

Phase II Small Municipal Separate Storm Sewer System (MS4)

Stormwater Management Program (SWMP)

for the
City of Bartlesville, Oklahoma



Effective Date:
January 29th, 2016
Revised December 31, 2023

SIGNATURE OF RESPONSIBLE OFFICIAL

for the City of Bartlesville, Oklahoma

Per OKR04 Part VI.H, the following certification is hereby made in order to comply with the signatory requirements of the State of Oklahoma's Phase II Stormwater General Permit for Small Municipalities (OKR04).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Micah Siemers, Director of Engineering

Date

EXECUTIVE SUMMARY

The City of Bartlesville has prepared this Stormwater Management Program (SWMP) document which provides descriptions of all activities that will be conducted on behalf of the City of Bartlesville, to meet its obligations under the Oklahoma Department of Environmental Quality (ODEQ) General Permit for Phase II Small Municipal Separate Storm Sewer System Discharges Within the State of Oklahoma (OKR04), having an effective date of June 1, 2021.

Per OKR04 Part IV.A, this SWMP document will be kept up to date during the term of the permit. Interim progress will be made in developing and implementing program elements during the term of the permit. Per OKR04 Part V.C.1.a.v, a copy of the current SWMP, NOI, and all related records are available to the public for review.

All of the six required Minimum Control Measures (MCMs) have been addressed in this SWMP. The City of Bartlesville has elected NOT to participate in MCM 7; Optional Permit Requirements for Municipal Construction Activities (OKR04 Part VIII).

Each MCM has a number of Best Management Practices (BMPs) that constitute the core activities pertaining to that particular MCM. Appendix A summarize the BMPs including Measurable Goals, target audiences, persons responsible for implementation, and time of year and frequency each will occur. In addition, the SWMP text provides additional information about each MCM.

Every reasonable effort has been made to comply with all requirements of the State's OKR04 General Permit for Small Municipal Separate Storm Sewer Systems (SMS4s). This SWMP document shall be amended as needed to reflect program and implementation changes per requirements of ODEQ and the OKR04 permit.

As a member of Green Country Stormwater Alliance (GCSA), the City of Bartlesville will receive assistance from the Indian Nations Council of Governments (INCOG), to help implement certain aspects of the Phase II requirements, particularly regarding public education, public participation, and training of city staff and crews. Through GCSA, INCOG will provide regional services related to stormwater education, employee training, and technical support. INCOG's activities are described where appropriate throughout the SWMP.

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1.0 INTRODUCTION

In 1990 the U.S. Environmental Protection Agency (EPA) promulgated regulations for establishing water quality based municipal stormwater programs to address stormwater runoff from certain industrial and construction activities and from medium and large Municipal Separate Storm Sewer Systems (MS4s) serving populations of 100,000 or greater. These “Phase I” regulations were incorporated into the existing National Pollutant Discharge Elimination System (NPDES) permit rules that address point source dischargers. As a result, urban nonpoint source runoff became regulated as point source discharges. On December 8, 1999, EPA published final “Phase II” stormwater regulations that addressed urban stormwater runoff from cities under 100,000 population and counties that lie within the Urbanized Area (UA) as designated by the latest US Bureau of Census. Phase II permits were also required for certain non-UA cities designated by the Oklahoma Department of Environmental Quality (ODEQ).

The 1999 EPA Phase II regulations required that all permitted cities and counties must develop a comprehensive Stormwater Management Program (SWMP) that addresses six “Minimum Control Measures” (MCMs). These were:

1. *Public Education and Outreach*
2. *Public Participation and Involvement*
3. *Illicit Discharge Detection and Elimination*
4. *Construction Site Stormwater Runoff Control*
5. *Post Construction Management in New Development and Re-Development*
6. *Pollution Prevention and Good Housekeeping*

The ODEQ has primary jurisdiction over permitting and enforcement of the Phase II Stormwater Program for Oklahoma. On February 8, 2005, the ODEQ finalized the first General Permit for Phase II Small Municipal Separate Storm Sewer System Discharges within the State of Oklahoma (OKR04). On October 1, 2015 ODEQ reauthorized OKR04 with an effective date of November 1, 2015. The revised OKR04 permit reflected new requirements from EPA and the latest practices for controlling urban stormwater pollution.

OKR04 requires that each permittee submit a Notice of Intent (NOI) to apply for coverage and develop a Stormwater Management Program (SWMP) document that specifies, for each MCM, what activities will be performed as Best Management Practices (BMPs), along with BMP implementation schedules and Measurable Goals.

Then, on April 30th, 2021, ODEQ authorized a newly revised OKR04 Permit with an effective date of June 1, 2021. The permit reflects the latest requirements from EPA regarding control of urban stormwater pollution.

This SWMP document has been updated to fulfill the 2021 OKR04 General Permit’s requirement of preparing a plan detailing how the City of Bartlesville MS4 will address the latest requirements regarding non-stormwater discharges within its permitted municipal boundary area.

2.0 SWMP PROGRAM OVERVIEW

2.1 Regulatory Authority

In compliance with the provisions of the Clean Water Act (CWA), Public Law 92-500, as amended, 33 U.S.C. § 1251 *et seq.*; as required under the Stormwater Phase II Rule at 40 CFR §§ 122-124; and the provisions of the Oklahoma Pollutant Discharge Elimination System (OPDES) OAC 252:606-1-3(b)(3), incorporating by reference 40 CFR §§ 122.26, 122.30-122.35; operators of Small Municipal Separate Storm Sewer Systems (MS4s) are authorized to discharge in accordance with the conditions and requirements set forth herein. The Stormwater Phase II Rule was originally published on December 8, 1999, (64 FR 68722) and became effective on February 7, 2000.

The 2021 OKR04 General Permit is a reissuance by the ODEQ with an effective date of June 1, 2021. The OKR04 General Permit and the authorization to discharge shall expire at midnight on May 31, 2026. As provided in the permit, operators of Small MS4s located in areas specified herein and who submit a Notice of Intent (NOI) in accordance with PART III of the general permit are authorized to discharge pollutants to waters of the State in accordance with the conditions and requirements set forth within the general permit.

The 2021 OKR04 General Permit authorizes discharges of stormwater and certain non-stormwater discharges from small MS4s, as defined in 40 CFR § 122.26(b)(16), adopted and incorporated by reference in Oklahoma Administrative Code (OAC) 252:606-1-3(b)(3). This includes MS4s designated under 40 CFR § 122.32(a)(1) and 40 CFR § 122.32(a)(2) that describe the referenced area with a population greater than or equal to (\geq) 10,000 but less than or equal to (\leq) 100,000, and small MS4s located in Urbanized Areas (UAs). Operators of small MS4s located outside of an UA may be designated as a regulated MS4.

This SWMP document is a comprehensive program to manage the quality of stormwater discharged from the municipal separate storm sewer system (MS4). It includes all of the actions that the City of Bartlesville will take to comply with the stormwater regulations and addresses the six “Minimum Control Measures” required by EPA and by ODEQ’s Phase II General Permit for Small MS4s (OKR04).

All information contained in this SWMP represents a good faith effort on the part of the City of Bartlesville to comply with all requirements of the current OKR04 Permit. This SWMP will be reviewed annually and amended, if necessary, to meet requirements of the current OKR04 General Permit, therefore ensuring continued compliance with the CWA.

2.2 SWMP Organization

The SWMP’s organization was assisted by staff at INCOG’s Green Country Stormwater Alliance (GCSA). GCSA is a regional coalition of stormwater permitted cities and counties in Oklahoma. INCOG’s support services include assistance in the following areas:

- Public education and participation;
- Mapping of MS4s, 303(d) waterbodies and TMDLs;
- Employee training on OKR04-required topics and technical, scientific and legal issues;
- Sampling, monitoring and quality assurance;
- GCSA member education about water quality, sensitive waterbodies, TMDLs, etc.
- Educating local councils, commissions and management about OKR04 requirements.
- Development of local codes and ordinances, and
- Data management and reporting.

This SWMP addresses all elements of ODEQ's General Permit for MS4s (OKR04). The six Minimum Control Measures from OKR04 Part V.C are addressed in the SWMP Section 3.0. Appendix A is a summary table of all BMPs selected by the City of Bartlesville, to be used in this program. The table includes the following for each selected BMP: applicable MCMs, implementation schedule, measurable goal, target audience, and person(s) responsible for implementation. Appendix B documents the endangered species protection determination for the City of Bartlesville. Section 2.10 of this SWMP details how the City of Bartlesville currently addresses 303(d) listed waterbody impairments within the MS4. Appendix C contains a map of the MS4 boundary for the City of Bartlesville. The map also shows the Waters of the State, 303(d) waterbodies, Aquatic Resources of Concern (ARC) waterbodies, and any completed TMDL waterbodies that fall within or partially within the MS4 boundary.

Appendix E contains a brief list of Acronyms and Definitions of many terms contained herein.

2.3 Authorized Allowable Non-Stormwater Discharges (OKR04 Part II.B)

The City of Bartlesville has determined the following non-storm water discharge sources as not being substantial contributors of pollutants to the MS4 or as being from activities required to protect public health and safety and therefore are allowable non-stormwater discharge sources (see assessment summary table below):

- a. Landscape irrigation and lawn watering, provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved manufacturers' instructions and/or labeling;
- b. Diverted stream flows;
- c. Residential building wash water that does not use detergents, solvents, and/or soaps;
- d. Uncontaminated pumped ground water or spring water;
- e. Uncontaminated ground water or spring water;
- f. Uncontaminated discharges from potable water sources, including water line flushing and fire hydrant flushing;
- g. Foundation drains;
- h. Air conditioning condensate;
- i. Water from crawl space pumps;
- j. Footing drains;
- k. Residential, non-commercial, and charity car washing;
- l. Uncontaminated and dechlorinated swimming pool discharges;
- m. Street wash water including wash water generated from the washing of other impervious surfaces such as sidewalks and parking lots, that does not use detergents, solvents, and/or soaps;
- n. Uncontaminated discharges from riparian areas and wetlands;
- o. Discharges in compliance with a separate Oklahoma Pollutant Discharge Elimination System (OPDES) or National Pollutant Discharge Elimination System (NPDES) permit;
- p. discharges of gray water from municipal splash pads (aka, spray parks or spray grounds) as defined in 27A O.S. § 2-6-107, unless otherwise permitted or regulated by DEQ, provided the discharges comply with all applicable municipal or county ordinances enacted pursuant to law (discharges from recirculating systems shall be de-chlorinated); and
- q. discharges or flows from emergency firefighting activities or training activities that are not taking place at a permanent facility, provided standard operating procedures (SOP) are in place for the Incident Commander, Fire Chief, or other on-scene firefighting official in charge to make an evaluation regarding potential releases of pollutants from the scene. These procedures shall be

followed in order to reduce any such pollutant releases to the maximum extent practicable, subject to all appropriate actions necessary to ensure public health and safety:

Hazardous Spill Standard Operating Procedures (SOP):

- i. The local incident commander of the fire-fighting scene will report to the Bartlesville stormwater coordinator any observed releases of chemicals into the MS4 and/or waterbodies.
- ii. Local remediation will be implemented and will consist of deploying absorbents, chemical neutralizers and/or booms and water skimmers to contain, neutralize, and/or remove the chemicals.
- iii. If the release is beyond the capability of local resources to safely and effectively remediate, then Bartlesville will contact a company from the state approved list for large-scale hazardous waste remediation.

