

# **STORMWATER MANAGEMENT PLAN**

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## **JASPER COUNTY, MISSOURI MOR04C052**

**OCTOBER 2026- SEPTEMBER 2031  
PERMITTING PERIOD**

**PREPARED BY:  
ALLGEIER, MARTIN AND ASSOCIATES, INC.**

**Stormwater Management Plan**  
Jasper County, Missouri  
October 2026-September 2031 Reporting Period

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# Part 1 - Facility Information

## 1.A. GENERAL INFORMATION:

**NPDES #:** MOR04C052  
**Facility Name:** Jasper County Phase II MS4  
**Facility Mailing Address:** Room 101, Jasper County Courthouse,  
302 South Main Street, Carthage, MO 64836

**Owner's Name:** Jasper County, Missouri  
**Owner's Physical Address:** Room 101, Jasper County Courthouse,  
302 South Main Street, Carthage, MO 64836  
**Owner's Mailing Address:** 302 South Main Street Room101, Carthage, MO 64836

**Primary Contact:** Debbie Darby  
**Phone Number:** (417) 358-0477  
**Email:** [Debbie.Darby@lpha.mo.gov](mailto:Debbie.Darby@lpha.mo.gov)

**Secondary Contact:** John Bartosh, Presiding Commissioner \*  
**Phone Number:** (417) 358-0421  
**Email:** [jbartosh@jaspercountymo.gov](mailto:jbartosh@jaspercountymo.gov)

**Facility Region:** Southwest (Main Office in Springfield, Satellite Office in Neosho)  
**Facility County:** Jasper County, MO  
**Facility Type:** Small MS4  
**Facility SIC Code:** 9511  
**Facility NAICS Code:** 924110  
**Facility Description:** Discharges from Regulated Small MS4  
**Total MS4 Area (acres):** 12.96 sq. miles (8297 acres)

\* If name of Primary Contact changes, that may be updated on the next Stormwater Management Program Report and/or via email to the Department at MS4@dnr.mo.gov.

## 1.B. ADJACENT WATERWAYS:

The permittee is not within 100 feet of waters classified as public drinking water supply lakes (L1) or major reservoirs (L2).

The permittee does not discharge to any Wild and Scenic Riverways, Outstanding State Resource Waters, or streams designated for cold-water habitat. Therefore, the permittee is implementing no additional specific provisions for their continued integrity

The permittee does not discharge within two stream miles upstream of any biocriteria reference locations as defined in 10 CSR 20-7.031.

Portions of the permittee's MS4 area are defined as wetlands in the National Wetlands Inventory. The permittee's MS4 area (unincorporated urbanized area only) discharges directly to two permanently flowing streams (Class P), Center Creek and Turkey Creek. The permittee's non-MS4-regulated area also discharges to Spring River and North Fork Spring River (both Class P). The permittee also discharges to tributaries (Class C) to Shoal Creek (Class P), but Shoal Creek is not within the County.

The permittee's MS4 area is within 100 feet waters listed as Impaired on the 303(d) List (approved 2022). See Table 1.B for detailed list of streams.

- o A TMDL was approved in 2006 for Zinc in three stream segments (Section MO\_3203 of Center Creek and Sections MO\_3216 and MO\_3217 of Turkey Creek), but the MS4 was not assigned a Wasteload Allocation (WLA). The source of the metals has been determined to be the Tristate Abandoned Mine Lands.
- o A TMDL was approved in 2022 for Cadmium, Lead, and Zinc in three stream segments (Section MO\_3203 of Center Creek, Section MO\_5003 of Center Creek Tributary, and Section MO\_3980 of Ben's Branch). The ARAP requirements have been waived for the 2022 TMDL. See Section 6 of this SWMP for details.

Table 1.B. 303(d) Listed Waterbodies in Jasper County (from 2022 Approved List)

WBID	Waterbody	Year Listed	WB Class	Pollutant	Pollutant Source	TMDL Approved / WLA Assigned	Located Within County's MS4 Area*
3980	Bens Branch	Delisted in 2022, due to TMDL	C	Cadmium (S)	Oronogo/Duenweg Mining Belt	2022. WLA shared by all MS4s in Watershed. ARAP waived. (See SWMP Section 6.)	No
			C	Cadmium (W)	Mill Tailings		
			C	Lead (S)	Oronogo/Duenweg Mining Belt		
			C	Zinc (S)	Oronogo/Duenweg Mining Belt		
			C	Zinc (W)	Oronogo/Duenweg Mining Belt		
3203	Center Cr.		P	Cadmium (S)	Tri-State Mining Dist.		Yes
			P	Lead (S)	Tri-State Mining Dist.		Yes
5003	Center Creek Trib		C	Cadmium (W)	Oronogo/Duenweg Mining Belt		No
			C	Lead (W)	Mill Tailings		
			C	Zinc (W)	Oronogo/Duenweg Mining Belt		
3203	Center Cr.	2012	P	Escherichia coli (W)	Nonpoint Source	No/No	Yes
3210	Center Cr.	2008	P	Escherichia coli (W)	Rural NPS	No/No	Yes
3184	Blackberry Cr.	2006	C	Chloride (W)	Asbury Power Plant	No/No	No
3184	Blackberry Cr.	2008	C	Sulfate + Chloride (W)	Asbury Power Plant	No/No	No
3189	Dry Fk.	2008	C	Escherichia coli (W)	Rural NPS	No/No	No
3199	Duval Cr.	2016	C	Escherichia coli (W)	Nonpoint Source	No/No	No
3207	Jenkins Cr.	2012	P	Escherichia coli (W)	Rural NPS	No/No	No
3208	Jenkins Cr.	2014	C	Escherichia coli (W)	Rural NPS	No/No	No
3205	Jones Cr.	2012	P	Escherichia coli (W)	Rural NPS	No/No	No
5006	Joplin Creek	2016	C	Cadmium (W)	Mill Tailings	No/No	No
5006	Joplin Creek	2018	C	Zinc (W)	Mill Tailings	No/No	No
3186	N. Fk. Spring R.	2008	P	Escherichia coli (W)	Rural NPS	No/No	No
3188	N. Fk. Spring R.	2008	C	Escherichia coli (W)	Rural NPS	No/No	No
3188	N. Fk. Spring R.	2006	C	Oxygen, Dissolved (W)	Source Unknown	No/No	No
3188	N. Fk. Spring R.	2006	C	Oxygen, Dissolved (W)	Source Unknown	No/No	No
3190	Opossum Cr.	2018	C	Escherichia coli (W)	Rural NPS	No/No	No
3981	Shoal Creek Trib	2014	C	Cadmium (W)	Tanyard Hollow Pits	No/No	Yes
3981	Shoal Creek Trib	2014	C	Zinc (W)	Tanyard Hollow Pits	No/No	Yes

WBID	Waterbody	Year Listed	WB Class	Pollutant	Pollutant Source	TMDL Approved / WLA Assigned	Located Within County's MS4 Area*
3982	Shoal Creek Trib	2020	C	Cadmium (W)	Mill Tailings	No/No	No
3982	Shoal Creek Trib	2014	C	Zinc (W)	Mill Tailings	No/No	No
3754	Slater Br.	2014	C	Escherichia coli (W)	Nonpoint Source	No/No	No
3160	Spring R.	2006	P	Escherichia coli (W)	Rural NPS	No/No	No
4112	Spring River Trib	2018	C	Escherichia coli (W)	Nonpoint Source	No/No	No
3216	Turkey Creek	2006	P	Cadmium (S)	Tri-State Mining Dist.	TMDL for Zinc, 2006. No WLA.	Yes
3216	Turkey Creek	2006	P	Cadmium (W)	Tri-State Mining Dist.		Yes
3216	Turkey Creek	2006	P	Escherichia coli (W)	Urban Runoff/Storm Sewers		Yes
3216	Turkey Creek	2008	P	Lead (S)	Tri-State Mining Dist.		Yes
3216	Turkey Creek	2006	P	Zinc (S)	Tri-State Mining Dist.		Yes
3217	Turkey Creek	2006	P	Cadmium (S)	Tri-State Mining Dist.	TMDL for Zinc, 2006. No WLA.	Yes
3217	Turkey Creek	2006	P	Escherichia coli (W)	Urban Runoff/Storm Sewers		Yes
3217	Turkey Creek	2006	P	Lead (S)	Tri-State Mining Dist.		Yes
3217	Turkey Creek	2006	P	Zinc (S)	Tri-State Mining Dist.		Yes
3983	Turkey Creek Trib	2014	C	Cadmium (S)	Abandoned Smelter Site	No/No	No
3983	Turkey Creek Trib	2016	C	Cadmium (W)	Abandoned Smelter Site	No/No	No
3984	Turkey Creek Trib	2016	C	Cadmium (W)	Mill Tailings	No/No	No
3983	Turkey Creek Trib	2014	C	Lead (S)	Abandoned Smelter Site	No/No	No
3983	Turkey Creek Trib	2014	C	Zinc (S)	Abandoned Smelter Site	No/No	No
3983	Turkey Creek Trib	2014	C	Zinc (W)	Abandoned Smelter Site	No/No	No
3984	Turkey Creek Trib	2014	C	Zinc (W)	Leadwood Hollow pits	No/No	Yes
3985	Turkey Creek Trib	2014	C	Zinc (W)	Chitwood Hollow pits	No/No	Yes
3182	White Oak Cr.	2010	C	Escherichia coli (W)	Rural NPS	No/No	No

Waterbody Classification: P = Perennial Stream; C = Intermittently Flowing Stream

Pollutant: (W) = Pollutant is in water; (S) Pollutant is in sediment

\* Jasper County's MS4 area includes all unincorporated areas within the County that are also within the Joplin Urbanized Area. (Joplin Urbanized Area is based on the 2010 Census, provided by Missouri Department of Natural Resources.)

### 1.C. CRITICAL AREAS:

There are threatened or endangered species in the area. (See Table 1.C below.) The Permittee has met eligibility criteria for protection of threatened or endangered species.

There are critical habitats in the area. (See Table 1.C below.) The Permittee has met eligibility criteria for protection of critical habitats.

There are no historic properties in the applicable MS4 area.

Table 1.C Endangered Species/Critical Habitats

County	Species	Status	Habitat
<i>Mammals</i>			
Jasper	Gray Bat <i>Myotis grisescens</i>	Endangered	Caves
Jasper	Indiana Bat <i>Myotis sodalist</i>	Endangered	Caves
Jasper	Northern Long-Eared Bat <i>Myotis septentrionalis</i>	Threatened	Caves
<i>Fish</i>			
Jasper	Neosho Madtom <i>Noturus placidus</i>	Threatened	Rivers
Jasper	Ozark Cavefish <i>Abylopsis rosae</i>	Threatened	Caves in the Boone & Burlington limestone formations of the Ozark Mountains
<i>Clams</i>			
Jasper	Neosho Mucket Clam <i>Lampsilis rafinesquena</i>	Endangered	<i>Critical Habitat found in the County.</i>
Jasper	Rabbitsfoot Clam <i>Quadrula cylindrica clindrica</i>	Threatened	<i>Critical Habitat found in the County.</i>
Jasper	Western Fanshell Clam <i>Cyprogenia aberti</i>	Proposed Threatened	
<i>Insects</i>			
Jasper	Monarch Butterfly <i>Danaus plexippus</i>	Candidate	
<i>Plants</i>			
Jasper	Mead's Milkweed <i>Asclepias meadii</i>	Threatened	

## Part 2 – Outfalls

A map of Stormwater Outfalls is required under Minimum Control Measure 3. The mapping is available online at <https://www.jaspercountymo.gov/storm-water-management>, using the “Maps” link.

Outfall locations and descriptions can be found in the following table.

### NOTE ON MAPPING UPDATES:

Jasper County’s regulated MS4 area and Outfall mapping are dependent on the most current “Designated Urbanized Area” (DUA) for Joplin. The Missouri Department of Natural Resources has updated the DUA to correspond to the 2020 US Census data. MDNR made the mapping information available in late November 2023. Jasper County’s mapping (regulated area and Outfalls) was updated in 2026 to reflect the latest DUA.

# Jasper County Stormwater Outfalls \*

Last updated Jan. 2026

Outfall No.	UTM Coordinates (m) Zone 15		Latitude (NAD83)	Longitude (NAD83)	Legal Description	Receiving Stream Name	Receiving Stream Classification	HUC-8	Sub-Water-shed	Outfall Type and Notes
	Easting	Northing								
201	359663.92 E	4104681.34 N	37.077912 °N	94.578791 °W	SE 1/4 NW 1/4 Sec 7 T 27N R 33W	Short Creek	C	11070207 _0904		South Road Ditch of Junge Blvd, where it enters stream from east
202	359643.08 E	4104700.22 N	37.078079 °N	94.579029 °W	NE 1/4 SW 1/4 Sec 7 T 27N R 33W	Short Creek	C	11070207 _0904		North Road Ditch of Junge Blvd, where it enters stream from east
203	361676.46 E	4104609.91 N	37.077568 °N	94.556145 °W	SW 1/4 NE 1/4 Sec 8 T 27N R 33W	Short Creek	C	11070207 _0904		North Road Ditch of Junge Blvd, where it enters stream from west, DS of pond
204	361690.99 E	4104610.44 N	37.077575 °N	94.555981 °W	SW 1/4 NE 1/4 Sec 8 T 27N R 33W	Short Creek	C	11070207 _0904		North Road Ditch of Junge Blvd, where it enters stream from east, DS of pond
205	361679.14 E	4104595.90 N	37.077442 °N	94.556112 °W	NW 1/4 SE 1/4 Sec 8 T 27N R 33W	Short Creek	C	11070207 _0904		South Road Ditch of Junge Blvd, where it enters stream from west, DS of pond
206	361690.97 E	4104595.60 N	37.095757 °N	94.566471 °W	NW 1/4 SE 1/4 Sec 8 T 27N R 33W	Short Creek	C	11070207 _0904		South Road Ditch of Junge Blvd, where it enters stream from east, DS of pond
207	360791.78 E	4106643.01 N	37.095757 °N	94.566471 °W	SW 1/4 NW 1/4 Sec 5 T 27N R 33W	Trib to Short Creek	C	11070207 _0904		East Road Ditch of Black Cat Rd, where it enters stream from south. South of old RR corridor.
208	361732.10 E	4107143.00 N	37.100404 °N	94.555986 °W	NW 1/4 NE 1/4 Sec 5 T 27N R 33W	Trib to Turkey Creek	C	11070207 _0901		South Road Ditch of Belle Center Rd, where it enters stream from west (East of Valve Rd)
209	361755.65 E	4107142.70 N	37.100402 °N	94.555721 °W	NW 1/5 NE 1/5 Sec 5 T 27N R 33W	Trib to Turkey Creek	C	11070207 _0901		South Road Ditch of Belle Center Rd, where it enters stream from east (East of Valve Rd)
210	362935.82 E	4108644.18 N	37.114105 °N	94.542719 °W	NE 1/4 NW 1/4 Sec 33 T 28N R 33W	Turkey Creek	P	11070207 _0901		Open Channel from culvert exit (under Zora Rd) to where it enters Turkey Creek (North side of Schifferdecker bridge)
211	363000.00 E	4108626.09 N	37.113952 °N	94.541993 °W	NE 1/4 NW 1/4 Sec 33 T 28N R 33W	Turkey Creek	P	11070207 _0901		Southeast Road Ditch (NW corner of Schifferdecker bridge), where it enters Turkey Creek from northeast
212	361846.05 E	4112927.22 N	37.152539 °N	94.555770 °W	SE 1/4 NW 1/4 Sec 17 T 28N R 33W	Trib to Center Creek	C	11070207 _0608		West Road Ditch of Joplin St (north of Garland Ln), where it enters stream from south (adjacent to culvert under Joplin St)
213	361862.70 E	4112908.94 N	37.152377 °N	94.555580 °W	SW 1/4 NE 1/4 Sec 17 T 28N R 33W	Trib to Center Creek	C	11070207 _0608		East Road Ditch of Joplin St (north of Garland Ln), where it enters stream from south (adjacent to culvert under Joplin St)
214	372557.44 E	4105115.40 N	37.083666 °N	94.433855 °W	SE 1/4 SW 1/4 Sec 4 T 27N R 32W	Trib to Turkey Creek	C	11070207 _0901		North Road Ditch of 7th St (east of Kenser), where it enters stream from east (adjacent to culvert under 7th St)
215	372526.47 E	4105115.72 N	37.083664 °N	94.434204 °W	SE 1/5 SW 1/4 Sec 4 T 27N R 32W	Trib to Turkey Creek	C	11070207 _0901		North Road Ditch of 7th St (east of Kenser), where it enters stream from west (adjacent to culvert under 7th St)
216	372545.76 E	4105080.01 N	37.083345 °N	94.433981 °W	NE 1/4 NW 1/4 Sec 9 T 27N R 32W	Trib to Turkey Creek	C	11070207 _0901		South Road Ditch of 7th St (east of Kenser), where it enters stream from east (adjacent to culvert under 7th St)
217	371260.79 E	4105159.17 N	37.083883 °N	94.448447 °W	SW 1/4 SE 1/4 Sec 5 T 27N R 32W	Turkey Creek	P	11070207 _0901		North Road Ditch of 7th St (east of Garden Grove Rd), where it enters stream from east (adjacent to culvert under 7th St)
218	371247.66 E	4105116.05 N	37.083492 °N	94.448588 °W	NW 1/4 NE 1/4 Sec 8 T 27N R 32W	Turkey Creek	P	11070207 _0901		South Road Ditch of 7th St (east of Garden Grove Rd), where it enters stream from west (adjacent to culvert under 7th St)

\* Outfalls for the Unincorporated Urbanized Area (Using Corporate Limits, dated 1-27-2026, and the Composite Designated Urbanized Area per MoDNR, dated 2022 & based on 2020 Census Data)

# Part 3 – Stormwater Management Program and Plan

## Background

The Municipal Separate Storm Sewer System (MS4) Permit requires each permittee to develop and implement a Stormwater Management Program. Each permittee creates and maintains a written Stormwater Management Plan (SWMP) for the permit cycle. The SWMP is a document describing the Program and is created to ensure consistency and continuity in the implementation of the Program.

