at a minimum，annually to all MS4 staff who work with material handling，at MS4 owned or operated vehicle／equipment maintenance areas，storage yards，and material storage facilities．This may be broken up into staff units，or by applicable topics．Sign－In sheets with the names and department of the attendees，the topics covered，and the training provider or other method of training will be kept in the City＇s electronic filing system and made available to MDNR upon request．

4．6．B The training will be used to prevent and reduce stormwater pollution．
The training will cover a minimum of the following topics／activities：
1．Vehicle and equipment washing
2．Fluid disposal and spills
3．Fleet，equipment，and building maintenance
4．Park and open space maintenance procedures（including fertilizer，herbicide，pesticide application）
5．New construction，road maintenance and land disturbances
6．Stormwater system maintenance
7．MS4 operated salt and de－icing operations
8．Fueling
9．Solid waste disposal
10．Street sweeper operations
11．Illicit discharges
The topics covered each year and the number of staff trained in each department will be documented in the annual report．
4.6.C The City of Excelsior Springs will:

The City of Excelsior Springs has a policy and procedure for employee training. It outlines how employees will receive initial training, ongoing public education, training related to specific standard operating procedures, and training on specialized tasks (such as inspection and enforcement for selected staff).

The annual report will contain a summary of training received by City employees each year. Copies of Sign-In sheets with the names and department of the attendees, the topics covered, and the training provider or other method of training will be kept in the City's electronic filing system and made available to MDNR upon request.

The City maintains materials to use in the training program. Primarily these are the Good Housekeeping Standard Operating Procedures (SOPs). Other educational materials from the EPA, MDNR, MARC and other organizations will be utilized as needed.

The training for employees covers the various sources of pollutants that their municipal operations can potentially discharge. The training also discusses the staff's role in illicit discharge detection and elimination (crossing over into MCM \#3). It also covers construction site runoff control from City projects (crossing over into MCM \#4). All applicable training topics are covered once annually. They are not typically broken up seasonally.
4.6.D The City of Excelsior Springs will maintain a list of all municipal operations/facilities that are impacted by this operation and maintenance program.

| FACILITY | ADDRESS |
| :---: | :---: |
| Public Works Maintenance | 1290 S. Marietta Street |
| Parks Maintenance | 1301 S. Marietta Street |
| Golf Course | 1201 E. Golf Hill Drive |
| Airport | 1203 E. Golf Hill Drive |
| Community Center | 103 E. Water Street |
| Hall of Waters (City Hall) | 201 E. Broadway Street |

4.6.E The City of Excelsior Springs maintains a list of industrial facilities the City owns or operates which are subject to NPDES permits for discharges of stormwater associated with industrial activity. The list includes the permit number for each facility.

NPDES permitted facilities not owned or operated by the permittee are not required to be part of the list, however the City will be familiar with all such facilities in their MS4 service area as they may signify a priority area for the IDDE program.

| FACILITY | PERMIT NUMBER |
| :--- | :--- |
| Excelsior Springs Wastewater Treatment <br> Facility | \#MO-0028843 |

4.6.F The City of Excelsior Springs maintains controls for reducing or eliminating the discharge of floatables and pollutants from municipal facilities listed in Section 4.6.D and 4.6.E. City staff follow Standard Operating Procedures. The SOPs that include information about the proper handling of floatables and other pollutants from municipal facilities include:

- Streets, Roads, Highways and Parking Lots:

Street Sweeping SOP
Salt/Sand Storage and Application SOP
Metrics related to these municipal operations will be tracked and reported on annually. Street sweeping will be tracked by the number of lane miles swept each year. Salt/brine and any other deicer usage will be traced based on the amount purchased each year.

- Maintenance and Storage Yards/Shops \& Waste Transfer Stations:

Good Housekeeping (General SOP)
Building Maintenance SOP
Vehicle/Equipment Storage SOP
Vehicle/Equipment Washing SOP
Salt/Sand Storage and Application SOP
Weed and Pest Control SOP
Mowing and Irrigation SOP

- Inspection and Maintenance of the MS4:

Catch Basin/Storm Drain System/Outfall Repair SOP
Catch Basin/Inlet Cleaning SOP
Vactor Truck Waste Handling/Storage SOP
Erosion and Sediment Control SOP
Illicit Discharge Detection and Elimination SOP

- Paints, Solvents, Petroleum Products and Petroleum Waste Products:

Painting SOP
Parts Cleaning and Storage SOP
Petroleum and Chemical Handling, Storage and Disposal SOP
Fueling SOP

- Spill Prevention, Control and Management:

Spill Prevention and Control SOP
Additionally, each municipal maintenance facility has an individual SWPPP the discusses the pollutant sources at each facility such as materials used and stored on-site. Any structural controls that are utilized at each facility to reduce or prevent pollutants from entering waters of the state are also listed in the SWPPPs. Each SWPPP also has a map of these BMPs. The locations of spill kits are also listed in the SWPPPs. Any containment systems are constructed of materials compatible with the substances contained and are designed to prevent the contamination of groundwater. These containments systems are outlined in the individual SWPPPs. Municipal maintenance facilities are inspected annually for stormwater issues as discussed in Section 4.6.I.
4.6.G The City of Excelsior Springs has standard operating procedures for proper disposal of waste removed from the MS4 structures and areas of jurisdiction. The SOPs that include information about the proper handling of wastes include: Garbage Handling/Storage and Vactor Truck Waste Handling/Storage SOPs.
4.6.H The City of Excelsior Springs maintains and utilizes standard operating procedures for the washing of all municipal vehicles and equipment. Generally speaking, the vehicle/equipment washing SOP calls for the washing of vehicles either at commercial car wash facilities or within the wash bay located at the Public Works Maintenance facility. This assures that the use of soaps/detergents will only be used where there is a connection to the sanitary sewer and that wash/rinse waters that contain pollutants such as salt, oils, grease, sediment, grass clippings, lawn chemicals, or pesticides will not be discharged to waters of the state. The wash bay is indicated on the map of the facility.
4.6.I The City of Excelsior Springs maintains written explanation of the controls, procedures, inspection schedules, and explanation of tracking of these controls. Tracking will be done by retaining inspection reports or checklists.

All applicable MS4 facilities follow Standard Operating Procedures for Good Housekeeping for many of the most common municipal activities.

Annually, the City of Excelsior Springs will evaluate the results, controls, and inspection procedures to ensure compliance with these requirements and determine if changes are needed. This evaluation will also aid in finding priority areas or pollutants in relation to MCM 3, or adding more education in relation to MCM 1.

Municipal Facilities listed in Section 4.6.D will be inspected at least annually. Municipal Facility Inspection Forms with the date of the review, location inspected, discussion of any issues found, discussion of any changes made or proposed, and discussion of any follow up needed will be kept by the Stormwater Coordinator on the shared Public Works computer drive and made available to MDNR upon request.
4.6.J The City of Excelsior Springs maintains procedures to determine if there are impacts to water quality for new flood management projects, if applicable. Any flood management projects will consider the protection of water quality in the standards that are used to plan, design, build, and maintain stormwater infrastructure.

Flood management projects are those projects developed or designed to reduce flooding.
New flood management projects completed by private developers must follow the MARC BMP Manual which requires the treatment of the water quality storm (aka "first flush"). The Public Works Director in consult with the City's Stormwater Consultant will determine whether or not the development plans submitted accomplish this goal. The City of Excelsior Springs rarely completes new flood management projects. However, in the event that one is scheduled on the capital projects list, the Public Works Director will require the design professional preparing the plans to determine if the water quality storm has been effectively treated.

The City has developed a list of existing flood control projects. At this time, all of these projects are privately owned and there is no enforcement mechanism to require retrofitting unless a redevelopment occurs in the contributing watershed. However, when such a redevelopment occurs, treatment of the water quality storm will be required.

The annual report will document if any flood management projects have been reviewed and, if so, where they are located and how water quality impacts were taken into account.
4.6.K The City of Excelsior Springs will evaluate the current Stormwater Management Program including training, inspection procedures, and other municipal operation procedures to ensure compliance with the MS4 permit requirements. Any changes necessary to be in compliance with the permit will be completed within one (1) year of this permit issuance.

### 4.6.L N/A

4.6.M Using adaptive management, the City of Excelsior Springs will review their Municipal Operations Program, at minimum, annually and update implementation procedures as necessary.

| Annual review of MCM 6 |  |  |  |
| :---: | :--- | :--- | :--- |
| Year being <br> reviewed | Date of <br> review | Reviewer(s) | Were changes made and noted <br> above? |
| 2021 |  |  |  |
| 2022 |  |  |  |
| 2023 |  |  |  |
| 2024 |  |  |  |
| 2025 |  |  |  |

### 5.3 MS4 Stormwater Management Program Report

5.3.A A report to the Department on the status of the City's program is due annually on or before February 28th. This report will cover the previous year from January $1^{\text {st }}$ to December $31^{\text {st }}$. The report will be submitted on the Department approved, MS4 Stormwater Management Program Report form.

The annual reports will be submitted through the eDMR system. This is accessible through the Missouri Gateway for Environmental Management (MoGEM): https://dnr.mo.gov/mogem/

The Stormwater Coordinator will have access to the eDMR system. His role in the eDMR system is
$\qquad$ .

| Annual Report Submittal |  |  |
| :--- | :--- | :--- |
| Permit <br> Year | Date of <br> Submittal | Submitted by whom? |
| 2021 |  |  |
| 2022 |  |  |
| 2023 |  |  |


| 2024 |  |  |
| :--- | :--- | :--- |
| 2025 |  |  |