Any individual non-stormwater discharge will be prohibited if suspected of or determined to be contributing significant amounts of pollutants to the MS4 by either City or DEQ Personnel.

The list of occasional, incidental, allowable non-stormwater discharges will be periodically reviewed by the City of Bartlesville and updated, as needed, in this SWMP. Any local controls or discharge conditions required by the City of Bartlesville on these incidental discharges will also be placed in this SWMP. The following table summarizes the assessments made by the City of Bartlesville for each of the allowable non-stormwater discharges.

ALLOWABLE DISCHARGE	SAFETY (1)	IMPACT (2)	NATURAL (3)	PERMIT (4)
a. Landscape irrigation & Lawn Watering		X		
b. Diverted stream flows	X		X	
c. Residential building wash water, no detergents		X		
d. Uncontaminated pumped ground water		X	X	
e. Uncontaminated ground water or spring water			X	
f. Discharge from potable water sources & hydrants	X			
g. Foundation drains	X			
h. Air conditioning condensate		X		
i. Water from crawl space pumps	X			
j. Footing drains	X			
k. Residential, Non-Commercial, Charity car washing		X		
l. Uncontaminated de-chlorinated swimming pool discharge		X		
m. Street, sidewalk, parking lot wash water	X			
n. Discharges from riparian areas and wetlands			X	
o. Discharges with a OPDES or NPDES permit				X
p. Grey water from municipal splash pads	X	X		
q. Discharges or flows from emergency firefighting	X			

- (1) Overriding public health and safety concerns make this allowable.
- (2) Flow or source is intermittent or small; not considered to be a significant source.
- (3) Flow from natural processes, mostly intermittent; not considered a significant source.
- (4) Authorized and allowed under another OPDES or NPDES permit.

If any release is beyond the capability of local resources to safely and effectively remediate, then the City of Bartlesville will contact one of the following service provider for large-scale hazardous waste remediation.

Sooner Emergency Services, Inc.
2131 S. 49 W. Avenue
Tulsa, OK 74107 (918) 583-2021 (24 hour number)
(alternate phone number) (918) 584-1804
www.sooneremergency.com

Environmental Remediation Specialist, Inc.
1105 N. Peoria Avenue
Tulsa, OK 74106 1-800-700-0777
(alternate phone number) (918) 832-8888
www.ersok.com

2.4 Historic Preservation (OKR04 Part II.D)

The Oklahoma DEQ's OPDES permitting activities are not Federal undertakings and, therefore, are not subject to review under Section 106 of the National Historic Preservation Act however, applicants and permittees must comply with the Oklahoma State Register of Historic Places Act ([53 O.S. § 361](#)), where applicable, and the Burial Disturbance Law [[21 Oklahoma Statutes \(O.S.\) §§ 1168.0-1168.6](#)], as well as with any applicable local laws concerning the identification and protection of historic properties.

OKR04 permittees who receive Federal funding or other Federal assistance in the completion of their OKR04-related projects may have to comply with Section 106 of the Historic Preservation Act. For information about the Section 106 review process in Oklahoma, Oklahoma properties listed on or eligible for the National Register of Historic Places, and related topics, the following shall be contacted:

State Historic Preservation Office: *(contact info listed in Part II.D of the OKR04 permit)*

Oklahoma Archeological Survey: *(contact info listed in Part II.D of the OKR04 permit)*

The City of Bartlesville will comply with OKR04 Part II.D (Historic Preservation) whenever permit related activities require such action. This will include communications with the State Historic Preservation Office and Oklahoma Archeological Survey to discuss what actions the City of Bartlesville may have to take to comply with rules governing preservation of historical sites and resources, including compliance with the Oklahoma State Register of Historic Places Act and the Burial Disturbance Law of Oklahoma. It is understood that normal OKR04 permit-compliance actions taken by the City of Bartlesville under OKR04 do not require Section 106 review under the National Historic Preservation Act.

2.5 Meeting Eligibility Criteria for Endangered Species (OKR04 Part II.E)

The City of Bartlesville has reviewed the Endangered Species Eligibility Criteria and Requirements of OKR04's Part II.E and has determined that no part of the City of Bartlesville's MS4 lies within any Aquatic Resources of Concern (ARC) Areas as shown on Exhibit 1 map in the OKR04 Permit therefore Criterion A has been specified in Item V of the MS4's NOI Form. Appendix B provides the method of this assessment and documentation used by the City of Bartlesville to select Criterion A.

2.6 Information on MS4 OKR04 NOI (OKR04 Part III.B.2)

Urbanized Area (UA) or Core Municipality: The City of Bartlesville MS4 is a core municipality with its boundary being defined by the City's Corporate City Limits boundary lines. Appendix C contains a map of the City of Bartlesville's MS4 area. The following latitude-longitude coordinates represent the approximate center point of the MS4's area:

Latitude: 36.749753

Longitude: -95.978103

Names of Major Receiving Waters: The City of Bartlesville's MS4 discharges to the following major receiving waters; the table notes the applicable designations of 303(d), ORW, TMDL and/or ARC with an "X" for each one applicable:

Waterbody Name	WBID (1)	303(d) (2)	ORW (3)	TMDL (4)	ARC (5)
Caney River (* first < 1% within MS4)	OK121400010010_10	*X		*X	
Caney River (last < 5% within MS4)	OK121400020010_10	X			
Caney River (100% in MS4)	OK121400020010_00				
Sand Creek (**last < 1% within MS4)	OK121400040010_00	**X		**X	
Turkey Creek (70% within MS4)	OK121400020030_00	X			

(1) WBID = Waterbody ID identifier, used by ODEQ and other agencies in Oklahoma.

(2) 303(d) = 2022 303(d) list of Impaired Waterbodies

(3) ORW = OWRB Outstanding Resource Water

(4) TMDL = TMDL Study completed and EPA/ODEQ approved

(5) ARC = Aquatic Resources of Concern (see ARC list and map in OKR04 Exhibit 1)

2.7 Relying on Another Government Entity (OKR04 Part III.D)

OKR04 Part III.D. requires that the permittee indicate if "another government entity, already regulated under the stormwater regulations," will be relied upon to "satisfy one or more of your permit obligations". Part V.A.5 requires written acceptance if "another governmental entity" will implement "one or more of your stormwater MCMs", but does not apply to implementing individual BMPs. Part VI.C.1.i (regarding Annual Report contents) requires a written agreement with "another government entity" if you are relying on them "to satisfy some of your permit obligations". The City of Bartlesville herein indicates in the tables below all entities with whom we are working collaboratively. Appendix D contains copies of all written agreements from the entities identified below to accomplish MCMs and BMPs on behalf of the City of Bartlesville.

OKR04 Part III.D: Another Permitted Government Entity Already Regulated:

Government Entity	Permit Obligation to be Completed by Permitted Entity
none	none

OKR04 Part V.A.5: Another Government Entity Responsible for MCMs:

Government Entity	MCM(s) to be Completed by Entity
none	none

OKR04 Part VI.C.1.i: Another Government Entity helps to Satisfy Some Permit Obligations:

Government Entity	Permit Obligations to be Completed by Entity
INCOG	Green Country Stormwater Association www.stormwaterok.net
INCOG	Education and Assistance on OKR04-required topics

2.8 Certification of Compliance (OKR04 Part II.E.2.a)

The City of Bartlesville hereby certifies compliance with all applicable OKR04 requirements by taking the actions as stated in the various parts of this signed SWMP.

2.9 Co-Permittees (OKR04 Part III.D)

The City of Bartlesville has elected not to share OKR04 compliance with another entity as a co-permittee.

2.10 Special Conditions & Compliance with Water Quality Standards (OKR04 Part IV.A.1)

303(d) and Completed TMDL Waterbodies: The City of Bartlesville has reviewed the latest Water Quality Report from ODEQ and has listed all waterbodies found to be within the MS4 boundary and having any 303(d) impairments, completed Total Maximum Daily Loads (TMDLs), Aquatic Resources of Concern (ARC), or Outstanding Resource Waters (ORW).

2.10.1 Addressing 303d Impaired Waterbodies (OKR04 Part IV.A.1.a)

In order to protect 303(d) impaired waters and not cause or contribute to a violation of water quality standards, the City of Bartlesville has implemented and maintains the following BMPs to reduce the 303(d) pollutants of concern. These special BMPs have been selected by the City of Bartlesville as being the most effective for reducing pollutants of concern in stormwater runoff. Appendix C contains a map of the MS4 with respect to 303(d) waterbodies.

At the time of preparing this SWMP, the 2022 303(d) List was in effect in Oklahoma. After reviewing this list, the City of Bartlesville identified the following impairments within the MS4 (see the map in Appendix C which shows the locations of all 303(d) waterbodies within the MS4):

2022 303(d) Listed Waterbodies Within the City of Bartlesville MS4:

Waterbody Name	Total Length (miles)	Portion within MS4%**	WBID	WB Ctgry	Impairment Cause	Impaired Use/ Targeted Sources
Caney River	25.54	Last < 5%	OK121400020010_10	5c	Fish Bioassessments	*WWAC / Septic Systems, Grazing, Residential
Caney River	46.50	First < 1%	OK121400010010_10	4a	Enterococcus	*PBCR / Septic Systems, Grazing, Pet Waste
Sand Creek	59.85	Last < 1%	OK121400040010_00	4a	Enterococcus	*PBCR / Septic Systems, Grazing, Pet Waste
Turkey Creek	5.34	70%	OK121400020030_00	5c	Macroinvertebrate Bio	*WWAC / source unknown (urban)

* Impaired Use Acronyms: WWAC = Warm Water Aquatic Community PBCR = Primary Body Contact Rec

**Approximate percentage of 303(d) waterbody area within Bartlesville MS4 boundary

The following table of BMPs are being taken by the City of Bartlesville to address the 303(d) impairments' targeted sources for the purpose of ensuring that stormwater discharges from the MS4 will not cause, have reasonable potential to cause, or contribute to an in-stream exceedance of the water quality standards.