Jasper County has chosen to participate in the “Comprehensive” version of the MS4 permit (MO-RO4C000) for the October 2026-September 2031 permit cycle. Jasper County is a Class 1 county. According to the table below, Jasper County fits Group B. All BMPs in this SWMP have been chosen to correspond with the requirements for Group B.

NOTE: Throughout this SWMP document, permit language is denoted in *italics*.

### *Categories of Regulated Small MS4s under this comprehensive permit.*

*This comprehensive permit categorizes MS4s by the following categories, or Groups, based on the population served as determined by the most the recent Decennial Census at the time of permit issuance, the type of Regulated MS4, and the co-permittee situation.*

<b>Group A</b>	<b>Group B</b>	<b>Group C</b>
<i>Traditional Small MS4s (cities) that serve a population of less than 10,000 within a UA;</i>	<i>Traditional Small MS4s that serve a population of at least 10,000 but less than 40,000; OR</i>	<i>Traditional Small MS4s that serve a population of 40,001 or more; OR</i>
<i>Class 2 counties; Non-traditional such as Universities, Federal facilities.</i>	<i>Class 1 counties</i> <b>Jasper County fits this category.</b>	<i>Co-permit Small MS4s</i>

*The MS4 Operator may add supplemental items to the SWMP. These items include but are not limited to:*

- *Maps;*
- *Standard operating procedures (SOPs);*
- *Inspection forms;*
- *Sample data;*
- *Operations and Maintenance Manual;*
- *Website or social media account tracking;*
- *Stream Team Activity Reports;*
- *Tracking and evaluation documents; and*
- *Documentation of agreements for co-permittees and/or cooperative agreements.*

*The MS4 Operator may replace or modify ineffective BMPs with effective BMPs*

## **Part 4 – Minimum Control Measures**

**4.0** Entities under coverage of the MOR04C general permit shall develop and implement a Stormwater Program that includes the following six (6) Minimum Control Measures (MCMs).

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

4.2 MCM#2: Public Participation

4.3 MCM#3: Illicit Discharge Detection and Elimination

4.4 MCM#4: Construction Site Stormwater Runoff Control

4.5 MCM#5: Post-Construction Stormwater Management in New Development & Redevelopment

4.6 MCM#6: Pollution Prevention/Good Housekeeping for Municipal Operations

NOTE: BMP = Best Management Practice

## **4.1 MCM 1. Public Education and Outreach (PEO) on Stormwater Impacts**

Jasper County has implemented a public education and outreach program to distribute educational materials to the community and conduct 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 shall, at a minimum include the following:*

### **4.1.A Target Audiences**

*The MS4 Operator shall target specific audiences who are likely to have significant stormwater impacts.*

The primary audience for the County's Public Education program will be residents. As a Class 1 County, Jasper County is in Group B, so one additional target audience is required. The additional target audience will be construction site operators/builders.

### **4.1.B Target Pollutants**

*The MS4 Operator shall target specific pollutant(s) in the permittee's education program. Each MS4 shall have a minimum of one target pollutant for each target audience from Section 4.1.A of this permit.*

Jasper County has chosen target pollutants for the residential audience that will vary seasonally. These target pollutants will include, but are not limited to, solid waste, grass clippings & leaf litter. The target pollutants for the construction site operators/builders will include, but are not limited to, solid waste (trash/litter) and erosion/sediment from construction activities.

### **4.1.C Best Management Practices (BMPs) for Outreach and Education**

*The MS4 Operator must 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 MS4 Operator 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 shall be reflected in the SWMP and explained in the MS4 Stormwater Management Program Report.*

Jasper County, as part of Group B, must choose a minimum of four Outreach and Education BMPs from Table III of the MS4 General.

Jasper County has chosen the following Outreach and Education BMPs:

❖ **Stormwater Information on the County Website**

- Continue the Stormwater Information page on the County website to provide educational material and links to further stormwater information.
- Measurable Goals: Maintain the webpage with up-to-date information and working links. All links will be checked, and the page will be updated as necessary at minimum annually. Website will be maintained for the entire permit cycle.
- Tracking and Adaptive Management: All links will be checked and fixed as necessary. The number of hits will be tracked. The County will use number of hits to see which messages get reactions, and if certain messages may need more education.
- Target Audience: Residents, construction site operators/builders
- Target Pollutants: Include, but are not limited to, solid waste (trash, litter), grass clippings & leaf litter, and erosion/sediment from construction activities.
- Website Address: <https://www.jaspercountymo.gov/storm-water-management>

❖ **Social Media Posts**

- Post Stormwater Information page on the County's Facebook page.
- Measurable Goals: Post a minimum of four (4) times per year. The messages will address ways attendees can minimize or avoid adverse stormwater impacts or practices to improve the quality of stormwater runoff. Messages will be seasonally appropriate. Posting will be continued for at least one full year.
- Tracking and Adaptive Management: The number of views, impressions, and other interactions will be tracked. The County will use this to see which messages get reactions, and if certain messages may need more education.
- Target Audience: Residents
- Target Pollutants: Include, but are not limited to, solid waste, grass clippings & leaf litter.
- Website Address: <https://www.facebook.com/JasperCountyHealthDept/>

❖ **Mail Stormwater Fact Sheets/Brochures**

- Mail stormwater fact sheet annually with tax assessor information.
- Measurable Goals: Mail stormwater fact sheet annually with tax assessor information. The sum of all fact sheets/brochure in one year will be at minimum equal to the number of housing units for the 2020 census (53,712).
- Tracking and Adaptive Management: The number of applicable housing units will be recorded (53,712) and the number of fact sheets/brochures will be recorded.
- Target Audience: Residents
- Target Pollutants: Include, but are not limited to, solid waste, grass clippings & leaf litter.

❖ **Disseminate Erosion & Sediment Control Guidelines with Land Disturbance Permits**

- Targeted education campaign. The County's Erosion & Sediment Control Guidelines will be disseminated with each Site Development Permit.
- Measurable Goals: A copy of the County's Erosion & Sediment Control Guidelines will be distributed with each new Site Development Permit. This may be done electronically.
- Tracking and Adaptive Management: Number of Site Development Permits /copies sent will be tracked. County will use compliance with construction site stormwater control requirements to determine effectiveness of this BMP.
- Target Audience: Construction site operators/builders.

- Target Pollutants: Include, but are not limited to, erosion/sediment from construction activities, and solid waste (trash/litter).
- Website Address: <https://www.jaspercountymo.gov/storm-water-management>, in the “Links” section.

#### 4.1.D Best Management Practices (BMPs) for Involvement

*The MS4 Operator must 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.*

Jasper County, as part of Group A, must choose a minimum of two Involvement BMPs from Table IV of the MS4 General Permit.

Jasper County has chosen the following Involvement BMP:

##### ❖ **Educational Display/Booth**

- The Jasper County Health Department will provide at least one information and/or display booth each year (MSSU Earth Day event). The booth will work to improve public understanding of issues related to stormwater quality.
- Measurable Goals: The County will provide one booth or display at minimum annually. The booth must be staffed by County staff at minimum 50% of the time the event is open to the public.
- Tracking and Adaptive Management: The number of hours the booth was staffed and the number of hours of the event will be recorded. The topic(s) covered and the amount of educational materials distributed will also be recorded.
- Target Audience: Residents
- Target Pollutants: Include, but are not limited to, solid waste, grass clippings & leaf litter.

##### ❖ **Stream Cleanup**

- The County will participate in stream cleanup events, such as the annual Shoal Creek Cleanup. County will provide support by paying staff to attend. Other participation options might include: providing trash receptacles, hauling off waste, fully or partially funding the event, etc.
- Measurable Goals: Clean a minimum of 400 yards of stream/streambank during the event. The County will participate in a minimum of one stream cleanup event per permit period.
- Tracking and Adaptive Management: Track the distance of stream & streambank cleaned (min 400 yards), the attendance, and the amount of waste collected. The County will use the waste measurements to determine if there are priority areas for litter entering the stormwater or areas of illegal dumping. The County will record the manner in which it participated.
- Target Audience: Residents and businesses.
- Target Pollutants: Solid waste (trash/litter).

**4.1.E** *The MS4 Operator shall create or support the involvement BMP(s) in Section 4.1.D.*

Jasper County participates in the Stream Cleanup BMP in Section 4.1.D by paying staff to attend.

**4.1.F Adaptive Management**

*Using adaptive management as required in parts 4.1.A.3.d and 4.1.B.1.c, all MS4 Operators shall 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 may be conducted when preparing the annual MS4 Stormwater Management Program Report for submittal to the Department.*

Annual Review of MCM 1			
Year reviewed	Date of review	Reviewer(s)	Were changes made and noted?
2026			
2027			
2028			
2029			
2030			

Table MCM1. Public Education and Outreach Program BMPs

Stormwater BMP	Target* Audience	Target Pollutant	Implementation Date	Update Frequency	Responsible Party	Measurable Goal	Tracking
Outreach and Education BMPs (min. 4)							
Maintain Stormwater Information page on County Health Dept. website, see above for details (must have hit counter)	C, R	Solid waste, grass & leaf litter, erosion/sediment, etc.	Ongoing	Annual. Check links. Update info.	Debbie Darby	Maintain the webpage with up-to-date information and working links. All links will be checked. Website will be maintained for the entire permit cycle.	Number of hits will be tracked. Do all links work?
Social Media: Post Stormwater Information on the County's Facebook page.	R	Solid waste (trash/litter) grass & leaf litter, etc.	Ongoing	Quarterly (by season)	Debbie Darby	Post a minimum of four (4) times a year. The messages will address ways attendees can minimize or avoid adverse stormwater impacts or practices to improve the quality of stormwater runoff. Messages will be seasonally appropriate. Posting will be continued for at least one full year.	The number of views, impressions, and other interactions will be tracked.
Mail fact sheets or brochure as inserts with tax assessor mailings. Inserts to contain information about stormwater impacts, practices, and education for the public.	R	Solid waste (trash/litter) grass & leaf litter, etc.	Ongoing	Annual	Debbie Darby	The number of inserts sent out per year shall be at minimum equal to the most recent U.S. Census Bureau decennial housing units value for the permit area.	The applicable U.S. Census housing units value will be recorded (53,712), and the number of inserts sent out per year will be recorded.
Distribute County's Erosion & Sediment Control Guidelines with each Site Development Permit. May be done electronically.	C, R	Erosion/Sediment, Solid Waste (trash/litter)	Ongoing	Annual, or as needed	Steve McKarus	A copy of the County's Erosion & Sediment Control Guidelines will be distributed with each new Site Development Permit. This may be done electronically.	Number of Site Development Permits /copies sent will be tracked.

\* R = Residents      C = Construction site operators/builders

Table MCM1. Public Education and Outreach Program BMPs (cont.)

Stormwater BMP	Target* Audience	Target Pollutant	Implementation Date	Update Frequency	Responsible Party	Measurable Goal	Tracking
Involvement BMPs (min. 2)							
Educational Display/Booth at public event. Purpose is to improve public understanding of issues related to stormwater quality.	R	Solid waste (trash/litter) grass & leaf litter, etc.	Ongoing	Annual	Debbie Darby	Provide at least 1 booth or display per year. Booth to be staffed by County staff at min. 50% of time event is open.	Track # hours booth is staffed, topics covered, amount of educational materials distributed.
Stream Cleanup	R	Solid Waste (trash/litter)	At least once during the permit cycle.	As needed	Debbie Darby	Clean a min. of 400 yards of stream/streambank during the event. County will participate in a min. of one stream cleanup event per permit period.	Track the distance of stream & streambank cleaned (min 400 yards), number of County staff hours, total attendance, and the amount of waste collected.
Other Items of Note							
Post link to 2026-2031 SWMP document on Public Notice page of County website	R	All pollutants addressed by SWMP	Jan. 2026	As needed	Debbie Darby	Post one link to SWMP	1 link posted
Annual Review of MCM 1	n/a	n/a	Each January	Each January	Debbie Darby	Perform annual review of MCM 1 BMPs.	Note review date and any changes in section 4.1.F of SWMP document.

\* R = Residents      C = Construction site operators/builders

## **4.2 MCM 2. Public Participation**

Jasper County has implemented a comprehensive public participation program that provides opportunities for public participation in the development and oversight of the County's Stormwater Program. This program provides opportunities for public participation in the permittee renewal process and complies with 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 shall, at a minimum include the following:*

### **4.2.A Public Notice Period**

*At the time of renewal, or issuance of a new permit, the MS4 Operator shall hold a public notice period for a minimum of thirty (30) days to allow the public to review the description of the MS4s Stormwater Management Program (this may be the SWMP) prior to the submission of the renewal application to the Department.*

Dates of public notice: Feb 1, 2026 – March 3, 2026  
(Posted in the Sarcoxie Record, at the County Courthouse, and on the Jasper County website.)

### **4.2.B Items to be Posted on Website**

*As part of the public notice, if the MS4 Operator has a public website, the required items shall be posted on their website with a way to submit comments, along with the standard public notice methods for the MS4.*

- 1. The permittee shall respond to comments received during the comment period.*
- 2. The MS4 Operator shall retain copies of any public comments and records of information submitted by the public received as part of the public notice process. These comments and responses shall be made available to the public or the Department upon request.*

During the renewal process, the permit renewal application and related information were made available in the Commissioner's office and were posted on the County's Stormwater website at <https://www.jaspercountymo.gov/storm-water-management>.

### **4.2.C Public Meeting**

*The MS4 Operator shall hold a public information meeting to provide information on, or describe the contents of, the proposed Stormwater Management Program. This meeting shall be advertised at least thirty (30) days prior to the public meeting.*

- 1. As part of the notice of public meeting, if the MS4 Operator has a public website, the MS4 Operator shall post on that site, along with the standard public notice methods for the MS4. The notice of the public informational meeting, including the date, time and location.*
- 2. The meeting must be held within the service area of the MS4. Co-permittees may hold one joint meeting to cover all co-permittee service areas.*

Dates of public notice: Feb 1, 2026 – March 3, 2026  
Dates of notice of meeting: Feb 1, 2026 – March 3, 2026  
Date of meeting: March 3, 2026 at 10:00 am  
Location: County Courthouse, Commissioner's Office

**4.2.D Public Comments**

*The MS4 Operator shall have a publicly available method to accept public inquiries, or concerns, and to take information provided by the public about stormwater and stormwater related topics.*

Written comments can be submitted to Steve McKarus, EPHS Supervisor, at the Environmental Office in person, by mail, by email ([Stephen.McKarus@lpha.mo.gov](mailto:Stephen.McKarus@lpha.mo.gov)), or through the County’s Online Complaint Form (<https://form.jotform.us/form/51404314296147>). Comments are to be tracked electronically or on paper by Mr. McKarus.

**4.2.E Stormwater Management Panel or Committee**

*If the MS4 Operator utilizes a stormwater management panel or committee, the MS4 Operator shall provide opportunities for citizen representatives on the panel or committee. The attendance of the meeting shall be recorded.*

Jasper County does not utilize a stormwater management panel or committee.

**4.2.F Annual Updates to Governing Board**

*If the permittee has a governing board such as; County Council, City Council, or Board of Curators, a representative of the MS4 Operator, who is familiar with the MS4 Stormwater Program, shall provide an update to the governing board. This shall be conducted at minimum, annually with the status of, or updates on, the Stormwater Management Program, and compliance with the Stormwater Management Program. Co-permittees shall hold a meeting for each co-permittee’s governing body.*

An update will be given annually to the County Commission, after completion of the annual Stormwater Report.

Annual Updates to County Commission			
Year to be Reported Upon	Date of update	Method used to update the Commission	Name of MS4 representative(s)
2026			
2027			
2028			
2029			
2030			

#### 4.2.I Adaptive Management

*Using adaptive management, all MS4 Operators shall review their Public Participation Program, at minimum, annually and update implementation procedures as necessary within the requirements of this permit. This shall be used to review how to best reach the public, the effectiveness of the mechanisms, the effectiveness of reaching the public and the MS4 Governing board and if the community and MS4 government are working together for water quality.*

*Any additional events and/or BMPs shall be acknowledged in the Stormwater Management Program.*

Annual Review of MCM 2			
Year reviewed	Date of review	Reviewer(s)	Were changes made and noted?
2026			
2027			
2028			
2029			
2030			

Table MCM2. Public Involvement and Participation Program BMPs

Stormwater BMP	Target* Audience	Implemen-tation Date	Responsible Party	Measurable Goal	Tracking
Permit Renewal Process					
Provide Public Notice for Draft Permit Renewal Application and Associated Mapping	R	Feb-11-2026 to Mar-3-2026	Debbie Darby	30 days min. Public Notice provided so public could view and comment on the draft Permit Renewal Application	Proof of notice dates and methods.
Above noted items posted on County Website	R	Feb-1-2026	Debbie Darby	Items Posted for public viewing and comment	Proof of posting dates and methods.
Provide Public Notice for Public Meeting about Stormwater Management Program	R	Feb-1-2026 to Mar-3-2026	Debbie Darby	30 days minimum Public Notice provided	Proof of notice dates and methods.
Host Public Meeting about the Stormwater Management Program	R	Mar-3-2026	Debbie Darby	Host minimum of one public meeting to inform the public about the Stormwater Management Program and provide opportunities for community input.	Record meeting dates and attendance.
Provide Method for Public Comment. Record and address comments.	R	Feb-1-2026 to Mar-10-2026	Steve McKarus	Provide Method for Public Comment. Record and address comments.	Comment method provided for Permit Renewal Process? Record comments received & addressed. If other comments come in about the Stormwater Program, address them when received.
Ongoing BMPs					
Annual MS4 Program Update to County Commission	County Commission	Each Feb. or Mar., after completion of Stormwater Annual Report	Debbie Darby & Steve McKarus	Annual update to County Commission. Include status and progress of MS4 Stormwater Management Program.	One update per year. Record when update was given each year in section 4.2.F of SWMP
Annual Review of MCM 2	n/a	Each January	Debbie Darby	Perform annual review of MCM 2 BMPs.	Note review date and any changes in section 4.2.I of SWMP document.

\* R = Residents      C = Construction site operators/builders

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

Jasper County 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 shall at minimum, include the following:*

#### **4.3.A Stormwater & Outfall Mapping**

*IDDE program will include a current storm sewer system map that shall be updated as needed to include features which are added, removed, or changed. This map may be paper or electronic.*

Jasper County maintains a storm sewer map that contains:

- the location of All MS4 Outfalls,
- the names and locations of all Waters of the State receiving discharges from the County’s MS4 Outfalls, and
- the boundary of the regulated MS4 area.

A map of Stormwater Outfalls is available online at <https://www.jaspercountymo.gov/storm-water-management>, using the “Maps” link. County field staff use GIS to locate outfalls in the field. This map was updated in 2026 to reflect the latest version of the Joplin Designated Urbanized Area (using data from the 2020 census).

#### **4.3.B Outfall Information Tracking**

*The MS4 Operator must record the sources of information used for the map and track, at minimum:*

- *A numbering or naming system of all outfalls;*
- *Dates that the outfall locations were verified/ or last field survey;*
- *For newly added outfalls, the date that it was added to the storm sewer system.*

The County’s Stormwater & Outfall Mapping utilizes a numbering system for all Outfalls. If additional Outfalls are added during this permit period, the dates will be noted on the mapping. Outfall locations will be verified during IDDE inspections and the dates will be recorded on the inspection forms.

#### **4.3.C Regulatory Mechanism for Illicit Discharge Prevention**

*The MS4 shall effectively prohibit non-stormwater discharges into the permittee’s storm sewer system and implement appropriate enforcement procedures and actions.*

Jasper County has adopted a Stormwater Illicit Discharge Connection Ordinance to effectively prohibit illicit discharges to the MS4. The ordinance, which includes inspection authority and enforcement measures, can be found online at <https://www.jaspercountymo.gov/storm-water-management>, in the “Ordinances” section.

Section 3 (Applicability) of the Ordinance specifies that the “unincorporated urbanized area” is determined by the “2000 census.” This will be updated to read, “most recent US census.”

#### 4.3.D Dry Weather Field Screening

*IDDE program will include a dry weather field screening strategy.*

1. *The MS4 Operator shall conduct (or have conducted on their behalf) outfall field assessments. The screening shall be conducted during dry weather conditions (a minimum of 72 hours after the last precipitation event) to check for the presence of a discharge.*
  - a. *A minimum of 60% of all outfalls shall be screened during the permit cycle.*
  - b. *Priority areas, such as those listed in 4.3.H, shall be screened each year.*
2. *Dry weather screening shall include a checklist or other tracking device to; ensure a complete inspection of each outfall, enhance consistency, and to track the field screening. When discharge is present, the checklist or tracking device shall note the following general observations and physical characteristics at a minimum:*
  - a. *Date and time;*
  - b. *Weather conditions and temperature (air & water);*
  - c. *Color of discharge;*
  - d. *Estimate of flow rate (this may be noted qualitatively);*
  - e. *Odor;*
  - f. *Surface scum, algal bloom, floatables or oil sheen present;*
  - g. *Deposits or stains (note the color);*
  - h. *Turbidity (may be noted qualitatively);*
  - i. *Stream impact including vegetation, fish, wildlife;*
  - j. *Length of impacted stream; and*
  - k. *Notes of an obvious source of flow (such as lawn irrigation, etc.)*

Jasper County has implemented an IDDE Inspection program that utilizes dry-weather field screening to detect and address non-stormwater discharges, including discharges from illegal dumping and spills.

Procedures for inspection are contained within the County’s “Illicit Discharge Detection & Elimination Field Investigation Guide,” dated 2022. During field inspections, the County uses an inspection checklist, called the “Illicit Discharge Inspection Field Sheet,” that includes the above-listed minimum observations and physical characteristics.

A digital copy of the IDDE Field Guide is available on the County’s Stormwater website, <https://www.jaspercountymo.gov/storm-water-management>, in the “Links” section. A copy of the Inspection Field Sheet is included in Appendix MCM 3. Physical copies of the IDDE Field Guide and Inspection Field Sheet are used in the field by inspection staff.

Each outfall is inspected a minimum of once per permit cycle. Additional inspections may occur if there is a complaint or if a priority area is designated.

Number of IDDE inspections for each year are recorded in the table on the next page.

IDDE Inspections for the Year		
	Amount (% or #) per year of permit cycle	Any specific priority areas included: (See also 4.3.H)
2026:		
2027:		
2028:		
2029:		
2030:		

#### 4.3.E Diagnostic Monitoring Procedures

*The MS4 Operator shall maintain diagnostic monitoring procedures to detect and investigate unknown non-stormwater flows as part of the dry weather screening program.*

Procedures for Illicit Discharge Inspection are contained within the County’s “Illicit Discharge Detection & Elimination Field Investigation Guide,” dated 2023. During field inspections, the County uses an inspection checklist, called the “Illicit Discharge Inspection Field Sheet.”

A digital copy of the IDDE Field Guide is available on the County’s Stormwater website, <https://www.jaspercountymo.gov/storm-water-management>, in the “Links” section. A copy of the Inspection Field Sheet is included in Appendix MCM 3. Physical copies of the IDDE Field Guide and Inspection Field Sheet are used in the field by inspection staff.

#### 4.3.F Tracing the Source

*The MS4 Operator shall maintain 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 shall be traced.*

Procedures for tracing the source of an Illicit Discharge are contained within the County’s “Illicit Discharge Detection & Elimination Field Investigation Guide,” dated 2023. A digital copy of the IDDE Field Guide is available on the County’s Stormwater website, <https://www.jaspercountymo.gov/storm-water-management>, in the “Links” section. A physical copy of the IDDE Field Guide is used in the field by inspection staff.

#### 4.3.G Removing the Source

*The MS4 Operator shall maintain procedures for removing the source of the discharge. After locating the source, the pollutant and source must be removed. The exact procedure will depend on the source and the circumstances.*

Procedures for removing the source may vary widely, depending on the source and circumstances. Removal procedures may be as simple as a friendly conversation with a property owner. Or a public education campaign may be indicated if the source is determined to be more widespread. The County’s Stormwater Illicit Discharge and

Connection Ordinance authorizes additional, specific enforcement measures for illicit discharge issues. Enforcement procedures in the ordinance include: Notice of Violation, fines, abatement of the problem by the County (or its agent), cost of abatement to be paid by violator, and possible civil action and/or criminal charges, as the situation requires. Appeal procedures are also included in the ordinance. (This ordinance can be found online at: at <https://www.jaspercountymo.gov/storm-water-management>, in the “Ordinances” section.)

**4.3.H Priority Areas**

*In order to prevent further illicit discharge, the MS4 Operator shall identify priority areas such as, but not limited to:*

- *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*
- *Areas with known illegal encampments*

*Annually, the MS4 Operators shall evaluate this priority area list and/or map and update as necessary to reflect changing priorities.*

	IDDE Inspection Priority Area(s)
2026	
2027	
2028	
2029	
2030	

**4.3.I Written Procedures for IDDE Program Implementation**

*The MS4 Operator shall maintain written procedures for implementing the IDDE Program, including those components described within this section, to ensure program continuity and consistency.*

Procedures for implementation of the IDDE Program are contained within the County’s “Illicit Discharge Detection & Elimination Field Investigation Guide,” dated 2023. A

digital copy of the IDDE Field Guide is available on the County’s Stormwater website, <https://www.jaspercountymo.gov/storm-water-management>, in the “Links” section.

A standard operating procedure (SOP) has also been developed specifically for field response when a possible spill or illicit discharge has been reported. A copy has also been included in Appendix MCM3.

#### 4.3.J Investigation Timeline

*The MS4 Operator must conduct investigations in response to field screening discoveries, spills, or in response to complaints from the public, municipal staff, or adjacent MS4s.*

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.*
3. *If illicit connections or illicit discharges are observed related to, discharging to, or discharging from, an adjacent MS4 Operator’s municipal storm sewer system, the MS4 Operator must notify the other MS4’s Operator within 24 hours of discovery or as soon as practicable.*

Jasper County 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.
3. Notify adjacent MS4 Operators if illicit connections or illicit discharges are observed related to, discharging to, or discharging from, that Operator’s municipal storm sewer system. Notification will take place within 24 hours of discovery or as soon as practicable.

Adjacent MS4	Contact person(s)	Phone number/ email
City of Carl Junction	Steve Lawver City Administrator	417.649.7237 cjcityadm@carljunction.org
City of Carterville	City Administrator	417.673.1341 admin@cartervillemo.com
City of Carthage	Public Works Dept.	417.237.7010 pwd@carthagemo.gov
City of Duquesne	Bill Sherman Mayor	417.781.5085 b.sherman@duquesnemo.org
City of Joplin	Steven Martinez Public Works	417.624.0820 Ext. 1531 SMartine@Joplinmo.Org
City of Oronogo	Tony Cantrell, Public Works Director	417.673.4541 publicworks1 oronogomo.org
Webb City	Public Works Dept.	417.673.6297
Newton County	Clerk	417.451.8221
MoDOT	Melissa Scheperle	melissa.scheperle@modot.mo.gov

#### **4.3.K Enforcement Procedures**

*The MS4 Operator shall have procedures for appropriate enforcement, this may include fines, the ability to collect cleanup and abatement costs, and actions to ensure that the permittee's illicit discharge ordinance (or other regulatory mechanism) is being implemented.*

Enforcement procedures for illicit discharge issues are laid out in the Stormwater Illicit Discharge Connection Ordinance. Procedures in the ordinance include: Notice of Violation, fines, abatement of the problem by the County (or its agent), cost of abatement to be paid by violator, and possible civil action and/or criminal charges, as the situation requires. Appeal procedures are also included in the ordinance. (This ordinance can be found online at <https://www.jaspercountymo.gov/storm-water-management>, in the "Ordinances" section.)

A standard operating procedure (SOP) has been developed for IDDE enforcement procedures. A copy has been included in Appendix MCM3.

#### **4.3.L Database for Tracking IDDE Actions**

*The MS4 Operator shall maintain a database, or other centralized system, to track dry weather field screenings, spills, incidents, and investigations.*

Jasper County tracks all field screenings, spill, incidents, and investigations. Electronic records are kept for the entire MS4 permit cycle in the Stormwater file on the Company G-drive. Records may be kept longer if deemed necessary.

#### **4.3.M IDDE Education**

*The MS4 Operator shall inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, this may work with part 4.1 and part 4.6 of this permit (MCM #1 and MCM #6).*

Public education, for residents and businesses, is covered under part 4.1 of this SWMP. For education of County staff, see section 4.3.Q and 4.6 of this SWMP.

#### **4.3.N Review/Update of IDDE Program**

*All MS4 Operators shall review their IDDE Program, at minimum, annually and update implementation procedures as necessary.*

#### **4.3.O Review/Update of IDDE Program for Existing Permittees**

*Existing permittees shall evaluate their current program to ensure that it is in compliance with this permit.*

- 1. Any revisions to the ordinance or regulatory mechanism shall be complete in the first year of the permit cycle.*
- 2. Maintain an updated map with the items listed above. Items not included in the current map must be added within the first 2 years of the permit cycle.*

**4.3.P** Jasper County is not a new permittee, so 4.3P is not applicable.

#### **4.3.Q IDDE Training Program for Field Staff**

*The MS4 Operator must develop and implement or maintain 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. Reviews of the training effectiveness shall 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 MS4 Operator should consider if the training is enough or is ineffective. The MS4 Operator shall consider ways to survey or test staff to see if the training is effective*

Jasper County will provide Illicit Discharge training to all inspection staff and staff who may handle materials which may become an illicit discharge. Training may be conducted in person or using online resources.

1. Each applicable staff member will be trained at minimum within one year of being hired.
2. Applicable staff include:
  - a. IDDE inspection staff;
  - b. Building inspection staff;
  - c. Fleet maintenance staff;
  - d. Staff at facilities with fuel, chemicals, washing of vehicles or equipment;
  - e. Road maintenance staff;
  - f. Road salt/de-icing staff; and
  - g. Parks, swimming pool, or golf course staff who encounter spills, equipment or vehicle washing, fueling, chemicals, etc.

Reviews of the training effectiveness will be considered after municipal site inspections or after an 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 County will consider if the training is enough or is ineffective.

Records of IDDE Training will be kept with other staff training records under section 4.6 of this SWMP. Reviews of training effectiveness will also be kept under section 4.6.

#### **4.3.R Adaptive Management**

*Using adaptive management, the MS4 Operator shall review their IDDE Program, at minimum, annually and update implementation procedures as necessary. This data shall be used to continuously evaluate the effectiveness of each BMP and the implementation of each BMP. Any additional BMPs shall be acknowledged in the Stormwater Management Program report.*

*List any additional programmatic BMPs and when they were added to the Stormwater Management Program. (Examples of programmatic BMPs include: mapping of entire stormsewer system, adopting a standard operating procedure for dry weather screening, etc.)*

Annual reviews of this minimum control measure are to be recorded in table on next page.