ACRONYM KEY: SWM = Stormwater Manager SWI = Stormwater Inspector

Table of BMPs Targeting 303(d) Pollutants of Concern

BMP #	BMP Description	Schedule / Person Responsible
1	Distribute 100 educational brochures and flyers to area citizens	Distribute all year / SWM
4	Ordinance for illicit discharge (IDEE)	Review and enforce all year / SWM
11	Stormwater Educational Display	Review and Update Annually / SWM
13	School Age Education Program	Annually Distribute 100 Stormwater Coloring Books to Kids / SWM
20	MS4 Inspections	Annually and complaint driven / SWI
23	Public Media Article	Post 1 (min) public media ads relating to stormwater quality / SWM
26	Digital Newsletter Ads	1x/Year place stormwater awareness ad in City Newsletter / SWM
31	Dry Weather Field Screenings	Yearly Outfall Inspections (40%) / SWI
32	Maintain and Refill Pet Waste Stations	Monthly / Parks Dept Mgr

Target Audiences (OKR04 Part IV.A.1.b)

The City of Bartlesville has selected its public education and outreach BMPs and activities based upon the types of residential, industrial, commercial and institutional pollutant sources that are known or anticipated to exist within the MS4 and that may have the greatest potential to discharge pollutants in stormwater runoff. By focusing the types of education materials on high priority target audiences, the City of Bartlesville will have greater success in reducing pollution through its education outreach program.

Non-Stormwater Discharges (OKR04 Part IV.A.1.c)

The City of Bartlesville has examined potential non-stormwater discharges within its MS4 that could likely contribute significant pollutants to 303(d) impaired waters. The following potential discharge sources have been identified within the MS4:

Source Identifier	Location	303(d) Pollutants	Notes:
85- Municipal Point Source Discharge	North side of MS4	Bacteria	Permitted thru ODEQ; constant monitoring, testing, inspecting, and improving of system
133- Pet Waste	Residential Yards throughout MS4	Bacteria	Educational Program and Pet Waste Station BMPs in place

Inspect Illicit Discharges in Priority Areas (OKR04 Part IV.A.1.d)

The City of Bartlesville has located those areas most likely to have illicit discharges and it conducts inspections based on the priority areas within the watersheds of the 303(d) listed waterbodies. Details of the inspection and enforcement program are presented in Section 3.3 of this SWMP. The City of Bartlesville has also prepared a Standard Operating Procedure (SOP) flowchart document containing the procedures to be followed for these types of inspections. The SOP is included in Appendix G.

Operation & Maintenance Procedures for Structural & Non-Structural Controls (OKR04 IV.A.1.e)

The City of Bartlesville has developed the following procedures to address Operation and Maintenance (O&M) of all city-owned flood management structural controls required in OKR04 Part III.A.1.e. O&M of privately owned structures is discussed separately below, followed by a discussion of O&M of non-structural controls.

Summary of O&M Procedures:

O&M Procedure	Frequency	Methods	Limitations
Detention / Retention Ponds	Annual visual inspections; maintenance as needed. ⁽¹⁾	Visual inspection using city staff. Maintenance depending on factors. ⁽¹⁾	High priority given to structures that are new with a projected long life and greater usefulness.
Maintenance of drainage system and street cleaning	Annual visual inspections; maintenance as needed. ⁽¹⁾	Visual inspection using city staff. Maintenance depending on factors. ⁽¹⁾	Modifications to structure may need to be coordinated with other changes.
Ordinance review and inspection enforcement	Annual inspections; maintenance requirement as needed and regulation review.	Inspections using city staff. Maintenance depending on factors	Cooperation and participation.

⁽¹⁾ Decision on repair / replacement of features will depend upon factors such as cost, age, future effectiveness of structure, and availability of materials and resources.

O&M of City-Owned Structural Stormwater Controls:

The City of Bartlesville defines city-owned structural stormwater controls to mean any physical structure owned and maintained by the City of Bartlesville, including: wet and dry retention and detention basins and ponds; culverts and open channels that are owned by or within the City of Bartlesville's easements or rights-of-way and for which the City of Bartlesville has an obligation under city ordinance to maintain; and physical stormwater structures owned by the City of Bartlesville that are designed for managing stormwater flow and direction.

O&M of Privately-Owned Structural Stormwater Controls:

The City of Bartlesville defines privately-owned structural stormwater controls to mean any physical structure not owned and maintained by the City of Bartlesville, instead being owned and maintained by a private interest, such as a business, individual or Homeowners Association. Types of privately-owned stormwater structures will include: wet and dry retention and detention basins and ponds; culverts and open channels that are privately owned and for which the owner or association has an obligation under city ordinance to maintain; and physical stormwater structures privately owned that are designed for managing stormwater flow and direction.

O&M of City-Owned Non-Structural Stormwater Controls:

The City of Bartlesville defines city-owned non-structural stormwater controls to mean any stormwater-related program implemented by the City of Bartlesville, including: preservation of open space; expanding disconnections of impervious surfaces; expansion of vegetation and natural systems; grass swales and other types of natural, vegetated infiltration areas; and protection and expansion of riparian stream buffers. The City of Bartlesville will not impose requirements of non-structural controls on private property. Hence there will be no O&M actions needed regarding privately-owned non-structural controls. Instead, the City of Bartlesville will encourage and provide education about such programs as private development expands within the City of Bartlesville.

Assess Water Quality Impact to Impaired Waters from Existing and New Flood Management Projects (OKR04 Part IV.A.1.f)

4OKR04 Part IV.A.1.f requires any MS4 with discharges to 303(d) waters on the current list, to document how it will ensure that new flood management projects assess impacts on water quality and existing projects are reviewed to determine if incorporation of additional water quality protection devices should be required. The City of Bartlesville has prepared the following summary of assessment procedures (below). If additional detailed written procedures are produced as a stand-alone document in the future, they will be kept with the SWMP, and the SWMP text will be updated to provide a reference to the written procedures.

New Flood Management Projects: For each new flood management project discharging to a 303(d) listed waterbody, the MS4 reviews the plans to ensure the project has adequately assessed the pollutants of concern and, referring to the EPA's BMP menu, determines if any additional water quality protection devices or practices might be recommended for managing the identified pollutants.

The City of Bartlesville has prepared the following assessment procedures summary (below). If additional detailed written procedures are produced as a stand-alone document in the future, they will be kept with the SWMP, and the SWMP text will be updated to provide a reference to the written procedures. ODEQ will allow flexibility on the types of assessment methods in SWMPs, and for selecting the types of new flood management projects that will be assessed. ODEQ will also allow a phased

approach for beginning assessments of projects that have the greatest potential to cause water quality impacts.

The City of Bartlesville has implemented an assessment program for new flood management projects that must be completed prior to issuance of building permits. To make this pre-design process work smoothly, the City of Bartlesville provides education materials to applicants of building permits so that they can have time to prepare their plans and specifications to meet all the applicable requirements. A formal guideline document has been prepared for presentation to all building applicants as part of the education and outreach effort. This allows applicants time to incorporate requirements regarding new flood management project's water quality protections at the onset of project design.

The City of Bartlesville applies these assessments to MS4-owned projects and privately owned projects as well.

The following methods are used by the City of Bartlesville for making Part IV.A.1.f water quality impact assessment of new flood management projects:

- a. Compares the project location with the locations of all the 303(d) impairment watersheds within the MS4 and identifies the pollutants of concern (parameters) for the project's watershed.
- b. For each project, the City of Bartlesville examines the location of the project and determine the potential for runoff from the project's outlet to enter a 303(d) impaired waterbody. The assessment of potential impact includes consideration of the following:
 - 1) Small projects several stream miles upstream from the impaired waterbody on small tributary channels will not likely have any significant effect on 303(d) impairment, but large ones on large tributaries can have significant effect and likely does in the case of this MS4, whereas
 - 2) Large projects directly next to the waterbody may be more likely to contribute pollution.
- c. The City of Bartlesville assesses each new project's design and determines if there are any features that could be modified during construction to reduce pollutants in the runoff.

Selecting BMPs (OKR04 Part IV.A.1.g)

Per OKR04 Part IV.A.1.g, the City of Bartlesville MS4 has chosen BMPs from the EPA's BMP menu and other sources, for the purpose of managing identified pollutants in the MS4's discharges. BMPs are selected based on their ability to meet at least one, and preferably several, of the MCM requirements. The selected BMPs focus on target groups likely to have the most significant stormwater impact on the 303(d) listed waters in order to reduce pollutants and protect the City's stormwater quality.

BMPs to Address Bacteria 303(d) Waters (OKR04 Part IV.A.1.h)

Per OKR04 Part IV.A.1.h, the MS4 has put together the list below of identified BMPs addressing the following list of areas and has included these BMPs under each associated minimum control measure under Part V.(C);

- | | | |
|-------|-------------------------------|---|
| (i) | sanitary sewer systems | (see Bacteria Category 1 Section below) |
| (ii) | on-site sewage facilities | (see Bacteria Category 2 Section below) |
| (iii) | illicit discharge and dumping | (see Bacteria Category 3 Section below) |
| (iv) | animal sources | (see Bacteria Category 4 Section below) |
| (v) | residential education | (see Bacteria Category 5 Section below) |

Bacteria Category 1 - Sanitary Sewer Systems (OKR04 Part IV.A.1.h.i)

Sub-Category in OKR04	Selected BMP (BMP #)	Implementation Notes
(1) Identify improvements to sanitary sewer system	(34) Inspection of sewer lines	Min. 500 feet annually by Sewer Dept Field Crew
(1) Make improvements to sanitary sewer system	(35) Repair and replace breaks in sewer lines and appurtenances	Sewer Dept Field Crew will make repairs covered by annual budget as discovered
(2) Identify lift station inadequacies	(36) Inspect lift stations in bacteria 303d watersheds	Annually by Sewer Dept Field Crew
(2) Correct lift station inadequacies	(37) Perform lift station maintenance	Annually by Sewer Dept Field Crew
(3) Make improvements on reporting of violations	(2) Annual Field Staff IDDE training	Annually by City Stormwater Inspector
(4) Strengthen controls	(38) Review spill response SOP, equipment, and supplies - update as needed	Annually by Public Works Director
(4) Strengthen controls	(39) Conduct employee training on spill response SOP	Annually by Public Works Director

Bacteria Category 2 - On-Site Sewage Facilities (OSSFs) (OKR04 Part IV.A.1.h.ii)

Sub-Category in OKR04	Selected BMP (BMP #)	Implementation Notes
(1) Identify & address failing systems	(40) Inspect OSSFs for evidence of bypasses.	5 annually (min.) by Utilities Director
(2) Address inadequate maintenance of OSSFs	(1) Distribute 5 maintenance and inspection brochures and provide guidance to OSSF Owners.	Annually by Utilities Director

Bacteria Category 3 - Illicit Discharges and Dumping (OKR04 Part IV.A.1.h.iii)

Sub-Category in OKR04	Selected BMP (BMP #)	Implementation Notes
Additional effort to reduce waste sources of bacteria	(2) Train all field personnel on illicit discharge detection and elimination	Annually by City Stormwater Inspector

Bacteria Category 4 - Animal Sources (OKR04 Part IV.A.1.h.iv)

Sub-Category in OKR04	Selected BMP (BMP #)	Implementation Notes
Expand existing program to identify and target additional potential animal sources	(1,23) Distribute 45 educational brochures and 1 social media post regarding residential pet waste removal	Annually by Stormwater Manager
Expand existing program to identify and target additional potential animal sources	(1) Distribute 5 brochures on rangeland grazing and pasture management to area farm & ranch stores.	Annually by Stormwater Inspector
Expand existing program to identify and target additional potential animal sources	(32) Install and maintain "pet-waste" stations and signage in MS4-owned parks.	By Parks Dept Mgr

Bacteria Category 5 - Resident Education Programs (OKR04 Part IV.A.1.h.v)

Sub-Category in OKR04	Selected BMP (BMP #)	Implementation Notes
Public education regarding bacteria discharging from residential sites either directly or during runoff events	(26, 11, 1) Provide 2 Digital Ads, 1 public display, and distribute 40 educational brochures	Annually by Stormwater Manager
Public & area business education about preventing fats, oils and grease from clogging sanitary sewer lines and resulting in overflows	(1,12) Distribute water quality protection brochures to Public & 3 educational brochures to businesses about fats, oils, and grease best mgmt. practices	Annually by Stormwater Manager
Public education regarding decorative pond maintenance	(1) Distribute 5 educational brochures about pond maintenance to pond owners	Annually by Stormwater Manager
Public education regarding the importance of pet waste pick up	(23, 11, 1) Post 1 Social Media Ad and distribute 45 educational brochures	Annually by Stormwater Manager

2.10.1 Addressing 303d Impaired Waterbodies (OKR04 Part IV.A.1.a)

Where a discharge is already authorized under this permit and is later determined to cause, have the reasonable potential to cause, or contribute to the in-stream exceedance of an applicable water quality standard, DEQ will notify the MS4. Subsequently, the MS4 will take all necessary actions to ensure that future discharges do not cause, have the reasonable potential to cause, or contribute to in-stream exceedance of a water quality standard and must document these actions in the SWMP.

2.10.2 TMDL Allocations (OKR04 Part IV.B)

As of the 2022 ODEQ Water Quality Report TMDL documentation, the City of Bartlesville MS4 has no TMDL Waste Load Allocations (WLAs) assigned to it. The table below contains a list of two waterbodies, each with less than 1% of their total area falling within the MS4 boundary, that have completed TMDL's on them, but no requirements were placed on the City of Bartlesville:

TABLE: Waterbodies within the MS4 Having Completed TMDLs

Waterbody Name	Waterbody Id. (WBID)	MS4 Percent *	TMDL Pollutants of Concern	TMDL Codes
Caney River	OK121400010010_10	< 1%	Enterococcus, Turbidity	39216**
Sand Creek	OK121400040010_00	< 1%	Enterococcus, Escherichia coli	37064**

* Approximate percentage of the TMDL watershed containing Bartlesville's MS4 area. Both are located in the southwest corner of the MS4.

** The final TMDL document states that there are no permitted MS4s within the study area, so no TMDL WLAs were assigned to any stormwater permittee in the TMDL.

The TMDLs listed in the table above were both completed prior to late 2013. TMDLs in Oklahoma that were completed prior to late 2013 require that ODEQ notify the MS4 to begin initiating any compliance actions specified in the TMDL document. TMDL obligations will be reviewed annually.

2.10.3 Discharges to Outstanding Resource Waters (ORWs) (OKR04 Part IV.C)

For the present OKR04 2021-2026 permit cycle, no part of the City of Bartlesville MS4 area discharges to any waterbody designated as an Outstanding Resource Water (ORW) in Oklahoma's Water Quality Standards.

3.0 MINIMUM CONTROL MEASURES (MCMs) & BMPs

Each permitted small MS4 operator must identify, detail, and implement BMPs to comply with the OKR04 permit's required minimum control measures (MCMs): public education and outreach; public participation/involvement; illicit discharge detection and elimination; construction site runoff control; post-construction runoff control; and pollution prevention/good housekeeping. Each BMP includes a measurable goal which allows for the annual evaluation of the BMP's success toward reaching its goal of protecting water quality and reducing pollutants to the MEP. In general, measurable goals for existing BMPs monitor the effectiveness of the BMP, whereas measurable goals for new BMPs monitor their implementation progress. The Table in Appendix A includes a list of all the BMPs; each with a description, applicable MCM(s), measurable goal, implementation schedule or maintenance schedule, target audience, and person(s) responsible for implementation, along with any specific implementation information required for the BMP. The City of Bartlesville will annually review the BMPs and update or replace as necessary, following all applicable guidelines regarding SWMP changes. A general description of each MCM is provided in the following sections:

3.1 MCM 1: Public Education and Involvement:

MCM 1 is Public Education Program and Public Involvement Program. The permit requires that the program include distributing of information and educational materials to the community, as well as to the MS4 staff, and it requires the MS4 to conduct public involvement activities, both for the purpose of promoting behavior changes that will reduce pollutants in stormwater runoff and to eliminate illicit discharges. Public involvement activities have been tailored using a mix of locally appropriate strategies, to target specific audiences and stormwater concerns in the community. Since some of the MS4 area discharges to waters identified on the latest 303(d) list of impaired waters, the program has been directed toward targeted groups likely to have the most significant stormwater impact on the impaired waters. MCM1 also requires MS4 to provide a way for the public to submit comments regarding the SWMP to the City for review by the person(s) responsible for the SWMP. This information is provided on the City of Bartlesville's Stormwater Management Web Page.

City of Bartlesville (Cat 2) Minimum Public Education and Involvement Activities Per Year		
MCM #	Activity Description	Activities Per Year
1	Public Education	4 activities per year
	Public Involvement	2 activities per year
3	Outreach or educational activity for illicit discharge	once per year
	Staff Training - IDDE	once per year
4	Outreach or educational activity for construction runoff	once per year
	Staff Training - Site Inspection	once per year
5	Public education for post-construction runoff	once per year
6	Staff Training - Good Housekeeping	once per year

3.1.1 MCM 1 - Part 1: Public Education

Public education activities have been chosen from the following list:

Public Education Activities
-brochures/pamphlets
-displays/posters/kiosks
-local public service announcements
-newspaper articles/press releases
-publication of MS4 annual report, SWMP, or ordinances
-signage
-storm drain markings
-utility bill insert or other mailing
-videos
-website

In coordination with MCM 3

- implement an education program to involve public employees, businesses, and the general public make them aware of hazards associated with illegal discharges and improper disposal of waste;
- promote, publicize and facilitate the reporting of illicit discharges; and
- conduct staff training to identify and report illicit discharges.

In coordination with MCM 4

- implement an education program to involve local developers,
- implement and enforce procedures for receipt and consideration of information submitted by the public, and
- conduct staff training to address requirements for inspection and enforcement of erosion and sediment control measures once construction begins.

In coordination with MCM 5

- implement an education program to involve developers and the public and make them aware of project designs that minimize water quality impacts, including LID strategies.

In coordination with MCM 6,

conduct staff training to prevent and reduce stormwater pollution from MS4 activities.

3.1.1.1 Best Management Practices for Public Education

The City of Bartlesville uses a variety of public education BMPs to inform individuals and groups within the community about steps they can take to reduce stormwater pollution and become more involved in the stormwater program. Appendix A lists all BMPs that will be used for this MCM. Appendix A also lists the Measurable Goals, Target Audience, Person Responsible for Implementation, and schedule for each BMP.

3.1.1.2 Target Audience

The following target audiences were selected because the City of Bartlesville considers them most likely to be significant sources of stormwater pollutants:

The following target audiences were selected because the City of Bartlesville considers them to be most likely to have significant stormwater impacts: For residential chemical use and disposal, the City of Bartlesville will target education programs to individual homeowners, renters and multi-family residents. For commercial chemical use and disposal, the City of Bartlesville will target education programs to commercial retailers and those businesses that store and use chemicals, including construction sites. Elementary school educational materials and coloring books will be available throughout the year at City Hall, free to all citizens. Blue Thumb volunteer program will be utilized to acquire local stream data and options for pollutant disposal will be offered and promoted (e.g. recycling and collection events).

3.1.1.3 Target Pollutant Sources

The City of Bartlesville's Public Education program will primarily address pollutants from residential neighborhoods by educating individual homeowners on the proper disposal of such household chemicals as:

- pet waste
- pesticides
- fertilizers
- detergents
- solvents
- motor oil
- antifreeze
- other motor and engine fluids
- oil-based paints
- rubbish ("floatable" materials)
- yard waste (grass clippings, leaves)

By encouraging the public to use local and regional recycling centers and household pollutant collection events, additional household chemicals such as heavy metals, solvents, acids and poisons can be safely disposed of. Proper storage, use and disposal of chemicals by local businesses will also be addressed in the education program.

3.1.1.4 Outreach Strategy

The City of Bartlesville participates in the regional stormwater education activities sponsored by INCOG's Green Country Stormwater Alliance (GCSA). Some education materials will be provided by INCOG from existing Federal, State or other sources while other materials will be developed collaboratively from all GCSA members. The City of Bartlesville will also develop some public education BMPs locally.

The City of Bartlesville's public education program will target several different areas:

- a. Homeowners will be educated on how to properly use and disposal of fertilizers and other household chemicals as well as proper septic system maintenance.
- b. INCOG's GCSA regional stormwater web site (www.stormwaterok.net) will provide information to the general public about local and regional water quality and program issues as well as

numerous web links to water quality resources.

- c. The public education program will also provide information on how to get involved in stream cleanups, restoration activities and other local conservation efforts that may periodically be conducted in the City of Bartlesville.
- d. The City of Bartlesville will promote citizen participation in area-wide stream and city cleanup events, use of recycling centers in the vicinity, and participation in pollutant collection events.
- e. The stormwater web site will provide to the general public timely information about local and regional water quality and program issues as well as numerous web links to water quality resources.
- f. Secondary education grades will learn about water quality and urban sources of pollution through the Blue Thumb's classroom programs for school children.
- g. The Blue Thumb volunteer stream monitoring program will emphasize student and adult education through practical hands-on experience with water quality sampling as well as provide formal training in water quality, pollution effects and ecosystem health.
- h. The City of Bartlesville's education program will develop written materials that target commercial and industrial enterprises that have business activities that may negatively impact the stormwater quality of the MS4.