Annual Review of MCM 3			
Year reviewed	Date of review	Reviewer(s)	Were changes made and noted?
2026			
2027			
2028			
2029			
2030			

Table MCM3. Illicit Discharge Detection and Elimination Program BMPs

Stormwater Goal (BMP)	Permit Section	Implementation Date	Update Frequency	Responsible Party	Measurable Goal	Tracking
<b>Mapping</b>						
Stormwater System & Outfall Mapping	4.3.A	Completed, other than updates	As needed	Steve McKarus	Maintain map with storm sewer system & outfalls. Update as needed	Are any updates needed? If so, have they been added?
Outfall Information Tracking	4.3.B	Completed, other than updates	As needed	Steve McKarus	Maintain outfall information (4.3.B) and update as needed, including dates when any outfall locations are surveyed.	Are any updates needed? If so, have they been added?
<b>Regulatory Mechanism and Enforcement</b>						
Illicit Discharge Ordinance	4.3.C 4.3.J 4.3.K	2027	As needed	Presiding Commissioner	Update, Maintain and Enforce Illicit Discharge Ordinance. Maintain enforcement procedures (included in ordinance).	Has the Ordinance been updated?
<b>Inspection</b>						
Dry-weather Inspection of Each Outfall	4.3.D	Ongoing	As needed	Steve McKarus	Inspect all Outfalls (and any new ones) once per permit cycle.	Inspections tracked by keeping Inspection Sheets on file.
Fill Out Inspection Field Sheet for each Outfall Inspected	4.3.D	On day of inspection	As needed	Steve McKarus	Use the Inspection Field Sheet as a checklist to ensure complete inspection of each outfall.	Use Inspection Field Sheet for each inspection. Keep on file.
Identify Priority Areas for Inspection	4.3.H	Annual	Annual	Steve McKarus	Identify priority areas for IDDE Inspection, according to Permit section 4.3.H.	Record any priority areas in section 4.3.H of the SWMP
Adopt & Maintain Written Procedures for Inspection and Tracing the Source	4.3.D-4.3.F	Complete	As needed	Steve McKarus	Adopt & maintain an IDDE Field Guide, which contains the required written procedures for Permit sections 4.3.D-4.3.F	Complete.
<b>Education/Training/Review</b>						
IDDE Information to Public	4.3.M	See MCM#1	See MCM#1	See MCM#1	See MCM#1	See MCM#1
IDDE Training for Field Staff	4.3.Q	As needed	As needed	Debbie Darby	IDDE Training for Inspectors and all staff who handle materials that may become an illicit discharge. Initial training for all, then within 1 year of hire for new employees	Track names/number of employees/departments trained in section 4.6.A & 4.6.B of the SWMP
Annual Review of MCM 3	4.3.R	Each January	Each January	Debbie Darby	Perform annual review of MCM 3 BMPs.	Note review date and any changes in section 4.3.R of SWMP document.

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

Jasper County has implemented and enforces a program to reduce pollutants in any stormwater runoff to the 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 are 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 Regulatory Mechanism**

*The MS4 Operator shall have a law, ordinance and/or other regulatory mechanism 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 mechanism shall include sanctions which are designed to ensure compliance, to the extent allowable under State, or local law.*

Jasper County has adopted an Erosion and Sediment Control Ordinance as the regulatory mechanism requiring appropriate erosion and sediment controls on construction sites. The County regulates sites in unincorporated areas within the designated Joplin Urbanized Area that disturb one or more acres of land, as well as those sites that disturb less than one acre if the disturbance is part of a larger common plan of development or sale that would disturb one acre or more. The ordinance accomplishes the following:

- References the County’s Erosion and Sediment Control Guidelines;
- Lay out procedures for acquiring a Site Development Permit;
- Establish legal authority for the County to inspect permitted construction sites;
- Establish legal authority for the County to enforce the regulations through denial of permit, stop-work orders, revocation of permit, and criminal charges, with associated fines and other penalties.

This Ordinance can be found online at <https://www.jaspercountymo.gov/storm-water-management>, in the “Ordinances” section. The County’s Erosion and Sediment Control Guidelines can be found online at the same web address, under the “Links” section.

Section III (Permits) of the Ordinance specifies that the “unincorporated urbanized area” is determined by the “2000 census.” This will be updated to read, “most recent US census.”

It should be noted that the County is in the process of adopting a stormwater design manual to provide stormwater regulations covered under MCM 5. Since the Pre-Construction Plan Review and construction inspection processes for MCMs 4 & 5 are combined, the adoption of this design manual will affect certain items listed under MCM 4.

### **4.4.B Pre-Construction Plan Review**

*The MS4 Operator shall review pre-construction plans.*

Jasper County’s Environmental Office performs pre-construction plan review for developments covered under the Erosion and Sediment Control Ordinance. During review, the County, or its agent:

1. Evaluates threats to water quality, taking into account:
  - 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.
2. Will utilize a checklist to ensure consistency and completeness. (This checklist will be developed once the design manual is adopted. Then it will be added to Appendix MCM4.)
3. Requires 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.
4. Considers ways to minimize disturbed areas through actions such as, phased construction requirements, temporary seeding or sodding, or erosion mats to exposed areas.
5. Requires construction site operators to control construction-site waste that may cause adverse impacts to water quality. (Trash, concrete wash-out, etc.)

#### **4.4.C Authority to Inspect and Enforce**

*The MS4 Operator shall establish authority for site inspections and enforcement of control measures. To the extent allowable by state, federal, and local law, all MS4 Operators shall implement procedures for inspecting construction/land disturbance projects.*

The Erosion and Sediment Control Ordinance establishes authority for site inspection and enforcement of control measures. The County has implemented procedures for inspecting construction/land disturbance projects.

The construction site runoff control program includes the following.

1. Identification of priority sites for inspection based on nature of the construction activity, topography, disturbed area, and the characteristics of soils and sensitivity of, or proximity to, receiving water.
2. Construction site inspections include assessment of compliance with the County's Stormwater Regulations and other applicable ordinances.
3. The inspections evaluate any structure that functions to prevent pollution of, or remove pollutants from, stormwater. Inspectors use enforcement polices to require BMPs to be implemented and effective.
4. Final inspections (upon completion of the land disturbance and prior to final approval of construction project) ensure all disturbed areas have been stabilized and all temporary erosion and sediment control measures are removed.
5. The inspections conducted by the County's inspector are documented with a checklist. The checklist includes structural BMPs. A copy of the inspection sheet is included in Appendix MCM 4.

#### **4.4.D Enforcement Procedures**

*The construction site runoff control program shall include an established, escalating enforcement policy that clearly describes the action to be taken for violations. The program shall have written procedures to ensure compliance with the MS4 Operator’s construction site runoff control regulatory mechanism. The MS4 Operator must have a minimum of two (2) enforcement actions.*

Enforcement procedures for construction site runoff problems are laid out in the Erosion and Sediment Control Ordinance. Procedures in the ordinance include: Stop-Work Orders, revocation of permit, fines, and possible civil action and/or criminal charges, as the situation requires. (This Ordinance can be found online at <https://www.jaspercountymo.gov/storm-water-management>, in the “Ordinances” section.)

#### **4.4.E Construction Site Self-Inspection Procedures**

*The MS4 Operator shall require the construction site operator to conduct inspections at minimum:*

- 1. Every fourteen (14) days, when construction is active.*
- 2. Within 72 hours of any storm event, and within 48 hours after any storm event equal to or greater than a 2-year, 24-hour storm has ceased.*

*Checklists used for these inspections conducted by construction site operators shall either be submitted to the MS4 Operator, or the MS4 Operator shall verify that these inspections are being conducted by the construction site operator checklists during MS4 Operator inspections.*

Each construction site covered under Jasper County’s Erosion and Sediment Control Ordinance is also covered under the Missouri Land Disturbance Permit MO-RA00000. The state permit requires construction site operators to conduct inspections as listed above. When the County performs an inspection on a construction site, the County’s inspectors check these self-inspection records. Construction site operator shall keep self-inspection records onsite for County review.

Note: The 2-year, 24-hour storm event for Jasper County has a rainfall depth of 3.85 inches, according to NOAA’s Atlas 14, Volume 8, Version 2.

#### **4.4.F Inventory of Active Construction Sites**

*The MS4 Operator shall maintain an inventory of active public and private land disturbance sites, as defined in Section 4.4 of this permit. This may be supplemented with records such as a plan review checklist and email correspondence.*

Jasper County maintains an inventory of active public and private land disturbance sites covered under this permit. The inventory is kept in the Environmental Office and on the Company G-drive.

Inventory information for each active site contains the following:

1. Relevant contact information for each project (e.g., tracking number, name, address, phone, etc.);
2. Size of the project/ area of disturbance;
3. If the site is a priority site/ how high of priority;

#### **4.4.G Tracking of Oversight Inspections**

*The MS4 Operator shall track their oversight inspections. This may be done by retaining copies of records such as inspection checklists and email correspondence. The MS4 Operator must make these inventories available to the Department upon request.*

Jasper County tracks oversight inspections (from 4.4.E) by retaining copies of records of inspection checklists. These inventories are available to the Department upon request.

Tracking contains:

1. Inspection dates and time;
2. Inspector name
3. Inspection findings; and,
4. Follow-up actions and dates, including corrective actions and enforcement actions.

#### **4.4.H Review/Update of Construction Site Runoff Control Program for Existing Permittees**

*Review the Stormwater Management Program including ordinances, permitting procedures, review procedures, inspection procedures and enforcement procedures to ensure compliance with these requirements. Any changes necessary to be in compliance with this permit shall be completed within the first year of this permit issuance.*

*The inventory of active sites must be updated as new projects are reviewed and projects are completed. If the MS4 Operator needs to develop this inventory, it shall be completed within one (1) year of this permit issuance*

**4.4.I** Jasper County is not a new permittee, so 4.4.I is not applicable.

#### **4.4.J Public Comment About Land Disturbance Sites**

*The Stormwater Management Program must include procedures for the MS4 Operator to receive and consider information submitted by the public about land disturbance sites. This may be in combination with 4.2.D of this permit.*

Construction plans are available at the Environmental Office for review by the public. Any citizen of Jasper County may submit comments relating to the plans. Written comments may be submitted to Steve McKarus, EPHS Supervisor, at the Environmental Office in person, by mail, by email ([Stephen.McKarus@lpha.mo.gov](mailto:Stephen.McKarus@lpha.mo.gov)), or through the County's Online Complaint Form (<https://form.jotform.us/form/51404314296147>). Comments are to be addressed by the County within 30 days of receipt.

#### **4.4.K Training for Inspection Staff**

*The MS4 Operator shall provide, or support access to, construction site runoff control training for MS4 inspectors and plan reviewers at minimum once during this permit cycle. This education shall be tracked or documented.*

Jasper County will provide construction site runoff control (including erosion and sediment control) training to all construction inspection staff and plan reviewers at least once during the permit cycle. Records of this training will be kept with other staff training records under section 4.6 of this SWMP. Reviews of training effectiveness will also be kept under section 4.6.

#### **4.4.L Inspection Procedures**

*The MS4 Operator must provide written procedures outlining the local inspection and enforcement procedures to their inspectors to ensure consistency among the inspections.*

A stormwater inspection is provided during each site inspection performed by the County. These oversight inspections are performed a minimum on once per month during construction, and a checklist is used for consistency. The completed inspection checklists are kept at the Environmental Office and on the Company G-drive.

The County has developed standard operating procedures for oversight/erosion control inspections. A copy of these procedures is included in Appendix MCM 4.

Enforcement procedures for construction site runoff problems are laid out in the Erosion and Sediment Control Ordinance. Procedures in the ordinance include: Stop-Work Orders, revocation of permit, fines, and possible civil action and/or criminal charges, as the situation requires. (This Ordinance can be found online at <https://www.jaspercountymo.gov/storm-water-management>, in the “Ordinances” section.)

#### **4.4.M Adaptive Management**

*Using adaptive management, all MS4 Operators shall 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.*

*This annual review may include but is not limited to the follow.*

- 1. Evaluating the most common violations, how the violations are handled, how many are escalated;*
- 2. If the education program can assist in reducing violations;*
- 3. Determining if the site plans match the sites when violations arise or if additional items need to be evaluated at plan review;*
- 4. Assessing public complaints being addressed in a timely manner; and*
- 5. Evaluating if the inspections are thorough and consistent across different sites.*

Annual reviews of this minimum control measure are to be recorded in table on next page.

Annual Review of MCM 4			
Year reviewed	Date of review	Reviewer(s)	Were changes made and noted?
2026			
2027			
2028			
2029			
2030			

Table MCM4. Construction Site Stormwater Runoff Control Program BMPs

Stormwater Goal (BMP)	Permit Section	Implementation Date	Update Frequency	Responsible Party	Measurable Goal	Tracking
<b>Regulatory Mechanism and Enforcement</b>						
Erosion & Sediment Control Ordinance	4.4.A 4.4.D	2027	As needed	Presiding Commissioner	Update, then maintain & enforce existing Erosion & Sediment Control Ordinance. Enforcement procedures included in Ordinance.	Has the Ordinance been updated?
Stormwater Design Manual	4.4.A	2027	As needed	Presiding Commissioner	Adopt, then maintain & enforce Stormwater Regulations included in the manual.	Has the Manual been adopted?
<b>Pre-Construction Plan Review</b>						
Pre-Construction Plan Reviews	4.3.A	Ongoing	As needed	Steve McKarus	Review all qualifying site plans for compliance with Stormwater Regulations.	Track # of plans reviewed and # approved.
Adopt Plan Review Checklist & Use for Future Construction Projects	4.4.B	2027	As needed	Steve McKarus	Use a checklist to ensure consistency and completeness during Plan Review process.	Keep copies of checklists used for each plan review.
Public Comments	4.4.J	Ongoing	As needed	Steve McKarus	Make all active plans available at County Hall for review by public. Accept written comments submitted and address within 30 days.	Keep records of comments submitted and addressed.
<b>Inspection</b>						
Construction Site Inspection by County	4.4.C	Ongoing	As needed	Steve McKarus	Inspect all permitted, active construction sites for compliance with Stormwater Regulations and site's SWPPP (including self-inspections).	Inspections tracked by keeping Inspection Sheets on file.
Use Stormwater Inspection Checklist during Construction Site Inspections	4.4.C	On day of inspection	As needed	Steve McKarus	Use Stormwater Inspection Sheet to ensure complete, consistent inspection of each permitted construction site.	Use Inspection Sheet for each inspection. Keep on file.
County Oversight of Self-Inspection by Construction Site Operators	4.4.E	Ongoing	As needed	Steve McKarus	Provide oversight to check that self-inspections are properly completed by the construction site operators for all permitted sites. (See 4.4.E above for details.)	Keep copies of oversight records, whether submitted by operator or verified by County inspection.
Maintain Inventory of Active Construction Sites	4.4.F	Ongoing	As needed	Steve McKarus	Maintain Inventory of all Active Construction Sites. (Include Contact Info, Size of disturbance area, priority level.)	Are all regulated active construction sites included in inventory?
<b>Education/Training/Review</b>						
Erosion & Sediment Control Training for Inspection Staff & Plan Reviewers	4.4.K	2027	As needed	Debbie Darby	Provide Erosion & Sediment Control Training for Inspection Staff & Plan Reviewers at least once per permit cycle.	Track names/number of staff trained in section 4.6.A & 4.6.B of the SWMP.
Annual Review of MCM 4	4.3.R	Each January	Each January	Debbie Darby	Perform annual review of MCM 4 BMPs.	Note review date and any changes in section 4.4.M of SWMP document.

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

Jasper County continues to implement and enforce a program to address the water quality of long-term stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan or sale. The County accomplishes this goal through a stormwater management ordinance requiring any such development project to obtain a Site Development Permit, discussed below, before construction may begin.

The County's stormwater program ensures that permanent controls have been designed and implemented to prevent or minimize water quality impacts.

### **4.5.A Regulatory Mechanism**

*The MS4 Operator shall maintain and utilize an ordinance(s) or other regulatory mechanism(s) 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.*

Jasper County has adopted the Post Construction Stormwater Management Ordinance as the regulatory mechanism requiring appropriate permanent controls to prevent or minimize long-term water quality impacts. A Stormwater Management Design Manual will be adopted as a companion to the Ordinance. This Manual will provide additional design guidance and regulations. The County regulates sites in unincorporated areas within the designated Urbanized Area that disturb one or more acres of land, as well as those sites that disturb less than one acre if the disturbance is part of a larger common plan of development or sale that would disturb one acre or more. The Ordinance accomplishes the following:

- References a Stormwater Management Design Manual;
- Lay out procedures for acquiring a Site Development Permit;
- Require long-term maintenance of permanent BMPs.
- Establish legal authority for the County to inspect permitted construction sites.
- Establish legal authority for the County to enforce the regulations through denial of permit, stop-work orders, hold on occupation permits, and civil and/or criminal charges, with associated fines and other penalties.

The current ordinance can be found online at <https://www.jaspercountymo.gov/storm-water-management>, in the "Ordinances" section.

The County plans to update the current ordinance to strengthen authority for inspection and maintenance of permanent stormwater BMPs after construction is finished. The County also plans to adopt a stormwater design manual which will contain guidance and requirements for permanent stormwater BMPs, both structural and non-structural. The ordinance updates and design manual are expected to be adopted by September 2027. Once adopted, both will be available on the County's stormwater website.

#### **4.5.B Minimization of Water Quality Impacts**

*The MS4 Operator shall continue or develop a strategy to minimize water quality impacts. This shall include a combination of structural and/or non-structural controls (BMPs) appropriate for the permittee's community.*

##### **1. Structural Controls:**

The design manual will contain provisions for structural stormwater controls. These structural controls will include extended detention basins, grass swales, permeable surfaces, sand filter basins, and other structural BMPs. The manual will include design standards and guidance for designing, installing, implementing, and maintaining stormwater control measures that are designed to infiltrate, evapotranspire, harvest, detain, retain, and/or reuse stormwater. Design standards in the Manual will include regulation of site discharge volumes, rates, durations, and frequency for new development and redevelopment sites, with the intent to minimize the impact of stormwater runoff on water quality.