The City of Bartlesville's Public Education program has a goal of providing stormwater education material to homeowners in Bartlesville during the first five-year permit cycle.

3.1.1.5 Management Responsibility

The City of Bartlesville has overall project management responsibility. The Director of Engineering will coordinate all local activities and the implementation of all program elements for the Public Education and Outreach MCM. The City of Bartlesville will implement activities addressing illicit discharges in the program by developing education materials, conducting training, coordinating educational activities and maintaining the stormwater web site.

3.1.1.6 Evaluating Program Effectiveness

OKR04 Part VI.C.1.b requires each Ph 2 Small MS4 to annually evaluate program effectiveness by assessing progress made toward achieving each BMP's measurable goal and by reviewing data collected to determine overall effectiveness. The City of Bartlesville will employ the following strategy to assess program effectiveness in the Annual Report:

Measurable Goals have been established for each Public Education BMP. These are summarized in Appendix A and include implementation schedules and milestones for each BMP. The Measurable Goals for the BMPs were selected by the City of Bartlesville to accommodate local resources with the intent of establishing BMPs efficiently and cost effectively. Sufficient time was built into the implementation schedules to allow for corrective actions to be taken to have an improved program by the end of the permit cycle.

BMP Effectiveness will be demonstrated by keeping records of feedback from individuals and stakeholders in the general public and from agencies and organizations involved with the construction site control program. Feedback from the public, agencies and organizations (email, phone call, fax, letter or personal visit) including outputs and outcomes of education events will be recorded in writing. BMP effectiveness will be demonstrated by compiling and evaluating data from city administrative staff. If pollution sources are abated as a result of the inspection and enforcement program, then the abatement action will be logged as a BMP success. Changes in types of issues reported by the general public and businesses over several years of BMP implementation should demonstrate effectiveness of this MCM.

3.1.2. MCM 1 - Part 2: Public Involvement:

Public education and involvement activities have been chosen from the following list:

Public Involvement Activities
-waterway/watershed clean-up or trash removal event
-contests
-household hazardous waste collection event
-involvement in development of MS4 SWMP
-meetings (e.g. public hearing, council meeting, citizen committee meeting, etc.)
-school programs
-special events/fairs
-targeted group training
-volunteer event
-water monitoring event
-workshop

Some of the activities under the Public Education MCM also apply to the Public Participation and Involvement MCM. These include the Blue Thumb stream monitoring, use of recycling centers, participation in household pollutant collection events, storm drain marking, and community cleanup events. Appendix A lists each Public Participation BMP including implementation schedules and Measurable Goals for each BMP.

The Public Participation MCM is different from the Public Education MCM in that the citizens of the City of Bartlesville will actively participate in a program component such as stream cleanups or storm drain marking. By participating, citizens not only learn about the urban stormwater quality issues but contribute towards improving water quality in their community.

3.1.2.1 Best Management Practices for Public Participation

The City of Bartlesville will use several public participation BMPs to involve individuals and groups in activities and programs to reduce stormwater pollution and become involved in the stormwater program. Appendix A summarizes all BMPs that will be used for this MCM along with the Measurable Goals and schedule of implementation for each BMP.

3.1.2.2 Public Involvement in Program Development

In cooperation with ODEQ and INCOG, the City of Bartlesville has taken a number of steps to inform and include the public in understanding and providing input in the development of the Phase II program. These include:

- a. The City of Bartlesville presents staff and budget information about the Phase II program in City Council public meetings.
- b. City staff responds to questions from the public, and the city distributes information to the community upon request.
- c. As part of its existing Public Education and Outreach MCM, the City of Bartlesville provides information about the MS4 program to citizens, and encouraged them to contact the stormwater coordinator for additional information.
- d. The City welcomes input from its citizens regarding the stormwater program.
- e. ODEQ hosted a public meeting and held a formal 30-day public comment period in April 2015 on the draft OKR04 General Permit; ODEQ responded to all comments in writing.
- f. ODEQ has placed all relevant information about the Phase II program, including cities affected and activities required under Phase II, on their public website (www.deq.state.ok.us/) with links to various types of technical information for the public.
- g. INCOG's (www.incog.org/) Green Country Stormwater Alliance (GCSA) website (www.stormwaterok.net) contains web pages for the public about the Phase II stormwater permit program, including invitations to contact local stormwater managers of each GCSA member to learn more about their own local program.
- h. The ODEQ will place a notice of the availability of the Notice of Intent (NOI) on the ODEQ web site, and provide a 30-day public comment period for any organization or individual to make formal comments or inquiries on the draft NOI and draft SWMP of each OKR04 applicant. The City of Bartlesville will make available to any group or individual, upon request, a copy of the NOI and SWMP, and provide any other information upon request.

3.1.2.3 Public Involvement Program Implementation

Throughout each five-year permit cycle, the City of Bartlesville will use several methods to educate the public about the Phase II program and opportunities for participation. These include:

- a. The City of Bartlesville will continue to include information on its website detailing how individuals and organizations can become more fully informed and participate in water quality improvement efforts under the Phase II program.
- b. INCOG's (www.incog.org) regional GCSA stormwater web site (www.stormwaterok.net) will continue to provide updated information about local and regional activities in which citizens can participate.
- c. City Council agenda items dealing with aspects of the program (e.g. budget approvals, approval of program activities) will be open to the public and receive public comment.

3.1.2.4 Target Audience

The public participation program primarily targets homeowners, adult residents, public school classes and organizations, non-profit organizations (e.g. Boy Scouts), and civic organizations. For school-age children,

the participation program will focus on storm drain marking volunteer program. Regional waste collection events and community cleanup events target individual residents in the MS4 area by encouraging participation. All ethnic and socio-economic groups are encouraged to participate. The Phase II program for the City of Bartlesville has been implemented to benefit all residents and all local enterprises.

3.1.2.5 Public Involvement Activities

Appendix A lists all of the Public Participation BMPs that will be used by the City of Bartlesville, including the assigned Measurable Goals and schedule for each BMP. The City of Bartlesville participates with INCOG's GCSA regional public participation and education activities. Some education materials are provided by INCOG from Federal, State and other sources while other materials are developed collaboratively and by the MS4.

The City of Bartlesville's Public Participation program is conducted to promote and educate its citizens about opportunities to play an active role in water quality improvement efforts. Several of the Public Participation BMPs in Appendix A are joint ventures between the City of Bartlesville and other agencies or organizations.

The City of Bartlesville's public participation program relies upon the City's effort to promote and educate its citizens about opportunities to play an active role in water quality improvement efforts. The City of Bartlesville uses the following types of activities for Public Participation:

- a. Distribute brochures to encourage proper use and disposal of household chemicals;
- b. Comply with all State and local public notice requirements during program implementation;
- c. Provide information on the stormwater web site about local events;
- d. Sponsor an annual cleanup event in the city limits;
- e. Encourage citizens to participate in Blue Thumb school education programs;
- f. Encourage citizens to participate in Blue Thumb stream monitoring;
- g. Sponsor the Blue Thumb storm drain marking program;
- h. Establish a process to receive and review comments on the SWMP from the public and document responses to issues raised;
- i. Promote area-wide household pollutant collection events; and
- j. Encourage citizens to use recycling stations in the vicinity.
- k. Public Input - Set up phone number and email options for public to submit drainage complaints and concerns:

OKR04 Part V.C.4.a(5) requires the MS4 to, "*implement and enforce procedures for receipt of, and consideration of, information submitted by the public*". The City of Bartlesville has established the following administrative process for taking input from the public:

- o Designating one or more MS4 staff as the primary contact person for stormwater communications from the general public;
- o Educating administrative staff on how to document public input from email, letters, faxes, phone calls and personal contacts;
- o Processing of input from the public will be allowed from all sources, including emails, letters, faxes, phone calls and personal contacts;
- o The MS4 documents the response actions taken to resolve each request for assistance; and
- o The public input program will be part of the annual program assessment for the Annual Report and will include evaluation of the success of addressing reported issues.

3.1.2.6 Management Responsibility

The City of Bartlesville has overall project management responsibility. The Director of Engineering will coordinate all local activities and implementation of all program elements. INCOG's GCSA program will be managed by the Environmental and Energy Division at INCOG. The City of Bartlesville will provide sufficient funds to implement public participation programs outlined in the agreement. The program will address development of brochures and training materials, as well as the coordination of education activities.

3.1.2.7 Evaluating Program Effectiveness

OKR04 Part VI.C.1.b requires each Ph II Small MS4 to annually evaluate Public Education and Involvement program's effectiveness by assessing progress made toward achieving each applicable BMP's measurable goal and by reviewing related data collected to determine overall program effectiveness. The City of Bartlesville will employ the following strategy to assess the program's effectiveness in the Annual Report:

Measurable Goals have been established for each Public Participation BMP. These are summarized in **Appendix A** and include implementation schedules and milestones for each BMP. The Measurable Goals and target dates for the BMPs were selected by the City of Bartlesville to accommodate local resources with the intent of establishing BMPs efficiently and cost effectively. Sufficient time was built into the implementation schedules to allow for corrective actions to be taken to have an improved program by the end of the permit cycle.

BMP Effectiveness will be demonstrated by keeping records of feedback from individuals and stakeholders in the general public and from agencies and organizations involved with the construction site control program. Feedback from the public, agencies and organizations (email, phone call, fax, letter or personal visit) including outputs and outcomes of education events will be recorded in writing. BMP effectiveness will be demonstrated by compiling and evaluating data from city administrative staff. If pollution sources are abated as a result of the inspection and enforcement program, then the abatement action will be logged as a BMP success. Data from the stormwater inspections will be used to verify successful implementation of on-site construction BMPs. The City of Bartlesville will record pollution abatement episodes as described in the SWMP, including date, location, pollutant, observations, measurements, interviews, photos, field form data, abatement and enforcement steps taken, and results of each investigation. The increased number of pollution discharge quantities removed from the environment over a period of several years of BMP implementation and inspections conducted should demonstrate effectiveness of this MCM.

3.2 MCM 2: Industrial Stormwater Runoff Control:

The City of Bartlesville is a Category 2 MS4 and therefore is not currently required to implement and enforce an industrial program at this time. At this time, only Category 3 MS4s are required to implement and enforce an industrial stormwater runoff program from independently-owned industrial activities discharging into the MS4. Individual OKR05 industrial permits are required for industrial sites and are obtained and monitored directly through ODEQ. No changes are expected to this status in the next year.

3.3 MCM 3: Illicit Discharge Detection and Elimination:

The City of Bartlesville Illicit Discharge Detection and Elimination (IDDE) Program is being implemented and enforced for the purpose of detecting and eliminating illicit discharges, including illegal dumping and on-site sewage disposal systems, into the small MS4. The program includes the creation of an ordinance

that prohibits non-stormwater discharges into the MS4, except as outlined as allowable non-stormwater discharges in Section 3.3.8 of this Plan, and gives the City the authority to perform inspections and enforce requirements through defined mechanisms, for the continued reduction of pollutants into the MS4 system. The program also includes annual dry weather field screenings (DWFS) to aid in the locating of illicit non-stormwater flows and defines the subsequent process of investigating, tracing, and addressing any illicit discharges found. New elements of the program will be developed and implemented as necessary. The City's IDDE Program includes the following procedures:

1. Identify priority areas including areas with a higher likelihood of illicit connections or discharges (e.g., areas with older sanitary sewer lines or with a history of sewer overflows or cross-connections; areas with older infrastructure that are more likely to have illicit connections; areas of industrial, commercial, or mixed use; areas with a history of past illicit discharges; areas with a history of illegal dumping or citizen complaints; and any areas that discharge to ARCs or ORWs. The priority area list shall be reviewed and updated annually to reflect changing priorities.
2. Source tracing or investigating any discovered illicit discharge (see flow chart in Appendix H). The investigation shall take place within 72 hours of the receipt of any complaint, report, or monitoring information received, that indicates a potential illicit discharge.
3. Remove or eliminate the source of the illicit discharge.
4. Identify problems using visual indicators and simple field test kit. (Laboratory methods are reserved for situations where a problem has been identified and enforcement on a suspected illicit discharger is needed.)
5. DWFS shall be conducted on a total of 40% of all identified outfalls each year and shall include all high priority areas.
6. Implement an ordinance or other regulatory mechanism, and enforcing it to the maximum extent allowable under state or local law, for the purpose of effectively prohibiting illicit discharges into the MS4. (See Appendix F for copy of implemented Ordinance #3184)
7. Maintain and annually update the storm sewer system map showing locations of all outfalls and the names and locations of all waters of the state that receive discharges from those outfalls.
8. Maintain and annually update a list of occasional incidental non-stormwater discharges or flows as allowed in OKR04 Permit's Part II(B)(2), that will not be addressed as illicit discharges (see Section 3.3.8 of this Plan for current list).

3.4 MCM 4: Construction Site Stormwater Runoff Control:

The City of Bartlesville will implement a comprehensive education, inspection, and enforcement program to address the pollution of stormwater runoff from active construction sites which shall include addressing each of the following OKR04 Permit requirements:

- a) Implement and enforce an ordinance, or other regulatory mechanism, to the extent allowable under state or local law, to require erosion and sediment controls as well as sanctions to ensure compliance. This must be reviewed annually and revised as necessary to ensure continued compliance.
- b) Implement and enforce procedures for site plan review which incorporate consideration of potential water quality impacts including erosion and sediment controls, controls of other wastes, and any other impacts that must be examined according to the requirements of the local ordinance or other regulatory mechanism.
- c) Implement and enforce procedures for site inspection and enforcement of control measures including enforcement escalation procedures for recalcitrant or repeat offenders. Document

inspection findings and take all necessary follow-up actions (i.e., re-inspection, enforcement) to ensure site compliance.

- d) Public education and involvement requirements for MCM 4 activities include:
 - i) implementing an education program involving local developers,
 - ii) implementing and enforcing procedures for receipt and consideration of information submitted by the public, and
 - iii) conducting staff training to address requirements for inspection and enforcement of erosion and sediment control measures once construction begins.

3.4.1 Best Management Practices for Construction Site Runoff Control

The City of Bartlesville will use Best Management Practices BMPs in Appendix A and Appendix G to implement an effective erosion and pollutant control program for active construction sites. The erosion and sediment control ordinance, site plan reviews, construction site inspections, enforcement, and educational components are each addressed in the MS4's selected BMPs.

3.4.2 Ordinance

The City will adopt an ordinance prohibiting the discharge of pollutants and sediment from construction sites, and requiring the deployment of adequate sediment and erosion control measures. The ordinance must be reviewed and revised as needed to meet current permit requirements.

3.4.3 Plan to Ensure Compliance by Site Operators

The City will ensure compliance by Site Operators through the use of site plan reviews, site inspections, enforcement control measures, and education programs.

3.4.4 Site Plan Reviews

OKR04 Part V.C.4.a.ii requires the MS4 to *implement and enforce procedures for site plan review which incorporate consideration of potential water quality impacts...*. The City of Bartlesville will require all new development and redevelopment construction to consider potential impacts on water quality from construction activities. Requirements include sediment and erosion control and control of other on-site wastes that can impact water quality.

To meet this OKR04 permit requirement, the City will establish and utilize administrative procedures for site plan review to ensure consistent enforcement and adequate compliance with the following two items:

- Erosion and sediment control requirements
- Floodplain requirements

3.4.5 Construction Site Inspections

OKR04 Part V.C.4.a.iii requires the MS4 to *"Implement and enforce procedures for site inspection"*. At a minimum, site inspections shall be conducted once per month at all OKR10 permitted construction sites within the MS4 area. Smaller construction sites, not requiring an OKR10 permit, shall be inspected at a minimum of once per quarter.

The City of Bartlesville will develop a program for inspecting construction activities that includes the following:

- a. For each OKR10 permitted site, the Stormwater Inspector will schedule and perform routine inspections and follow-up inspections using standard inspection forms created by the City Stormwater Manager;

- b. For any complaint received relating to construction site stormwater, the Stormwater Inspector will immediately or as soon as practicable, go and conduct an inspection;
- c. The stormwater inspection form will document the adequacy of the erosion and sediment control measures being used on each OKR10 permitted project and will note any remedial actions needed;
- d. Inspection data from the forms will be entered into a computer database or otherwise stored in City paper files;
- e. Enforcement will rely upon initially encouraging remediation by the construction owner / operator verbally, followed by a written warning to remediate within a reasonable time, followed by issuance of a fine or a stop work order under authority of the local ordinance;
- f. Any immediate and significant threat to health, safety or the environment will be enforced immediately using best professional judgment of the city inspector and/or Bartlesville administrative / public works staff, including police and fire personnel, as the situation merits, including reporting the violation to ODEQ for OKR10 enforcement.

3.4.6 Management Responsibility

The City of Bartlesville has overall project management responsibility. The Director of Engineering will coordinate all local activities and the implementation of all program elements. The City of Bartlesville will develop education materials, conduct training of inspectors, develop forms, and other data management items.

INCOG's GCSA program will be managed by the Environmental and Energy Division at INCOG. INCOG will submit an annual written scope of services to the City of Bartlesville, as well as maintain the GCSA stormwater website on behalf of the City of Bartlesville and other GCSA members.

3.4.7 Evaluating Program Effectiveness

OKR04 Part VI.C.1.b requires each Ph 2 Small MS4 to annually evaluate the Construction Site Stormwater Runoff Control Program's effectiveness by assessing progress made toward achieving each applicable BMP's measurable goal and by reviewing related data collected to determine overall effectiveness. The City of Bartlesville will employ the following strategy to assess program effectiveness in the Annual Reports:

Measurable Goals have been established for each construction site control BMP. These are listed in Appendix A. Each BMP includes applicable MCMs, measurable goal, target audience, person responsible, and schedule. The Measurable Goals for the BMPs were selected by the City of Bartlesville to accommodate local resources with the intent of establishing BMPs efficiently and cost effectively. Sufficient time was built into the implementation schedules to allow for corrective actions to be taken to have an improved program.

BMP Effectiveness will be demonstrated by keeping records of feedback from individuals and stakeholders in the general public and from agencies and organizations involved with the construction site control program. Any feedback received from the public, agencies, or organizations (emails, phone calls, faxes, letters or personal visits). BMP effectiveness will be demonstrated by compiling and evaluating data from city administrative staff. If pollution sources are abated as a result of the inspection and enforcement program, then the abatement action will be logged as a BMP success. Changes in types of issues reported by the general public and businesses over several years of BMP implementation should demonstrate effectiveness of this MCM.

3.5 MCM 5: Post-Construction Management in New Development and Redevelopment:

The City of Bartlesville will implement and enforce a Post-Construction Management Program for the purpose of maintaining pre-development runoff conditions and ensuring controls are in place to prevent or minimize water quality impact from new developments and redevelopment projects disturbing greater than or equal to one (1) acre, including projects less than one (1) acre if part of a larger common plan of development or sale, and which discharge into the City's MS4 area. The following items are included in the City's program:

- i) Implement and enforce an ordinance, or other regulatory mechanism, to the extent allowable under state or local law, to require the use of BMPs, with highest preference given to LID techniques and practices, to address post-construction runoff from new development and redevelopment projects.
- ii) Implement and enforce procedures, such as ordinances or other regulatory mechanisms, to ensure adequate long-term operation and maintenance of BMPs that are installed during and left in place after the completion of a construction project. Maintenance may be conducted by the MS4 or by the owner/operator of the BMP(s). For this part, the owner/operator is the party with control over operational and maintenance activities of the BMP(s), including home owner associations (HOAs), commercial and industrial entities. Owners of individual residential properties, which serve as the owner's primary residence, may be excluded.
- iii) Review local ordinances, regulations, and engineering plans or specifications to identify any legal/regulatory barriers to LID as well as opportunities to promote LID. Develop a schedule to remove those barriers and implement identified opportunities. If a barrier is not removed or an opportunity is not implemented, provide a justification. You may use the EPA Water Quality Scorecard as a guide. You can download the document from the following EPA website: <https://19january2017snapshot.epa.gov/sites/production/files/201404/documents/water-quality-scorecard.pdf>.
- iv) Assess current street design, parking lot guidelines, and other requirements that affect the creation of impervious cover and implement additional guidelines or design standards to support LID design options. Provide a justification if additional guidelines are not implemented.
- v) Implement an education program to involve developers and the public and make them aware of project design options that minimize water quality impacts, including low impact development (LID) strategies.

3.5.1 MCM 5 Program Implementation and Objectives

The post-construction program will be developed to address local conditions within the City. Factors that will be considered in developing the local post-construction program are:

- Proximity of the site to impaired waterbodies on the State's 303(d) list;
- Erosivity of the site (e.g. slope, soil type, vegetative cover, etc.);
- Size of construction activities and site disturbance;
- Receiving water characteristics (flows, depths, riparian cover, etc.)