##### **2. Non-Structural Controls:**

The design manual, once adopted, will contain guidelines and rules for other non-structural stormwater controls. Through this mechanism, the City will adopt preventative actions that involve management and source controls. Specific measures/policies/ include:

- Policies and ordinances that provide requirements and standards to direct development to identified areas;
- Protection of sensitive areas such as wetlands and riparian areas;
- Maintain and/or increase open space (which may include a dedicated funding source for open space acquisition);
- Encourage buffer zones along water bodies;
- Minimization of disturbance of soils and vegetation;
- Use of green infrastructure; and
- Minimization of directly connected impervious areas.

#### **4.5.C Pre-Construction Plan Review**

*Pre-construction plan review shall be conducted by the MS4 Operator 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 shall; protect sensitive areas, minimize the creation of stormwater pollution, and effectively reduce stormwater pollution. This can be achieved by reasonably mimicking pre-construction runoff conditions on all affected new development projects, or the permittee may achieve this goal through a method more appropriate for its community.*

Jasper County's Environmental Office performs pre-construction plan review for developments covered by the Post Construction Stormwater Management Ordinance. This review is performed in conjunction with the review required under MCM 4.

During review, the County, or its agent, will utilize a checklist to ensure consistency and completeness. Non-structural BMPs (such as comprehensive plans, zoning ordinances, buffer

strips, and/or maximization/ preservation of open space) will be evaluated first, once the design manual is adopted. (The checklist will be developed once the stormwater design manual is adopted and a copy will be included under Appendix MCM 4.)

#### **4.5.D Long-Term Maintenance of Permanent Stormwater BMPs**

*The MS4 Operator shall have ordinances or similar enforcement mechanisms to ensure adequate long-term operation and maintenance (O&M) of the selected BMPs, including, as appropriate, agreements between the MS4 Operator and other parties such as post-development landowners or regional authorities.*

Jasper County uses the Post Construction Stormwater Management Ordinance as the regulatory mechanism requiring appropriate long-term operation and maintenance of permanent BMPs. (The current ordinance can be found online at <https://www.jaspercountymo.gov/storm-water-management>, in the “Ordinances” section.)

Long-term O&M is addressed during the plan review and approval process. Copies of O&M information are to be retained by the party responsible for the post-construction BMP and by the County.

#### **4.5.E Long-Term BMP Inspections**

*The MS4 Operator shall inspect, or require inspection of, each water quality structural and non-structural water post-construction BMP according to the following at minimum:*

- 1. A minimum of one (1) inspection shall 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 MS4 inspector shall have access to the approved plans to ensure proper installation.)*
- 2. A minimum of once in the first three years after the installation, by the MS4 Operator.*
- 3. Annually by the owner or operator of the post-construction BMP, or by the MS4 Operator. If completed by the BMP owner or operator, this inspection report shall be submitted to the MS4 Operator for evaluation and review.*
- 4. The MS4 Operator shall inspect a minimum of 60% of all water quality post-construction BMPs within the five year permit cycle. This must include installations with ongoing or open enforcement issues.*

Jasper County has already implemented item 1 above and will be implementing items 2, 3, and 4 throughout this permit cycle. Annual inspections will primarily be completed by the Owner, who is responsible for keeping records of inspection and maintenance. Records are to be made available for the County to review during oversight inspections. Once the design manual is adopted and the inventory begun, the County will inspect a minimum of 60% of all permanent water quality BMPs during the permit cycle.

The County will develop or adopt inspections checklists for each type of BMP after the adoption of the stormwater design manual. The County will track BMP oversight inspections by keeping completed inspection checklists at the Environmental Office and on the Company G-drive.

#### **4.5.F Enforcement Procedures**

*The MS4 Operator must maintain a plan designed to ensure compliance with the MS4's post-construction water quality regulatory mechanism. This plan shall include escalating enforcement mechanisms the MS4 Operator will use to ensure compliance.*

*The MS4 Operator must have the authority to initiate a range of enforcement actions to address the variability and severity of noncompliance*

Enforcement procedures for Long-Term O&M problems are laid out in the Post Construction Stormwater Management Ordinance. (The current ordinance can be found online at <https://www.jaspercountymo.gov/storm-water-management>, in the "Ordinances" section.) This ordinance establishes legal authority for the County to enforce the regulations through notices of violation, civil and/or criminal penalties, with associated fines and other penalties. If necessary, the County may perform maintenance work at the owner's expense or require restoration of land to its undisturbed condition.

Specific procedures for enforcement are laid out in section 10 of the Post Construction Stormwater Management Ordinance. The range of enforcement actions available to the County allow it to address the variability and severity of the noncompliance. Any enforcement response by the County takes into account the:

1. Degree and duration of the violation;
2. Effect the violation has on the receiving water;
3. Compliance history of the post-construction BMP owner or operator; and
4. Cooperation of the owner or operator with compliance efforts.

The enforcement procedures may start with verbal notice, and education regarding the BMP, before continuing to the Notice of Violation. Enforcement actions will begin within 30 days of discovery of the violation.

#### **4.5.G Enforcement Timeline**

*Enforcement actions shall be timely in order to ensure the actions are effective. The MS4 Operator shall begin enforcement actions within thirty (30) days of discovering a violation.*

Specific procedures for enforcement are laid out in section 10 of the Post Construction Stormwater Management Ordinance. The enforcement procedures may start with verbal notice, and education regarding the BMP, before continuing to the Notice of Violation stage, but the actions will begin within 30 days of discovery of the violation.

#### **4.5.H Inventory of BMPs**

*The MS4 Operator shall maintain an inventory tracking the water quality post-construction BMPs. This inventory must contain, at a minimum:*

1. *Relevant contact information for the responsible person(s) or entity (e.g., tracking number, name, address, phone, etc.);*
2. *The type of post-construction BMP;*
3. *Applicable operations and maintenance documents;*
4. *Date the MS4 Operator approved the construction site plan; and,*

5. *If the water quality facility is owned or operated by the MS4, the tracking shall also include any maintenance, such as sediment clean-out or replanting.*

Jasper County will begin an inventory of water quality BMPs once the stormwater design manual is adopted. The inventory will then be updated as new facilities are added and projects are completed.

#### **4.5.I Tracking Post-Construction BMP Inspections**

*The MS4 Operator shall also track the post-construction BMP inspections. This may be done by retaining copies of records such as inspection checklists and email correspondence. The MS4 Operator must make these inventories available to the Department upon request. The tracking must contain at a minimum:*

- 1. Inspection dates and time;*
- 2. Inspector name;*
- 3. Inspection findings; and F*
- 4. Follow up actions and dates, including corrective actions and enforcement actions.*

Jasper County will track BMP oversight inspections by keeping completed inspection checklists at the Environmental Office and on the Company G-drive.

This will begin as the County implements the Post-Construction BMP Inspection Program from 4.5.E. Inspections will begin once there are permanent stormwater BMPs to inspect.

#### **4.5.J Review/Update of Post-Construction BMP Program for Existing Permittees**

*Evaluate the ordinances, permitting procedures, review procedures, inspection procedures and enforcement procedures to ensure compliance with these requirements and determine if changes are needed. Any changes necessary to be in compliance with this permit shall be completed within the first two (2) years of permit issuance.*

*The inventory of water quality facilities must be updated as new facilities are added and projects are completed. If the MS4 Operator needs to develop this inventory, it shall be completed within two (2) years of this permit issuance.*

Jasper County will update the ordinance and adopt the stormwater design manual by September 2027. Once this is completed, the County will begin keeping an inventory of permanent BMPs and develop checklists for plan review, and maintenance inspections.

**4.5.K** Jasper County is not a new permittee, so 4.5.K is not applicable.

#### **4.5.L Training for Inspection Staff**

*The MS4 Operator shall provide appropriate training for MS4 inspectors at minimum once every permit cycle. This may include Green Infrastructure training, or specific operation of proprietary post-construction BMPs. The MS4 shall provide overall training to explain the function of both structural and non-structural post-construction water quality BMPs.*

Jasper County will provide post-construction BMP inspection training to all relevant inspection staff at least once during the permit cycle. Records of this training will be kept with other staff

training records under section 4.6 of this SWMP. Reviews of training effectiveness will also be kept under section 4.6.

**4.5.M Adaptive Management**

*Using adaptive management, all MS4 Operators shall 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.*

*This annual review may include but is not limited to the following.*

- 1. Reviewing the number and types of developments;*
- 2. How many BMPs were installed/inspected;*
- 3. The amount of watershed area being treated;*
- 4. The types of violations found and how frequently; and*
- 5. Evaluating how education could improve the effectiveness of the program.*

*Any additional programmatic BMPs shall be acknowledged in the Stormwater Management Program Report. (Examples of programmatic BMPs include; educational meetings with HOAs, onsite educational visits, adopting a standard operating procedure for enforcement measures.)*

Annual Review of MCM 5			
Year reviewed	Date of review	Reviewer(s)	Were changes made and noted?
2026			
2027			
2028			
2029			
2030			

Table MCM5. Post-Construction Stormwater Management Program BMPs

Stormwater Goal (BMP)	Permit Section	Implementation Date	Update Frequency	Responsible Party	Measurable Goal	Tracking
<b>Regulatory Mechanism and Enforcement</b>						
Post Construction Stormwater Management Ordinance	4.5.A 4.5.B 4.5.D 4.5.F	2027	As needed	Presiding Commissioner	Update, then maintain & enforce existing Stormwater Regulations. Enforcement procedures included in Ordinance. Regs include minimization of Water Quality Impacts & Long-Term Maintenance of Permanent BMPs.	Has the Ordinance been updated?
Stormwater Designa Manual	4.5.G	2027	As needed	Presiding Commissioner	Adopt, then maintain & enforce Stormwater Regulations included in the manual.	Has the Manual been adopted?
<b>Pre-Construction Plan Review</b>						
Pre-Construction Plan Reviews	4.5.C	Ongoing	As needed	Steve McKarus	Review all qualifying site plans for compliance with Stormwater Regulations.	Track # of plans reviewed and # approved.
Adopt Plan Review Checklist & Use for Future Construction Projects	4.5.C	2027	As needed	Steve McKarus	Use a checklist to ensure consistency and completeness during Plan Review process.	Keep copies of checklists used for each plan review.
<b>Construction Phase</b>						
Construction Site Inspection by County, using Const. Insp. Checklist.	4.5.E	Ongoing	As needed	Steve McKarus	Inspect all permitted, active construction sites for compliance with Stormwater Regulations and site's SWPPP (including self-inspections).	Inspections tracked by keeping Inspection Sheets on file.
<b>Long-Term Maintenance of Permanent Stormwater BMPs</b>						
Develop and Maintain Inventory of Permanent Stormwater BMPs	4.5.H	2027, after adoption of SW Design Manual	At close of Construction	Steve McKarus	Maintain Inventory of all Permanent Stormwater BMPs. (Include Contact Info, Size of disturbance area, priority level.)	Are all regulated active construction sites included in inventory?
Develop/Adopt Inspection Checklists for Each Type of Permanent BMP	4.5.C 4.5.I		As needed	Steve McKarus	Develop or adopt checklists for each type of Permanent Stormwater BMP.	Inspections sheets developed. Add to SWMP.
Initial Post-Construction Inspection by County	4.5.E 4.5.I		As needed	Steve McKarus	Inspection by County of all Permanent Stormwater BMPs within first 3 years after construction is complete. (After checklists are developed.)	Inspections tracked by keeping Inspection Sheets on file.
Annual Inspections of Permanent Stormwater BMPs, by County or Owner	4.5.E 4.5.I		Repeat Annually	Steve McKarus	Annual Inspections of each Permanent BMP by Owner or County (depending on agreement). County provides Inspections checklists to Owner.	Inspections tracked by Owner keeping Inspection Sheets on file.
<b>Education/Training/Review</b>						
Post-Construction BMP Inspection Training for Inspection Staff	4.5.L	2027	As needed	Debbie Darby	Provide Post-Construction BMP Inspection Training for relevant Inspection Staff at least once per permit cycle.	Track names/number of staff trained in section 4.6.A & 4.6.B of the SWMP.
Annual Review of MCM 5	4.5.M	Each January	Each January	Debbie Darby	Perform annual review of MCM 5 BMPs.	Note review date and any changes in section 4.5.M of SWMP document.





## **Stormwater Program Training Schedule**

1. In-Depth Training for Pollution Prevention/Good Housekeeping (PPGH) – MCM6
  - a. Frequency: ANNUAL
  - b. Topics: See table in section 4.6.B.
  - c. Applicable Staff :
    - i. Building maintenance/custodial staff
    - ii. Fleet maintenance staff;
    - iii. Staff at facilities with fuel, chemicals, washing of vehicles or equipment;
    - iv. Road maintenance staff;
    - v. Road salt/de-icing staff; and
    - vi. Parks, swimming pool, or golf course staff who encounter spills, equipment or vehicle washing, fueling, chemicals, etc.
  
2. General Training for Pollution Prevention/Good Housekeeping – MCM6
  - a. Frequency:
    - i. Existing Employees: Initial training
    - ii. New Employees: Within one year of being hired
    - iii. Additional training as needed.
  - b. Applicable Staff: All employees not listed in number 1 above.
  
3. Illicit Discharge Detention and Elimination (IDDE) Training – MCM3
  - a. Frequency:
    - i. Existing Employees: Initial training
    - ii. New Employees: Within one year of being hired
  - b. Applicable staff include:
    - i. IDDE inspection staff;
    - ii. Building inspection staff;
    - iii. Construction inspection staff;
    - iv. Fleet maintenance staff;
    - v. Staff at facilities with fuel, chemicals, washing of vehicles or equipment;
    - vi. Road maintenance staff;
    - vii. Road salt/de-icing staff; and
    - viii. Parks, swimming pool, or golf course staff who encounter spills, equipment or vehicle washing, fueling, chemicals, etc.
    - ix. Police
  
4. Training for Construction Site Runoff Control & Post-Construction Stormwater Management – MCM4 & MCM5
  - a. Frequency: Once per permit cycle (Oct 2026-Sept 2031)
  - b. Applicable staff include:
    - i. Construction Inspection staff;
    - ii. Inspection staff for Long-Term BMP inspections

#### 4.6.B Minimum Topics Covered

*The training shall be used to prevent and reduce stormwater pollution.*

*The training shall cover a minimum of the following topics/ activities (if applicable to the MS4):*

The table below provides a breakdown of topics to be covered in the In-Depth Training for PPGH and the IDDE Training (#1 & #3 of the updated Training Program Schedule). As training is provided, records will be kept in the table.

Training Program – Minimum Topic Breakdown			
Topic	Years covered in training	Departments trained	Number of staff trained
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			

#### **4.6.C Training Materials & Procedures**

*The MS4 Operator shall:*

- 1. Maintain material to use in the training program, such as those available from the EPA, the state, or other organizations.*
- 2. Maintain written procedures for the training program. Include a description of how this training will coordinate with all other minimum control measures (such as Illicit Discharge), monitoring and TMDL implementations where applicable.*
- 3. Maintain a written schedule to offer topic specific training when it is appropriate. Such as, swimming pool discharges in the summer, leaf disposal in the fall, proper salt clean-up and usage in the winter.*

Jasper County has updated its training program and schedule to meet the requirements of the new MS4 permit and is in the process of implementing those updates. Training will be provided either in-person or by electronic methods. Training materials have been identified and recorded in Appendix MCM6. Coordination with other MCMs is shown in the updated Training Program Schedule above. Seasonally appropriate topics for employees may be covered through email or in-person training, as deemed necessary.

#### **4.6.D List of Municipal Operations/Facilities**

*The MS4 Operator shall maintain a list of all municipal operations/facilities that are impacted by this operation and maintenance program.*

Jasper County facilities and operations are subject to the MS4 permit if they are either located within the Joplin Designated Urbanized Area, or located within another MS4. There are two County-operated facilities that are both subject to the MS4 permit AND contain operations where there is a high likelihood of stormwater contamination.

114 N River, Carthage MO – Sheriff Department Garage  
200 N River, Carthage MO – Old Road District Barn  
(includes storage buildings & salt storage)

A Stormwater Pollution Prevention Plan (SWPPP) has been created to help minimize pollutant runoff from these facilities. These two facilities are located adjacent to one another, so the County opted to combine them into one SWPPP. The SWPPP contains, at a minimum, the items listed in Section 4.6.F below.

A more complete list of County facilities is included in Appendix MCM6. The list designates in which MS4 area (or no MS4 area) the facility is located.