3.5.1.1 Non-Structural BMP

The City will encourage the use of the following non-structural City policies and BMP at new development and redevelopment sites:

- Utilization of the most recent Comprehensive Plan for the City to direct growth to identified areas and protect sensitive water resources such as local wetlands and riparian zones;
- Encourage new development and re-development projects to maintain open spaces, provide buffers along sensitive waterbodies and minimize impervious surfaces and disturbance of soils and vegetation wherever practical; and
- Encourage developers to implement source control measures as good housekeeping practices.

3.5.1.2 Structural BMP

The City will encourage the use of the following structural BMP at new development and redevelopment sites:

- Encourage contractors to use stormwater storage structures such as wet ponds and detention basins; and
- Encourage contractors to use LID and filtration practices such as grassy swales and filter strips and infiltration practices such as infiltration basins and infiltration trenches.

3.5.2 Ordinance

The City will establish and annually review an ordinance or other regulatory mechanisms requiring the implementation of post-construction runoff policies and BMP's described above. The ordinance will give highest preference to LID techniques and practices by offering incentives to developers who use low impact development to address post-construction runoff from new development and redevelopment projects.

3.5.3 Long-Term Operation & Maintenance

The City will ensure long-term operation and maintenance (O&M) of Post-Construction BMPs by requiring new developers to either transfer ownership of new structural BMP (storm sewer infrastructure, detention basins, etc.) to the City or provide for third-party ownership and maintenance responsibilities (e.g. transfer ownership to a homeowner's association). Dedication certification must be included on a Final Plat or other legal document, establishing ownership and maintenance responsibilities for all new detention/retention areas. Sample language can be found in the City's Subdivision Regulations - Appendix B.

Existing Post-Construction BMP annual inspections and any required maintenance shall be conducted by the City Stormwater Inspector and City Field Crews unless responsibility is specifically stated otherwise on a previously filed document.

Post-Construction Inspection Program

Annual Post-Construction Inspections will be conducted by the City Stormwater Inspector or a certified 3rd party inspector hired by the "Owner/Operator". Responsibility will be determined by property ownership and other filed legal documents. A list and a map of post-construction BMP locations and related information will be assembled for annual inspections and will be updated as required.

In regard to Long-Term Operation & Maintenance, "Owner/Operator" shall be defined as the party with control over operational and maintenance activities of the BMP(s) including home owners' associations (HOAs), commercial entities, and industrial entities. Owners of individual residential properties, which serve as the owner's primary residence, shall be excluded.

3.5.4 Low Impact Development (LID) Program

The City of Bartlesville will comply with this requirement by taking the following actions:

- a. Annually review ordinances, regulations, standards, and specifications to identify new opportunities to promote LID and any potential legal barriers relating to LID.
- b. Implement an incentive for developers to encourage the use of LID.
- c. Implement and enforce design standards that will promote the use of appropriate street widths based on traffic flow, match parking space numbers to levels of demand, and offer flexibility regarding alternative parking options to help meet requirements (e.g., shared parking, off-site parking), all in order to minimize excessive impervious areas.
- d. Implement an education program to involve developers and the public and make them aware of project design options that minimize water quality impacts, including low impact development (LID) strategies.

Strategies the City may employ are as follows:

- i) Structural Controls
 - (1) Retention/irrigation ponds
 - (2) Extended detention (wet/dry basins)
 - (3) Vegetative filter strips
 - (4) Vegetated swales
 - (5) Constructed wetlands
 - (6) Sedimentation ponds/traps
 - (7) Infiltration ponds
 - (8) Catch basins
 - (9) Grated inlets
 - (10) Outfall velocity dissipation controls
- ii) Non-Structural Controls may include the following:
 - (1) Street sweeping
 - (2) Litter collection
 - (3) “No Mow” areas
 - (4) Storm drain markers

3.5.5 Education Program for Developers and the Public

The City will implement an education program to involve developers and the public and make them aware of project design options that minimize water quality impacts, including low impact development (LID) strategies by the following measures:

- Distribute LID Brochures to Developers at Project Planning Meetings
- Post LID Brochures for Developers on the City’s Stormwater Website

Also, The GCSA website (www.stormwaterok.net) contains a number of educational LID materials for developers and the public that are periodically updated by INCOG.

3.5.6 Management Responsibility

The City of Bartlesville has overall project management responsibility. The Director of Engineering will coordinate all local activities and implementation of all program elements. The City of Bartlesville will develop and distribute education materials, conduct training of inspectors, develop forms, and other data management items.

INCOG's GCSA program will be managed by the Environmental and Energy Division at INCOG. INCOG will submit an annual written scope of services to the City of Bartlesville, as well as maintain the GCSA stormwater web site on behalf of the City of Bartlesville and other GCSA members.

3.5.7 Evaluating Program Effectiveness

OKR04 Part VI.C.1.b requires each Ph 2 Small MS4 to annually evaluate the Post-Construction Management Program's effectiveness by assessing progress made toward achieving each applicable BMP's measurable goal and by reviewing related data collected to determine overall program effectiveness. The City of Bartlesville will employ the following strategy to assess program effectiveness in the Annual Reports:

Measurable Goals have been established for each post-construction BMP. These are listed in Appendix A. Each BMP includes applicable MCMs, measurable goal, target audience, person responsible, and schedule. BMPs were selected by the City of Bartlesville to accommodate local resources with the intent of establishing BMPs efficiently and cost-effectively.

BMP Effectiveness will be demonstrated by keeping records of inspections, abatements, and feedback received from individuals and public stakeholders as well as from agencies and organizations involved with the construction site stormwater control program. Any feedback received will be documented. BMP effectiveness will be demonstrated by compiling and evaluating data gathered by city administrative staff. If pollution sources are abated as a result of the inspection and enforcement program, then the abatement action will be logged as a BMP success. Changes in types of issues reported by the public and area businesses over several years of BMP implementation should demonstrate effectiveness of this MCM.

MCM 6: Pollution Prevention / Good Housekeeping:

The OKR04 Permit requires the MS4 to implement and enforce an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from MS4 operations such as streets, roads, highways, parking lots, maintenance and storage yards, fueling areas, waste transfer stations, fleet or maintenance shops, salt/sand storage locations, and snow disposal areas.

In summary, this MCM requires the following program goals for all MS4 levels:

- i. Maintain and annually update an inventory of all your MS4 operations that are impacted by this program.
- ii. Maintain and annually update a list of industrial facilities you own or operate that are subject to the OKR05, or individual OPDES or NPDES permits for discharges of stormwater associated with industrial activity, that ultimately discharge to your small MS4. Include the authorization number or a copy of the industrial NOI form for each facility.
- iii. Implement and enforce procedures for controlling, reducing or eliminating the discharge of pollutants. At a minimum, you must proceed as follows:
 - (1) Require implementation of BMPs,⁸ including sediment and erosion controls during
 - (a) routine maintenance,
 - (b) water line breaks and emergency repairs, and

(c) after line breaks, emergency repairs, and routine maintenance have been completed. Stabilization measures shall be implemented within fourteen (14) calendar days of completion.

- (2) Ensure that vehicle wash waters are not discharged into the MS4 or waters of the state.
- iv. Implement and comply with procedures to ensure that new flood management projects are assessed for impacts on water quality.
 - v. Any contractors hired to perform maintenance activities on MS4 facilities must be contractually required to comply with all of your stormwater control measures, good housekeeping practices and facility-specific stormwater management operating procedures. The MS4 shall provide oversight to ensure these contractual obligations are met.
 - vi. Implement and enforce procedures for inspection and maintenance of structural and non-structural BMPs, including maintenance activities, maintenance schedules and long-term inspection procedures for controls to reduce floatables and other pollutants discharged to your small MS4. At a minimum, inspections shall be conducted at the Category 2 frequencies outlined in Table V-6 of the OKR04 Permit and shown below.
 - vii. Implement a Good Housekeeping Education Program: Annually conduct staff training to prevent and reduce stormwater pollution from MS4 activities.

Table V-6 Minimum Frequency of Inspections at Facilities Subject to MCM 6

	Category 1	Category 2	Category 3
Site inspections at MS4 facilities subject to the OKR05 or individual OPDES or NPDES permit	once per quarter	once per quarter	once per quarter
Site inspections at other MS4 facilities impacted by this program	once per year	once per year	once per year

3.6.1 Best Management Practices for Good Housekeeping

Appendix A contains a list of all BMPs that will be performed for this MCM. Each BMP includes a measurable goal, target audience, and person responsible for its execution.

All City Employees that work out in the field receive annual training on Municipal Operations Good Housekeeping Practices to prevent and reduce stormwater pollution from MS4 activities.

MS4 Facility Site Inspections: once per year (*once per quarter if OKR05 permitted*)

3.6.2 List of Industrial Permitted Facilities

The following facilities are owned and operated by the City of Bartlesville that are subject to the ODEQ Multi-Sector General Permit for Industrial Activities (OKR05) or individual OPDES or NPDES permits for discharges of stormwater associated with industrial activity that ultimately discharge to the MS4:

- Municipal Operations Center (1710 SW Adams Blvd.) Auth. No. OKR040027
- Golf Maintenance Facility (5801 Tuxedo Blvd) Auth. No. OKR040027
- MUNICIPAL OKR04**

- Bartlesville Municipal Airport (401 Wiley Post Rd) Auth. No. OKR053963
- INDUSTRIAL OKR05**

- Waste Water Treatment Plant (300 N. Chickasaw) Auth. No. WQNEC04915
- Water Treatment Plant (235 W Hudson Lake Rd) Auth. No. WQNEC04889
- NO EXPOSURE CERTIFICATIONS**

The City of Bartlesville will review the status of each permitted municipal facility annually and update the SWMP information as needed.

3.6.3 Controlling Pollutants from MS4 Systems and Facilities

The City's goal is to perform municipal activities in a careful and proper manner that prevents and/or reduces pollutant runoff. To comply with this OKR04 requirement, the City of Bartlesville will implement a program to control, reduce or eliminate pollutants discharged from the MS4. The following areas will be addressed:

- City streets and roads;
- Municipal parking lots;
- City maintenance and storage yards;
- City operated waste transfer stations;
- City fleet maintenance shops with outdoor storage areas;
- municipal salt/sand storage locations; and
- snow disposal areas.

Procedures for Controlling Pollutants:

The City of Bartlesville will take the following actions to reduce or eliminate pollutants from these systems and areas.

Municipal Facilities:

- a. The City of Bartlesville will perform an initial inspection of its facilities to determine potential pollutant sources via stormwater into the MS4;
- b. Where possible, all exposed materials will be moved under removable covers (e.g., tarps) or inside a building to prevent contact with stormwater runoff.
- c. For those materials that cannot be sheltered, such as salt piles for snow removal, structural BMPs will be used where feasible to control contaminated runoff from the storage areas. These will include use of silt fencing, grassy swales, sediment ponds and/or other measures as deemed appropriate.
- d. At least once a year, an inspection of these areas will be made to ensure that the BMPs and storage controls are deployed properly and working.