#### **4.6.E List of Industrial Facilities Owned and/or Operated by the County**

*The MS4 Operator shall maintain a list of industrial facilities the MS4 Operator owns or operates which are subject to NPDES permits for discharges of stormwater associated with industrial activity. The list shall include the permit number or a copy of the No Exposure Exemption Certification (if applicable) for each facility. This includes Municipal projects with a land disturbance permit, wastewater facilities, airports, etc.*

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

Jasper County does not currently own or operate any industrial facilities that are subject to individual NPDES permits or No Exposure Certification.

#### **4.6.F Controls for Reducing or Eliminating Floatables and Pollutant Discharge**

*The MS4 Operator shall develop or maintain controls for reducing or eliminating the discharge of floatables and pollutants from municipal facilities listed in Section 4.6.D and 4.6.E.*

Jasper County has developed a Stormwater Pollution Prevention Plan (SWPPP) for the facilities covered under the County's MS4 permit. (See 4.6.D above for explanation of how it was determined which facilities/operations qualify.) The two facilities are located adjacent to one another, so the County opted to combine them into one SWPPP. Copies of the SWPPP are kept at each facility. Digital copies of the SWPPP is kept on the Company G-drive.

Facilities covered by the SWPPP:

- 114 N River, Carthage MO – Sheriff Department Garage
- 200 N River, Carthage MO – Old Road District Barn  
(includes storage buildings & salt storage)

This SWPPP acts as a guide for the prevention and reduction of pollution in stormwater runoff those County facilities and operations. The SWPPP includes the following, at a minimum:

1. A list of potential pollutant sources at each facility, such as materials used and stored on site.
2. Minimum of annual inspections of all municipally owned or operated facilities for stormwater issues. Checklists have been developed and are to be used during inspections.
  - a. Records will be kept for inspections and follow up. This is accomplished by keeping copies of the inspection checklists (on paper or digitally).
3. Use of structural controls/BMPs to reduce or prevent pollutants from entering waters of the state or into another MS4 where needed.
  - a. A map with descriptions of these BMPs will be maintained for each facility, once it is developed.
4. All paints, solvents, petroleum products, and petroleum waste products (except fuels) under the control of the County are stored so these materials are not exposed to stormwater.
5. Sufficient practices of spill prevention, control, and/or management are provided to prevent any spill of these pollutants from entering waters of the state;
  - a. This includes spill kits when liquid product is stored at a facility; and
  - b. Any containment system used to implement this requirement is constructed of materials compatible with the substances contained and also prevents the contamination of groundwater.
6. Tracking of rock salt/brine or other deicer usage.
7. Maintaining municipal salt storage area(s) after use of rock salt, at minimum:
  - a. Sweep and/or shovel spillage in loading area and storage area, and
  - b. Unload salt hoppers or keep under cover when salt is in the hopper.

#### **4.6.G Procedures for Proper Disposal of Waste**

*The MS4 Operator shall have procedures for proper disposal of waste removed from the MS4 structures and areas of jurisdiction. This waste, shall include at minimum, if applicable to the permittee:*

- 1. Street sweeper spoils and washout;*
- 2. Accumulated sediment;*
- 3. Dredged materials;*
- 4. Floatables, trash and litter;*
- 5. Leaves, other organic matter; and*
- 6. Other debris.*

The above topics are included in the SWPPP, when applicable. Copies of the applicable SWPPP are kept at each facility listed under 4.6.D above. Digital copies of the SWPPP are kept on the Company G-drive.

#### **4.6.H Washing of Municipal Vehicles and Equipment**

*The MS4 Operator shall maintain and utilize the following procedures, at minimum, for the washing of all municipal vehicles and equipment (if applicable to the MS4):*

- 1. Use of any soap or detergent shall only be where there is connection to sanitary sewer or equivalent treatment; and*
- 2. Any wash or rinse water that contains pollutants such as salt, oils, grease, sediment, grass clippings, lawn chemicals, or pesticides shall not be discharged to waters of the state or the MS4 system without appropriate treatment.*
- 3. Any washing or rinsing activities shall be conducted in an appropriate area so the water is treated. This area(s) shall be marked on the map of the facility.*

Vehicle and equipment washing are addressed in the SWPPP, when applicable. Copies of the applicable SWPPP are kept at each facility listed under 4.6.D above. Digital copies of the SWPPP are kept on the Company G-drive.

#### **4.6.I Written Controls, Procedures, Inspection Schedules, Tracking, Annual Review**

*The MS4 Operator shall maintain written explanation of the controls, procedures, inspection schedules, and explanation of tracking of these controls. Tracking may be done by retaining inspection reports or checklists. Individual Stormwater Pollution Prevention Plans (SWPPP) or one overarching Operations and Maintenance Manual (O&M Manual) for all applicable MS4 facilities may be used to comply with this requirement.*

*Annually, the MS4 Operator shall evaluate the results, controls, and inspection procedures to ensure compliance with these requirements and determine if changes are needed. This evaluation may also aid in finding priority areas or pollutants in relation to MCM 3, or adding more education in relation to MCM 1.*

Written explanations of control and procedures are included in the SWPPP, when applicable. Copies of the applicable SWPPP are kept at each facility listed under 4.6.D above. Digital copies of the SWPPP are kept on the Company G-drive.



**4.6.J Flood Management Projects**

*The MS4 Operator shall maintain procedures to determine if there are impacts to water quality for new flood management projects, if applicable. Any flood management projects shall require 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.*

Any new flood management projects will be subject to the water quality standards that will be established in the proposed stormwater design manual discussed in 4.5.A. The design manual is expected to be adopted by September 2027.

Flood management projects in the Plan Area can include:

- Regional storm water control (retention basins, detention basins);
- Flood control levees and associated pump stations;
- Storm water drainage conveyance capacity improvements;
- Projects involving land buyouts; and
- Designated uses of floodplain land.

Have there been any such flood management projects to review?		
Year	Yes/no	If yes, the location(s)
2026		
2027		
2028		
2029		
2030		

**4.6.K Review/Update of Pollution Prevention/Good Housekeeping Program for Existing Permittees**

*Existing permittees: Shall evaluate the current Stormwater Management Program including training, inspection procedures, and other municipal operation procedures to ensure compliance with these requirements. Any changes necessary to be in compliance with this permit shall be completed within one (1) year of this permit issuance.*

**4.6.L** Jasper County is not a new permittee, so 4.6.L is not applicable.

**4.6.M Adaptive Management**

*Using adaptive management, all MS4 Operators shall review their Municipal Operations Program, at minimum, annually and update implementation procedures as necessary within the permit requirement.*



Annual Review of MCM 6			
Year reviewed	Date of review	Reviewer(s)	Were changes made and noted?
2026			
2027			
2028			
2029			
2030			

Table MCM6. Pollution Prevention/Good Housekeeping Program BMPs

Stormwater Goal (BMP)	Permit Section	Implementation Date	Update Frequency	Responsible Party	Measurable Goal	Tracking
O&M Manual						
Maintain & Utilize Stormwater Pollution Prevention Plan (SWPPP) for Old Road Barn & Sheriff Garage Facilities	4.6.D 4.6.E 4.6.F 4.6.G 4.6.H 4.6.I 4.6.J	Complete	As needed	Steve McKarus	Maintain & utilize SWPPP for Old Road Barn & Sheriff Garage Facilities.	Are any updates needed? If so, have they been completed?
Facility Inspections						
Maintain PPGH Inspection Checklists and BMP Maps for Old Road Barn & Sheriff Garage Facilities	4.6.I	Complete	As needed	Steve McKarus	Develop PPGH Inspection Checklists for Old Road Barn & Sheriff Garage Facilities. Develop map of each facility's BMPs. Include in SWPPP listed above.	Are any updates needed? If so, have they been completed?
PPGH Inspections for Old Road Barn & Sheriff Garage Facilities	4.6.1	Ongoing	Repeat Annually	Steve McKarus	Use PPGH Inspection Checklists & maps to perform annual inspections of Old Road Barn & Sheriff Garage Facilities.	Inspections tracked by keeping Checklists on file.
Education/Training/Review						
Maintain Staff Training Material for MCMs 3, 4, 5, & 6. Keep records of material used for later reuse.	4.6.A 4.6.B 4.6.C 4.3.Q 4.4.K 4.5.L	Complete	As needed	Debbie Darby	Maintain Appropriate Staff Training Material for MCMs 3, 4, & 5. (See listed SWMP sections.) Keep records of material used for later reuse.	Has training material changed? (To be recorded in Appendix MCM6 of this SWMP document.)
PPGH Staff Training Program	4.6.A 4.6.B 4.3.Q 4.4.K 4.5.L	Ongoing	As needed	Debbie Darby	Provide stormwater training for County staff according to the Stormwater Program Training Schedule (Part 4.6-MCM 6-page 3 of this SWMP). Training frequency and topics are listed on the Schedule.	Track names/number of staff trained in sections 4.6.A & 4.6.B of the SWMP. Record Topics covered and material used.
Annual Review of MCM 6	4.6.M	Each January	Each January	Debbie Darby	Perform annual review of MCM 6 BMPs.	Note review date and any changes in section 4.6.M of SWMP document.

## Part 5 – Monitoring, Recordkeeping, and Reporting

### 5.2 Recordkeeping

*All records required by this permit may be maintained electronically, as long as they are accessible upon request by the Department. If a non-electronic version is kept, the permittee shall retain the most recent versions of the records and shall be accessible to the Department upon request.*

### 5.3 MS4 Stormwater Management Program Report

- A. A report to the Department on the status of the MS4's program is **due annually on** or before **February 28th**. This report shall cover the previous year from **January 1<sup>st</sup> to December 31<sup>st</sup>**. The report shall be submitted on the Department approved, MS4 Stormwater Management Program Report form. If approved by the Department, permittees may submit the MS4 Stormwater Management Program Report using an alternative report format.
- B. The annual reports must be submitted through the eDMR system. This is accessible through the Missouri Gateway for Environmental Management (MoGEM): <https://dnr.mo.gov/mogem/>

Which County Staff have access to the eDMR system?	
NAME	Role in the eDMR system
Debbie Darby*	Organization Official (MS4 Permit)
Paige Massey	Organization Official
Alicia Simmons	Organization Official
Sarah Simon (Allgeier Martin)	Preparer
Terri Benford	Viewer
Ronda Crabtree	Viewer

# Part 6 – Special Conditions for Total Maximum Daily Loads

## 6.1 MS4s Subject to Total Maximum Daily Loads (TMDL)

### 6.1.A MS4s Subject to Wasteload Allocation (WLA)

*Any regulated MS4 identified in an EPA approved or established TMDL with an applicable Wasteload Allocation (WLA) shall implement steps toward the attainment of applicable WLAs in accordance with 40 CFR 122.44(k)(2) and (3).*

### 6.2.B TMDL Assumptions and Requirement Attainment Plan (ARAP)

*The MS4 Operator shall develop a TMDL ARAP to address the TMDL's assumptions and requirements where applicable.*

The County of Jasper is subject to the 2022 TMDL for Center Creek, with a single, aggregated Wasteload Allocation number assigned collectively to all MS4s in the watershed. However, the Missouri Department of Natural Resources has determined that this TMDL **does not** trigger the MS4 ARAP requirement. In an email sent on February 6, 2025, Aaron Nickolotsky (Stormwater Coordinator for the Water Protection Program/Water Pollution Control Branch) stated:

*“... the Center Creek, Bens Branch, and Center Creek Tributary TMDL does not trigger the ARAP requirement found in MS4 permits due to the following language that is included in the Approved TMDL: “The permit conditions of the MS4 contain BMPs that are designed to reduce pollutant loads to the maximum extent practicable. The WLA for the MS4 is therefore set at current conditions plus inclusion of the BMPs.”*

So, Jasper County does not need to prepare an ARAP or submit annual ARAP reports.

APPENDIX **MCM 1**

PUBLIC EDUCATION  
& OUTREACH

SUPPORTING DOCUMENTS

This space reserved, as needed, for documentation of Public Education activities listed in Table MCM 1.

# APPENDIX MCM 2

## PUBLIC PARTICIPATION

## SUPPORTING DOCUMENTS

This space reserved, as needed, for documentation of Public Participation activities.

This documentation includes, but is not limited to:

- Proof of public notice period dates.
  - Receipts for newspaper postings,
  - Dated screenshots of website postings,
  - etc.
- Proof of annual update to County Commission.
  - Copy of agenda (with date), etc.

APPENDIX **MCM 3**

ILLICIT DISCHARGE  
DETECTION & ELIMINATION

CHECKLISTS AND  
SUPPORTING DOCUMENTS

# Illicit Discharge Inspection Field Sheet

## Section 1: Background Data

Outfall ID:	
Today's date:	Time:
Investigators:	Form completed by:
Temperature (°F):	Rainfall (in.): Last 24 hours: Last 48 hours:
Camera:	Photo #s:
Notes (e.g., origin of outfall, if known):	

## Section 2: Outfall Description

LOCATION	MATERIAL	CROSS-SECTION (SHAPE)	DIMENSIONS (IN.)	SUBMERGED	
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> Concrete <input type="checkbox"/> Corrugated Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____  Depth: _____ Top Width: _____ Bottom Width: _____	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open channel	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____		
Flow Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

## Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	Stop watch
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	_____ ' (Top) _____" (Bottom)	Ft	Tape measure
	Measured length	_____ ' _____"	Ft	Tape measure
	Time of travel		S	Stop watch
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	

# Illicit Discharge Inspection Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow?  Yes  No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables - Does Not include trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present?  Yes  No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling    Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

<input type="checkbox"/> Unlikely <input type="checkbox"/> Potential (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with a severity of 3) <input type="checkbox"/> Obvious
---

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

**Standard Operating Procedures  
for  
Field Response  
to Spills &  
Reports of Illicit Discharge**

**JASPER COUNTY, MISSOURI**

December 2023

# **Standard Operating Procedures for Field Response to Spills & Reports of Illicit Discharge**

## **In-Office Activities:**

### 1) Gather pertinent information:

- Responsible Party - name, title, Phone #, location.
- Complainant - name, title, Phone #, location.
- Water body, incident location, suspected source.
- Details of what happened & when.
- Contact info for Environmental Response
  - Jasper County Health Department – (417)358-3111
  - Sheriff Department – 417-358-8177 (non-emergency)
  - MDNR Environmental Emergency Response 573-638-2436 (Must report if there is contamination of Waters of the State, a fish kill, or a fuel spill of more than 50 gallons.)

### 2) Gather Equipment:

- Spill response kit (sampling equipment-bottles, equipment, gloves, chain of custody, SOP etc...)
- Phone,
- Camera,
- GPS,
- Boots/ waders / field gear,
- Copy of name/numbers of people that you may need to contact.

## **On-Site Activities:**

NOTE: Do not touch the discharge unless you know it is safe.

- 1) Determine leading edge of discharge in order to evaluate extent of damage.
- 2) Locate source and work to get discharge stopped (if applicable). Use “Tracing the Source” procedures found on page 17 of the Field Investigation Guide for Illicit Discharge Detection & Elimination.
- 3) Require mitigation activities as needed such as dams, diversions, booms, etc. When possible (considering terrain and amount of discharge), require vacuum trucks, or other physical removal of the discharge.
- 4) Collect samples if possible. Sample locations:
  - Area where discharge entered stream,
  - Upstream of discharge,
  - Any storm system where contaminants were discharged,
  - Area where discharge is at time of investigation,
  - Area downstream of discharge.
- 5) Take notes of other life in stream, such as macroinvertebrates, algae, and fish. Note their size and behavior.

- 6) Isolate source with samples, photos, and other evidence. Eliminate other possible sources through sampling and photos.
- 7) If rainfall is a factor, determine duration, amount, and intensity.
- 8) Interview neighbors/employees as necessary to determine any other pertinent information on incident.
- 9) Request that the responsible party post public notice signs if there is possible impact for human health and is in a public access area.
- 10) Collect Field Notes:
  - Arrival time,
  - Sample collection times,
  - Departure time,
  - Contacts,
  - Others involved,
  - Document any actions by responsible party, and
  - Time spent on investigation.

**Standard Operating Procedures  
for  
Illicit Discharge Enforcement**

**JASPER COUNTY, MISSOURI**

December 2023

# Summary of Enforcement Procedures for Illicit Discharge

Upon discovery of an illicit discharge and determination of its source, Jasper County (Health Department) and/or designee shall follow the procedures below. Regulations noted refer to the “Stormwater Illicit Discharge and Connection Ordinance” (IDDE Ordinance), located under the Ordinances heading at <https://www.jaspercountymmo.gov/storm-water-management>.

**NOTE:** If the violation constitutes an immediate danger to public health or public safety, the Department of Public Works and/or designee is authorized to enter upon the subject private property, without giving prior notice, to take any and all measures necessary to abate the violation and/or restore the property. (Skip to Item 8 below.)

## 1) NOTICE OF VIOLATION: (IDDE Ordinance, Sections 14 & 15.)

Upon discovery of an illicit discharge and determination of its source, the County (Health Department) and/or designee may order compliance by written notice of violation to the responsible person. The notice of violation should contain:

- a. The name and address of the alleged violator;
- b. The address, when available, or a description of the building, structure or land upon which the violation is occurring, or has occurred;
- c. A statement specifying the nature of the violation;
- d. A description of the remedial measures necessary to restore compliance with the IDDE Ordinance and a time schedule for the completion of such remedial action;
- e. A statement of the penalty or penalties that shall or may be assessed against the person to whom the notice of violation is directed;
- f. A statement that the determination of violation may be appealed to the County by filing a written notice of appeal within ten (10) days of service of Notice of violation;
- g. A statement specifying that, should the violator fail to restore compliance within the established time schedule, the work will be done by a designated governmental agency or a contractor and the expense thereof shall be charged to the violator.
- h. The Notice of Violation may require without limitation:
  - i. The performance of monitoring, analyses, and reporting
  - ii. The elimination of illicit connections or discharges;
  - iii. That violating discharges, practices, or operations shall cease and desist;
  - iv. The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property;
  - v. Payment of a fine to cover administrative and remediation costs; and
  - vi. The implementation of source control or treatment BMPs.

*Compensatory Action:* In lieu of enforcement proceedings, penalties, and remedies authorized by the IDDE Ordinance, the Department of Public Works and/or designee may impose upon violator alternative compensatory actions, such as storm drain stenciling, attendance at compliance workshops, creek cleanup, etc. (IDDE Ordinance Section 19)

2) PERMITTEE'S RESPONSE TO WRITTEN NOTICE:

- a. The permittee should investigate immediately and take any action required to cease the illicit discharge. Such actions are to be taken within seventy-two (72) hours, or within a reasonable time after receipt of notice. All actions taken are to be reported to the County within the designated time period.
- b. Time may be extended if weather conditions or other factors beyond the control of the permittee prevent immediate remedial action.

3) NOTICE OF COMPLIANCE:

Upon satisfactory cessation of discharge and any required remedial work the County (Health Department) will issue a Notice of Compliance.

4) FAILURE TO COMPLY WITH NOTICE OF VIOLATION: (IDDE Ordinance, Sections 16, 17, & 22)

If the violation has not been corrected pursuant to the requirements set forth in the notice of violation:

- a. *Remedial Action by County:* The County (Health Department) and/or designee shall enter upon the subject private property and are authorized to take any and all measures necessary to abate the violation and/or restore the property.
- b. *Denial of Entrance to Property:* It shall be unlawful for any person, owner, agent or person in possession of any premises to refuse to allow the government agency or designated contractor to enter upon the premises for the purposes set forth above.
- c. *Cost of Abatement:*
  - i. Within thirty (30) days after abatement of the violation, the owner of the property will be notified of the cost of abatement, including administrative costs.
  - ii. The property owner may file a written protest objecting to the amount of the assessment within ten (10) days. If the amount due is not paid within a timely manner as determined by the decision of the municipal authority or by the expiration of the time in which to file an appeal, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment.
  - iii. Any person violating any of the provisions of the IDDE Ordinance shall become liable to the County by reason of such violation.
  - iv. The County and/or designee may recover all attorneys' fees court costs and other expenses associated with enforcement of the IDDE Ordinance, including sampling and monitoring expenses.

5) APPEALS: (IDDE Ordinance, Section 15)

Any person receiving a notice of violation may appeal the determination of the County and/or designee according to the procedures set forth in the IDDE Ordinance, Section 15.

6) ENFORCEMENT MEASURES AFTER APPEAL: (IDDE Ordinance, Section 16)

In the event of an appeal, if the violation has not been corrected within thirty (30) days of the decision of the municipal authority upholding the decision of the County and/or designee, then Item 4 above will apply.

7) CRIMINAL PROSECUTION: (IDDE Ordinance, Sections 20 & 21)

- a. *Violations Deemed a Public Nuisance:* In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of the IDDE Ordinance is a threat to public health, safety, and welfare, and is declared and deemed a

nuisance, and may be summarily abated or restored at the violator's expense, and/or a civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken.

- b. *Criminal Prosecution:* Any person that has violated or continues to violate the IDDE Ordinance shall be liable to criminal prosecution to the fullest extent of the law. The County may recover all attorney's fees, court costs, and other expenses associated with enforcement, including sampling and monitoring expenses.

#### **FOR EMERGENCY SITUATIONS AND/OR CONTINUING VIOLATIONS:**

##### 8) SUSPENSION OF MS4 ACCESS: (IDDE Ordinance, Section 8)

- a. *Suspension due to Illicit Discharges in Emergency Situations.* The County and/or designee may, without prior notice, suspend MS4 discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or to the MS4 or waters of the United States. If the violator fails to comply with a suspension order issued in an emergency, the County and/or designee may take such steps as deemed necessary to prevent or minimize damage to the MS4 or waters of the United States, or to minimize danger to persons.
- b. *Suspension due to the Detection of Illicit Discharge.* Any person discharging to the MS4 in violation of the IDDE Ordinance may have their MS4 access terminated if such termination would abate or reduce an illicit discharge. The County and/or designee will notify a violator of the proposed termination of its MS4 access. The violator may petition the County for a reconsideration and hearing. A person commits an offense if the person reinstates MS4 access to premises terminated pursuant to the IDDE Ordinance, without the prior approval of the County and/or designee.

APPENDIX **MCM 4**

CONSTRUCTION SITE  
STORMWATER RUNOFF CONTROL

CHECKLISTS AND  
SUPPORTING DOCUMENTS

**STORMWATER INSPECTION CHECKLIST for LAND DISTURBANCE**

Jasper County, Missouri · Environmental Office

105 Lincoln St. · Carthage, MO 64836 · (417) 358-3111

This form is to be used for stormwater inspections by Jasper County inspection staff. A copy of this form is to be left with the development's responsible party, on-site if feasible. Form updated Dec. 2023

**County Site** \_\_\_\_\_ **MDNR**  
**Date of Inspection:** \_\_\_\_\_ **Development Permit #:** \_\_\_\_\_ **LD Permit #:** \_\_\_\_\_

**Project Name/Location:** \_\_\_\_\_ **Contractor/Owner:** \_\_\_\_\_

**Inspection Type:**     Regular     Rain Event (Amt. \_\_\_\_\_ )     Complaint     Drive-By     Final

**Inspected by:** \_\_\_\_\_

SWPPP Review		Adequate	Needs Maintenance	Comply By	Comments
1	SWPPP is on site and updated with records attached?	<input type="checkbox"/>	<input type="checkbox"/>		
2	Permit sign/notice is posted at construction site?	<input type="checkbox"/>	<input type="checkbox"/>		
3	Inspections performed every 14 days and after rain events?	<input type="checkbox"/>	<input type="checkbox"/>		

Best Management Practices (BMPs)		Adequate	Needs Maintenance	Comply By	Comments
4	Streets & other property free of sediment & trash?	<input type="checkbox"/>	<input type="checkbox"/>		
5	Construction debris & trash properly covered/disposed?	<input type="checkbox"/>	<input type="checkbox"/>		
6	Perimeter controls properly installed & maintained?	<input type="checkbox"/>	<input type="checkbox"/>		
7	Inlet protection properly installed & maintained?	<input type="checkbox"/>	<input type="checkbox"/>		
8	Washout facilities available, marked, & maintained?	<input type="checkbox"/>	<input type="checkbox"/>		
9	Construction entrance properly constructed/maintained/ utilized?	<input type="checkbox"/>	<input type="checkbox"/>		
10	Disturbed areas stabilized after activity has ceased for 14 days?	<input type="checkbox"/>	<input type="checkbox"/>		
11	Discharge points & receiving waters free of sediment?	<input type="checkbox"/>	<input type="checkbox"/>		
12	Other erosion & sediment controls properly installed/constructed/maintained according to SWPPP?	<input type="checkbox"/>	<input type="checkbox"/>		
13	Stockpiles stabilized or contained by a BMP?	<input type="checkbox"/>	<input type="checkbox"/>		
14	Are permanent stormwater controls being implemented?	<input type="checkbox"/>	<input type="checkbox"/>		
15	Temporary BMPs no longer needed are removed?	<input type="checkbox"/>	<input type="checkbox"/>		
16	Fuel storage areas have secondary containment?	<input type="checkbox"/>	<input type="checkbox"/>		
17	Solvents, paints, fertilizers, etc. stored in a manner prohibiting exposure to rain or runoff?	<input type="checkbox"/>	<input type="checkbox"/>		
18	Dewatering operations filtering sediment/pollutants?	<input type="checkbox"/>	<input type="checkbox"/>		
19	Dust control practices utilized?	<input type="checkbox"/>	<input type="checkbox"/>		
20	Are natural resource areas (streams, wetlands, mature trees, stream buffers, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/>	<input type="checkbox"/>		

**Action Taken:**     Verbal Warning     Written Warning     Stop Work Notice

**Additional Comments:**

See photos.

**Additional Comments:**

“I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.”

**Inspector's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

# **Stormwater Construction Inspection Tips and Procedures**

**Jasper County, MO**

December 2023

## Inspection Procedures Overview

An on-site construction site inspection will usually consist of the following components, followed by the development of an inspection report:

- Pre-Inspection Preparation
- Entry
- Records Review
- Site Inspection
- Exit Interview

## Pre-Inspection Preparation

### *Prioritize your sites*

- With stream buffers or environmentally sensitive areas
- Contractors with a history of non-compliance or frequent violations
- Projects on steep slopes or with major grading plans
- Commercial/Industrial or high density subdivisions

### *Review available files*

- Permits
- Stormwater Pollution Prevention Plan (SWPPP) or Erosion and Sediment Control (ESC) plans
- Past inspection reports
- Monitoring/assessment reports
- Maintenance records

### *Identify significant pollutant sources and Best Management Practices (BMPs) you want to inspect*

- Silt fence, sediment basins/silt traps, slope stabilization, etc.

## Entry

### *Before entering the site*

- Observe surroundings and various stages of construction
- Look at the construction exit locations and perimeter controls
- Enter date/time and weather conditions on the inspection form

### *When entering the site*

- Review all postings
- Public Notification Sign in place and visible from construction entrance?
- Announce yourself to the person in charge

## Records Review

Ask to see a copy of the SWPPP, permit, and inspection reports

- Specific items to review:
  - SWPPP
    - Date and preparer
    - Primary ESC BMPs used on-site
      - Are all BMPs required by the SWPPP in place?
      - Have BMPs been installed correctly and maintained?
        - Amendments to design, construction, or maintenance
          - \* If a SWPPP is not available for review, note the lack of an on-site SWPPP on the inspection form.

- Inspection and maintenance records
  - Operator is required to inspect the site:
    - Once every fourteen days,
    - Within 72 hours of any rain event, and
    - Within 48 hours of any storm event of 3.89” or more in 24 hours.
  - Permanent stormwater management practices
  - Pollution prevention practices
  - Discharge points
  - Amendments to design, construction, maintenance, weather or seasonal conditions
- Site Map
  - Should be up to date with construction activities
  - Should be red-lined and dated

## Site Inspection

### *Inspect discharge points and downstream, off-site areas for signs of impact*

- If sediment is leaving the site, walk downstream and document the extent of travel and impact on receiving waters or storm drains.
- Inspect down-slope inlets

### *Inspect Perimeter Controls*

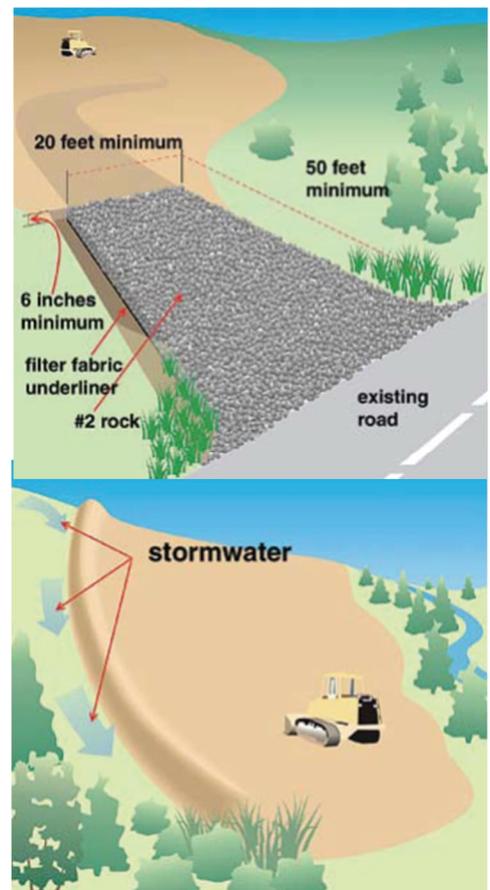
- Note what controls are being used and if they’re installed correctly and being maintained
- Inspect the construction entrance to determine if there is excessive tracking
- Check sediment controls and make sure inlets are protected.

### *Stabilized Construction Entrance*

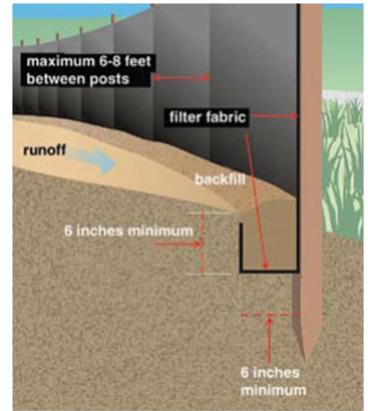
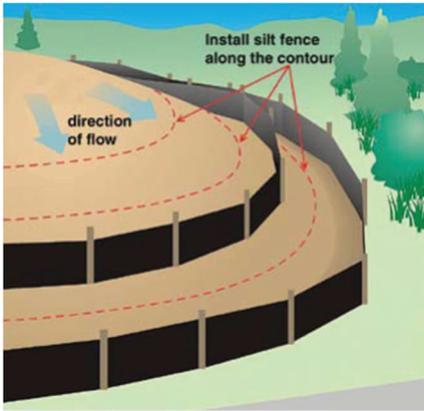
- If there is track-off from the entrance, the operator has 12 hours to clean it up.
- Are vehicles leaving the site from other locations and not using the designated entrance/exit?
- Does the rock need to be replaced, replenished, or raked?
- Is the entrance/exit long enough to remove mud from tires?
- Is the site graded away from the entrance/exit to prevent runoff from leaving the site?

### *Diversion Berms*

- Make sure the diversion discharges to a stable outlet or channel.
- Make sure diversion ditches and berms have been seeded.
- Is the diversion eroding? (channel grades should be relatively flat)
- Check dams may be necessary if high velocity flows are present.



## *Silt Fence*



- Is the silt fence installed along the contour (on a level horizontal plane)?
- Are the ends turned up to help pond the water behind the filter? – J-hooks
- Is the filter trenched in with the stakes on the downhill side (6" deep by 6" wide)?
- Has the sediment been removed when it reached 1/3 the height of the barrier?
- Filters should not be installed where concentrated flow is expected
  - Inadequate installation
    - Soil should be compacted after trenching
    - Stakes should be on the downhill side
  - Improper placement
    - Should not be used for steep, long slopes
    - Drainage area should be no greater than 1/4 acre per 100 ft. of fence
      - Should be spaced 60-110 ft. apart on long slopes
  - Maintenance
    - Torn or degraded silt fence fabric should be replaced immediately
    - Sediment should be removed after reaching 1/3 the height of the fence

## *Temporary Silt Traps*

- Check the location of the silt trap to make sure if it fails that it doesn't pose a risk to life or property
- Silt should be removed after it reaches 1/3 the design volume
- The trap should not be installed in a mainstream or near culvert outlets
- Check the outlet for needed maintenance

## *Vegetative Stabilization*

- Are all exposed soil areas stabilized?
- Check for signs of erosion in vegetated areas
- Concentrated flows should not be allowed across newly seeded slopes
- If late in the year, the slope may need to be mulched versus seeded

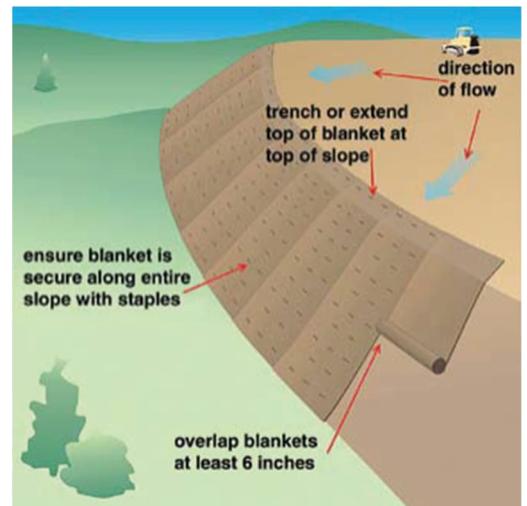


### ***Compare BMPs in the SWPPP with construction site conditions***

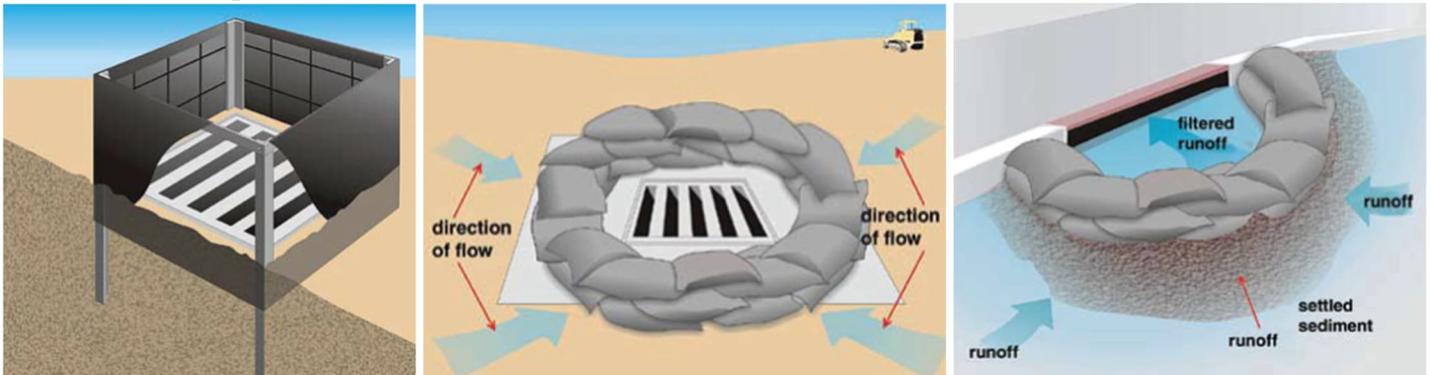
- Are additional BMPs needed? Look for areas where BMPs are needed, but are missing
- Describe potential violations and their locations.

### ***Mats, mulches, and blankets***

- Should come into complete contact with the soil.
- The top of the blanket should be trenched in – water shouldn't flow underneath it.
- Mulch should not be placed in concentrated flow areas.
- If erosion is occurring in mulched areas, more mulch may need to be applied.
- Check blankets and mats to see if sections are overlapped 4-6 inches and staples are 12 inches apart on tops and 24 inches apart down the sides and in the middle.



### ***Storm drain inlet protection***



- Inlet protection is a secondary BMP. Additional controls are also needed.
- Should not block the storm drain or cause flooding
- Should be in place immediately following storm drain installation, or prior to any land disturbance for existing inlets
- Sediment should be removed after each storm event
- Make sure unfiltered stormwater cannot enter the inlet
- If there's a specific safety concern, the BMP can be removed temporarily.

### ***Inspect disturbed areas not currently being worked.***

- All exposed soil areas must be stabilized no later than 14 days after the construction activity in that area has temporarily or permanently ceased.
- Temporary seed or straw, permanent seed or straw.

### ***Inspect areas with final stabilization.***

- Inspect stabilized areas to ensure that excessive erosion isn't occurring.
- If an area has uniform perennial vegetative cover (100%) with 70% density of the entire area, temporary BMPs need to be removed.

## **Taking Photographs**

### *Take photos of*

- Public notification sign
- All potential violations
- General views of the site
- Impacts to receiving waters.

## **Exit Interview**

- Ask to speak to the responsible party for the ESC. If they're not on site, ask to speak to whomever is in charge.
- Let them know what findings you have (deficiencies, areas of concern, SWPPP not updated, inspections not being done, etc.)
- Don't tell them what BMPs to use! You can tell them what typically works/doesn't work.

APPENDIX **MCM 5**

POST-CONSTRUCTION  
STORMWATER MANAGEMENT

CHECKLISTS AND  
SUPPORTING DOCUMENTS

This space reserved for Long-Term BMP Inspection Checklists, to be added once developed.

APPENDIX MCM 6

POLLUTION PREVENTION/GOOD  
HOUSEKEEPING FOR MUNICIPAL  
OPERATIONS

STAFF TRAINING MATERIALS  
AND OTHER  
SUPPORTING DOCUMENTS

# Schedule of Locations for Jasper County MS4 Permit

Print Date: 12/12/23

**Client Name and Address**

County Of Jasper  
Jasper County Courthouse  
Carthage, MO 64836

**MS4  
Area**

Area	Loc. #	Location Address	Tax Code	County Code	Bldg #	Building Description	Date On
C	1	JASPER COUNTY COUTHUSE (302 S Main St) CARTHAGE, MO 64836			1	COURTHOUSE	02/01/23
C	2	308 E CENTRAL AVE / 105 Lincoln St Carthage, MO 64836			1 2	HEALTH DEPT STORAGE BUILDING	02/01/23
C	3	408-12 E 4TH CARTHAGE, MO 64836			1 2 3	COUNTY JAIL RADIO BUILDING REPEATING TOWER	02/01/23
J	4	633 PEARL Joplin , MO 64801			1	COURTHOUSE	02/01/23
J	5	530 S Pearl Joplin , MO 64801			1	Juvenile Detention Center	02/01/23
C	6	125 N RIVER Carthage, MO 64836			1 2 3 4 5 6 7 8 9	ROAD DIST BLDG (OLD STATE BARN & NEW SHOP ATTACHED) ROAD DIST BLDG (4 Bay State Barn) & WASH BARN 3 BAY TRUCK STORAGE SALT BUILDING CANOPY OVER GAS PUMPS 6 BAY TRUCK STORAGE OFFICE EQUIPMENT STORAGE BUILDING EQUIPMENT/TRUCK STORAGE BUILDING	02/01/23
C	7	231 S MAIN CARTHAGE, MO 64836			1	COUNTY OFFICES/SHERIFF OFFICE	02/01/23
V	8	300 E LEWIS Carterville, MO			1	Road Dist Bldg	02/01/23
A	10	5501 N. Dennis Weaver Drive			1	DrugTask Force, 2 story Masonry	02/01/23

**MS4  
Area**

## Schedule of Locations

MS4 Area	Loc. #	Location Address	Tax Code	County Code	Bldg. #	Building Description	Date On
		Joplin , MO 64801					
<b>C</b>	11	200 N River CARTHAGE, MO 64836			1	ROAD DIST-STORAGE BLDG	02/01/23
<b>C</b>	12	114 River CARTHAGE, MO 64836			2	SALT BUILDING	02/01/23
					1	SHERIFF DEPT GARAGE	02/01/23
<b>N</b>	13	Corner of Peace Church & Fountain Road Joplin , MO 64801			1	Civil War Park	02/01/23
<b>C</b>	14	120 Howard Street CARTHAGE, MO 64836			1	concrete block building	02/01/23
<b>C</b>	16	839 E. Central CARTHAGE, MO 64836			1	frame/metal clad storage buliding/road dist metal roof	02/01/23
<b>N</b>	17	Sec 26, Twp 28, Rge 29 CARTHAGE, MO 64836			1	Old School Building (Cave Springs School & Park)	02/01/23
<b>N</b>	24	1100 JAVA CARTHAGE, MO 64836			1	NEW ROAD BARN	02/01/23

These facilities are subject to the requirements of sections 4.6.D & 4.6.F of this SWMP document. See those sections for explanations and requirements.

### MS4 Areas

- C** = Facility located within Carthage's MS4 area, but owned/operated by Jasper County
- J** = Facility located within Joplin's MS4 area, but owned/operated by Jasper County
- V** = Facility located within Carterville's MS4 area, but owned/operated by Jasper County
- N** = Facility owned/operated by Jasper County, but is not regulated under the Jasper County's MS4 Permit because it:
  - Is not located within the unincorporated portions of the 2022 Joplin "Designated Urbanized Area", AND it
  - Is not located within another MS4.
- A** = Shared building located at Joplin Airport. The airport is located within the Joplin MS4 area and operates with its own site-specific NPDES permit, so facility is not regulated under the Jasper County MS4 Permit.

## **Stormwater Program Training Schedule**

1. In-Depth Training for Pollution Prevention/Good Housekeeping (PPGH) – MCM6
  - a. Frequency: ANNUAL
  - b. Topics: See table in section 4.6.B.
  - c. Applicable Staff :
    - i. Building maintenance/custodial staff
    - ii. Fleet maintenance staff;
    - iii. Staff at facilities with fuel, chemicals, washing of vehicles or equipment;
    - iv. Road maintenance staff;
    - v. Road salt/de-icing staff; and
    - vi. Parks, swimming pool, or golf course staff who encounter spills, equipment or vehicle washing, fueling, chemicals, etc.
  
2. General Training for Pollution Prevention/Good Housekeeping – MCM6
  - a. Frequency:
    - i. Existing Employees: Initial training
    - ii. New Employees: Within one year of being hired
    - iii. Additional training as needed.
  - b. Applicable Staff: All employees not listed in number 1 above.
  
3. Illicit Discharge Detention and Elimination (IDDE) Training – MCM3
  - a. Frequency:
    - i. Existing Employees: Initial training
    - ii. New Employees: Within one year of being hired
  - b. Applicable staff include:
    - i. IDDE inspection staff;
    - ii. Building inspection staff;
    - iii. Construction inspection staff;
    - iv. Fleet maintenance staff;
    - v. Staff at facilities with fuel, chemicals, washing of vehicles or equipment;
    - vi. Road maintenance staff;
    - vii. Road salt/de-icing staff; and
    - viii. Parks, swimming pool, or golf course staff who encounter spills, equipment or vehicle washing, fueling, chemicals, etc.
    - ix. Police
  
4. Training for Construction Site Runoff Control & Post-Construction Stormwater Management – MCM4 & MCM5
  - a. Frequency: Once per permit cycle (Oct 2026-Sept 2031)
  - b. Applicable staff include:
    - i. Construction Inspection staff;
    - ii. Inspection staff for Long-Term BMP inspections

# Staff Training Resources

## Training Category (from SW Program Training Schedule p 4.6.7 of SWMP)

## Specific In-Depth Topics (from Table 4.6.B)

Subject	Type	Source	Resource Title	Link	Est. Time	Training Category					Specific In-Depth Topics										
						In-Depth PPGH Training	General PPGH Training	IDDE Inspector Training	Constr. Site SW Inspector Training	Post-Const. SW Mgmt	1	2	3	4	5	6	7	8	9	10	11
<b>In-Depth PPGH - for all City staff listed as needing In-Depth PPGH training (under number 1 of the SW Program Training Schedule (p 4.6.3 of SWMP))</b>																					
In-Depth PPGH Playlist	YouTube Video	Wyoming Valley Sanitary Authority	Stormwater Training for Municipal Employees" (Playlist, includes the following 7 videos)	<a href="https://www.youtube.com/playlist?list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl">https://www.youtube.com/playlist?list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl</a>	70 min total	x															
PPGH Training Introduction			Stormwater Training for Municipal Employees - Part 6	<a href="https://www.youtube.com/watch?v=9dw7YLgK8d0&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=6">https://www.youtube.com/watch?v=9dw7YLgK8d0&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=6</a>	10 min		x														
Fleet Maintenance & Materials Handling			Stormwater Training for Municipal Employees - Part 1	<a href="https://www.youtube.com/watch?v=TQXOK0b5MZc&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=1">https://www.youtube.com/watch?v=TQXOK0b5MZc&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=1</a>	9 min	x					x	x	x			x					
Construction Activities and Land Disturbance			Stormwater Training for Municipal Employees - Part 2	<a href="https://www.youtube.com/watch?v=rnTg_Jljz98&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=2">https://www.youtube.com/watch?v=rnTg_Jljz98&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=2</a>	9 min	x								x							
Parks and Grounds Maintenance			Stormwater Training for Municipal Employees - Part 3	<a href="https://www.youtube.com/watch?v=dVGrLaPxZ7Y&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=3">https://www.youtube.com/watch?v=dVGrLaPxZ7Y&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=3</a>	9.5 min	x				x		x	x	x		x	x				
Solid Waste Management (Floatables, Trash Collection, Transfer Stations, Mulching Operations, Landfill and Composting Operations)			Stormwater Training for Municipal Employees - Part 4	<a href="https://www.youtube.com/watch?v=rNhhI9RcFqQ&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=4">https://www.youtube.com/watch?v=rNhhI9RcFqQ&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=4</a>	9.5 min	x					x	x	x			x	x				
Streets and Drainage Maintenance			Stormwater Training for Municipal Employees - Part 5	<a href="https://www.youtube.com/watch?v=kWqgQb6pVr8&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=5">https://www.youtube.com/watch?v=kWqgQb6pVr8&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=5</a>	9.5 min	x					x	x	x		x	x					
General IDDE			Illicit Discharge Detection and Elimination (IDDE) Training	<a href="https://www.youtube.com/watch?v=5bUleWbL1XI">https://www.youtube.com/watch?v=5bUleWbL1XI</a>	7 min	x				x							x				
<b>General PPGH - for all City staff not listed as needing In-Depth PPGH training under number 1 of the SW Program Training Schedule (p 4.6.3 of SWMP)</b>																					
PPGH Training Introduction	YouTube Video	Wyoming Valley Sanitary Authority	Stormwater Training for Municipal Employees - Part 6	<a href="https://www.youtube.com/watch?v=9dw7YLgK8d0&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=6">https://www.youtube.com/watch?v=9dw7YLgK8d0&amp;list=PLPSDayYowbrdhFazirsTjuX7YMu3B1gsl&amp;index=6</a>	10 min		x														
<b>Illicit Discharge Inspection Staff - MANDATORY ADDITIONAL TRAINING - Subject-specific resources, to be used in addition to In-Depth PPGH videos above.</b>																					
General IDDE	YouTube Video	Wyoming Valley Sanitary Authority	Illicit Discharge Detection and Elimination (IDDE) Training	<a href="https://www.youtube.com/watch?v=5bUleWbL1XI">https://www.youtube.com/watch?v=5bUleWbL1XI</a>	7 min					x							x				
IDDE Field Guide	Document	Jasper County	Illicit Discharge Field Guide	<a href="https://www.jaspercountymo.gov/storm-water-management">https://www.jaspercountymo.gov/storm-water-management</a>	n/a					x							x				



# Staff Training Resources

## Training Category (from SW Program Training Schedule p 4.6.7 of SWMP)

## Specific In-Depth Topics (from Table 4.6.B)

Subject	Type	Source	Resource Title	Link	Time	Training Category					Specific In-Depth Topics										
						In-Depth PPGH Training	General PPGH Training	IDDE Inspector Training	Constr. Site SW Inspector Training	Post-Const. SW Mgmt	1	2	3	4	5	6	7	8	9	10	11
Extra Resources - Use as needed, in addition to In-Depth PPGH videos above.																					
General IDDE	Youtube Video	Washington Conservation District	Illicit Discharge Detection and Elimination (IDDE) - For General Staff Education	<a href="https://www.youtube.com/watch?v=5bUleWbL1XI">https://www.youtube.com/watch?v=5bUleWbL1XI</a>	3.5 min	x		x									x				
Salt & De-icing Operations	Youtube Video	IowaDOT	Anti-Icing and Deicing - Winter Operations Training Series 12 of 15	<a href="https://www.youtube.com/watch?v=HZI_ZbWyblU">https://www.youtube.com/watch?v=HZI_ZbWyblU</a>	7.5 min	x											x				
Salt & De-icing Operations	Document	APWA	Brine Fact Sheet	<a href="https://sicop.transportation.org/wp-content/uploads/sites/36/2017/07/5.6-APWA-03-Salt-Brine-Fact-Sheet.pdf#:~:text=BRINE%20APWA%20Winter%20Maintenance%20Sub-Committee%20FACT%20SHEET%20Anti-icing,bond%20after%20snow%20has%20frozen%20to%20the%20road.">https://sicop.transportation.org/wp-content/uploads/sites/36/2017/07/5.6-APWA-03-Salt-Brine-Fact-Sheet.pdf#:~:text=BRINE%20APWA%20Winter%20Maintenance%20Sub-Committee%20FACT%20SHEET%20Anti-icing,bond%20after%20snow%20has%20frozen%20to%20the%20road.</a>	10 min	x											x				
Salt & De-icing Operations	Various	Minnesota	Smart Salt Training	<a href="https://www.pca.state.mn.us/business-with-us/smart-salting-training">https://www.pca.state.mn.us/business-with-us/smart-salting-training</a>	n/a	x											x				

Additional Resources - Add as needed																	

PPGH = Pollution Prevention/Good Housekeeping for municipal operations  
 IDDE = Illicit Discharge Detection and Elimination  
 SW = Stormwater  
 Const. = Construction

In-Depth Topics from SWMP Table 4.6.B  
 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