MS4 System:

- a. BMPs, including sediment and erosion controls, will be implemented during the following types of work:
 - a. routine maintenance,
 - b. water line breaks and emergency repairs, and
 - c. after line breaks, emergency repairs, and routine maintenance have been completed. Stabilization measures shall be implemented within fourteen (14) calendar days of completion.
- b. Vehicle Wash waters will not be allowed to discharge into the MS4 or waters of the state.
- c. Misdemeanant labor will be assigned by local courts to work with MS4 crews picking up trash along streets when necessary.

- d. The City of Bartlesville owns street sweeping equipment that will be used at least 4 times per year to remove floatables, trash and sediment from streets.
- e. MS4 Public Works crews will be trained to report observed pollution problems and/or trash buildup on city streets and in the City's stormwater collection system. When reported, MS4 crews will remove debris and trash from streets and the MS4 system as necessary.
- f. The City will store sand and salt in areas that have sufficient berms and other flow control structures to prevent excess runoff of salt into local streams.
- g. Removed debris and waste materials will be disposed of by transporting the material to a local landfill for disposal. The material to be disposed of includes street sweeper collections, dredged material from drainage systems and creeks, sediment cleanups from streets and lots, floatables removed from culverts and streams, materials from drop inlet cleanouts, and other types of debris removed from the MS4 system.

3.6.5 New Flood Management Projects

The City will implement and comply with the following procedures to ensure that new flood management projects are assessed for impacts on water quality.

- a. The City of Bartlesville will ensure all new flood management projects are assessed for incorporation of adequate BMPs.
- b. The City's Floodplain Administrator and Public Works staff will ensure that potential water quality impacts from new construction and new development projects are considered during administrative reviews of new floodplain management project plans.
- c. New projects will be evaluated during the site plan review process, while existing structures will be evaluated on a case-by-case basis when a water quality problem is documented and the structure is suspected of being a contributor.
- d. If it is feasible and cost effective to add water quality protection features to the project design, a recommendation will be made to incorporate the features before final plans are developed.

3.6.6 Contractors hired to perform MS4 Maintenance Activities

Any contractors hired to perform maintenance activities on MS4 facilities will be contractually required to comply with stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures. The MS4 shall provide oversight to ensure these contractual obligations are met.

3.6.7 Inspection and Maintenance of BMPs

The City will implement and enforce the following procedures for inspection and maintenance of structural and non-structural BMPs in order to reduce floatables and other pollutants discharged to the MS4

- Maintenance activities,
- Maintenance schedules, and
- Long-term inspection procedures for controls

Site inspections for MS4 Facilities subject to the OKR05 or individual OPDES or NPDES permit will be conducted once per quarter. Site Inspections at all other MS4 Facilities will be conducted once per year.

Structural BMPs at municipal facilities include sediment basins, various types of containers for disposal of wastes and fluids, constructed swales and shallow depressions designed to collect runoff and allow infiltration, wet and dry detention basins having inlet and outlet structures, and various types of pervious surfaces used in parking lots and storage areas that allow infiltration of runoff.

Non-structural BMPs at municipal facilities include stormwater-related programs implemented by the City of Bartlesville, including: preservation of open space; expanding disconnections of impervious surfaces; expansion of vegetation and natural systems; natural grass swales and other types of unconstructed, vegetated infiltration areas; and protection and expansion of riparian stream buffers.

BMP Maintenance: Structural BMP maintenance will be according to need and availability of funds and resources. High maintenance priority will be given to structures that have the greatest potential to improve water quality and have a high feasibility of success using available funds. Maintenance will be scheduled upon acquisition of funds and materials, and when manpower and necessary permits are obtained. Projects that have a low chance of improving water quality after maintenance will be considered for replacement or decommissioned. The City of Bartlesville will make every effort to address maintenance issues identified in the BMP inspection program. Non-structural BMP maintenance, such as assessing ordinance effectiveness, will be made annually.

BMP Inspections: The City of Bartlesville will inspect structural BMPs annually or after a report of a stormwater contamination problem at a municipal facility. Inspections of structural BMPs will rely upon visual indicators, such as accumulation of trash and debris, breaks and cracks, misalignments of headwalls and inflow and outflow devices, excessive accumulation of sediment, excessive erosion of slopes, failure of fencing and other public safety features, etc. Inspections of non-structural BMPs will consist of annual reviews of stormwater programs and the corresponding codes and ordinances, and annual inspections of natural features within the MS4 such as riparian areas along creeks and natural swales and infiltration areas.

Results of all inspections and maintenance will be reported to the stormwater staff and recorded in computer and paper files. The Annual Report will include a summary of these activities.

3.6.8 Evaluating Program Effectiveness

The City will evaluate the appropriateness of the identified BMPs for this MCM. The evaluation will verify compliance with permit requirements and document that efforts have been made towards achieving the identified measurable goals and reducing the impacts of stormwater runoff from the small MS4. The City of Bartlesville will employ the following strategy to assess program effectiveness in the Annual Report:

Measurable Goals have been established for each Good Housekeeping BMP. These are listed in Appendix A. Each BMP includes applicable MCMs, measurable goal, target audience, person responsible, and schedule. BMPs were selected by the City of Bartlesville to accommodate local resources with the intent of establishing BMPs efficiently and cost effectively. Sufficient time was built into the implementation schedules to allow for corrective actions to be taken to have an improved program by the end of the permit cycle.

BMP Effectiveness will be demonstrated by keeping records of feedback from individuals and stakeholders in the general public and from agencies and organizations involved with the construction site control program. Feedback from the public, agencies and organizations (email, phone call, fax, letter or personal visit) including outputs and outcomes of education events will be recorded in writing. BMP effectiveness will be demonstrated by compiling and evaluating data from city administrative staff. If pollution sources are abated as a result of the inspection and enforcement program, then the abatement action will be logged as a BMP success. Changes in types of issues

reported by the general public and businesses over several years of BMP implementation should demonstrate effectiveness of this MCM.

4.0 Reviewing and Updating the SWMP

1. The SWMP will be reviewed annually in conjunction with the preparation of the annual report to determine the plan's effectiveness and efficiency.
2. If required, the SWMP will be revised by the City during the term of the permit in accordance with the approved permit procedures. Modifications to BMPs will provide the following analysis of why the BMP(s) was technically or economically ineffective or infeasible:
 - i. Provide a description of the expectations for the effectiveness of the replacement BMP.
 - ii. Provide an analysis of why the replacement BMP is expected to achieve the goals of the BMP(s) to be replaced.

BMP Modifications Summary

1. **BMP #19** – Promotional Items was replaced with Public Input Program because promotional items are no longer being distributed by GCSA. Replacing the promotional items with the Public Input Program will enable the City to visually assess, track, identify, and target potential problem areas for future stormwater improvement projects to reduce and eliminate pollutants entering the MS4 system and Waters of the State.
2. **BMP #34 thru #37 & #40** - added to identify items already being done that specifically target bacteria pollutant elimination.
3. **BMP #38 & #39** – Added to ensure the following occur annually: Spill Response Staff Training, SOP Reviewed, and Supplies Replenished.

5.0 Transfer of Ownership or Operational Authority

The SWMP will be implemented by the City of Bartlesville for all new areas added into the City's MS4 area as soon as possible, but not later than one year from the addition of the new areas. Implementation may be accomplished in a phased manner to allow additional time for controls that cannot be implemented immediately.

Within 90 days of a transfer of ownership, operational authority, or responsibility for SWMP implementation, the City will create a plan for implementing the SWMP on all affected areas.

APPENDIX A: Best Management Practices and Measurable Goals for the Six MCMs

BMP	MCM Type(s)	Annual Measurable Goal / Target Audience	Who Will Implement	Schedule
1. Educational Brochures/Flyers	1,3,4,6	Distribute 100 educational brochures / targeting Citizens (40), Ranchers (5), Owners of Pets (45), Septic Systems (5), & Ponds (5)	Shelley	Annually
2. Staff Training / Continuing Education	1,3,4,5,6	Training for IDDE, Good Housekeeping, Construction Inspections, Stormwater Management / City Staff	James & Shelley	Annually
3. MS4 Mapping	1,3,4,5,6	Update Maps / City Staff & Area Citizens	Shelley & GCSA	Annually
4. Ordinance	3,4,5	Review, Revise as needed, & enforce / area developers & contractors	Shelley & Micah	Annually
5. Public 2-Way Communication	1,3,4,5	Maintain 2-way communication network / targeting the general public	Shelley	All Year
6. Site Plan Reviews	3,4,5	Utilize checklist for all site plan reviews & review checklist annually / developers	Micah	Annually
7. Water Quality Conference	1,3,4,5,6	Attend 1 conference in person or online equivalent / stormwater staff	Shelley	Annually
8. Public Meetings	1,3,4,5,6	1 Public Meeting (min) / general public	James/Shelley	Annually
9. Pollution Data	1,3,4,5,6	Gather, Log, & Review Blue Thumb Testing Data done in MS4 and log all drainage complaints / stormwater manager	Shelley	All Year
10. Stormwater Website	1,3,4,5,6	Maintain & Update City Stormwater Website / general public, contractors, & developers	Shelley	Annually
11. Stormwater Display	1,3,6	Maintain one educational stormwater display at City Hall or Library / general public	Shelley	Annually
12. Contractor, Developer, & Local Business Education	1,3,4,5,6	Distribute applicable brochures to 5 contractors, 5 developers and 3 local businesses / Contractors, Developers and Businesses	James	Annually
13. School Age Education	1,3	Distribute 50 Children's Coloring Books and Update Educational Opportunities on Website / area children	Shelley	Annually
14. Adopt-A-Stream Program	1,3	Update & Promote Program Information on Website / area citizens and groups	Shelley	Annually
15. Storm Drain Marking	1,3	Mark 10 area storm drain inlets and promote volunteer storm drain marking program / area citizens and groups	James	Annually
16. Stream Cleanup	1,3	Review and update website information and promote volunteer stream cleanups / area citizens and groups	Shelley	Annually
17. Pollutant Collection	1,3,6	Participate in Annual Clean House Collection Event / area citizens	Micah	Annually
18. Recycling	1,3,6	Promote Recycling on Social Media (5x min) / area citizens	Shelley	Annually
19. Public Input Program	1,4	Record, research, & follow up on all stormwater related public input received from hotline and complaint forms / General Public	Shelley	Annually

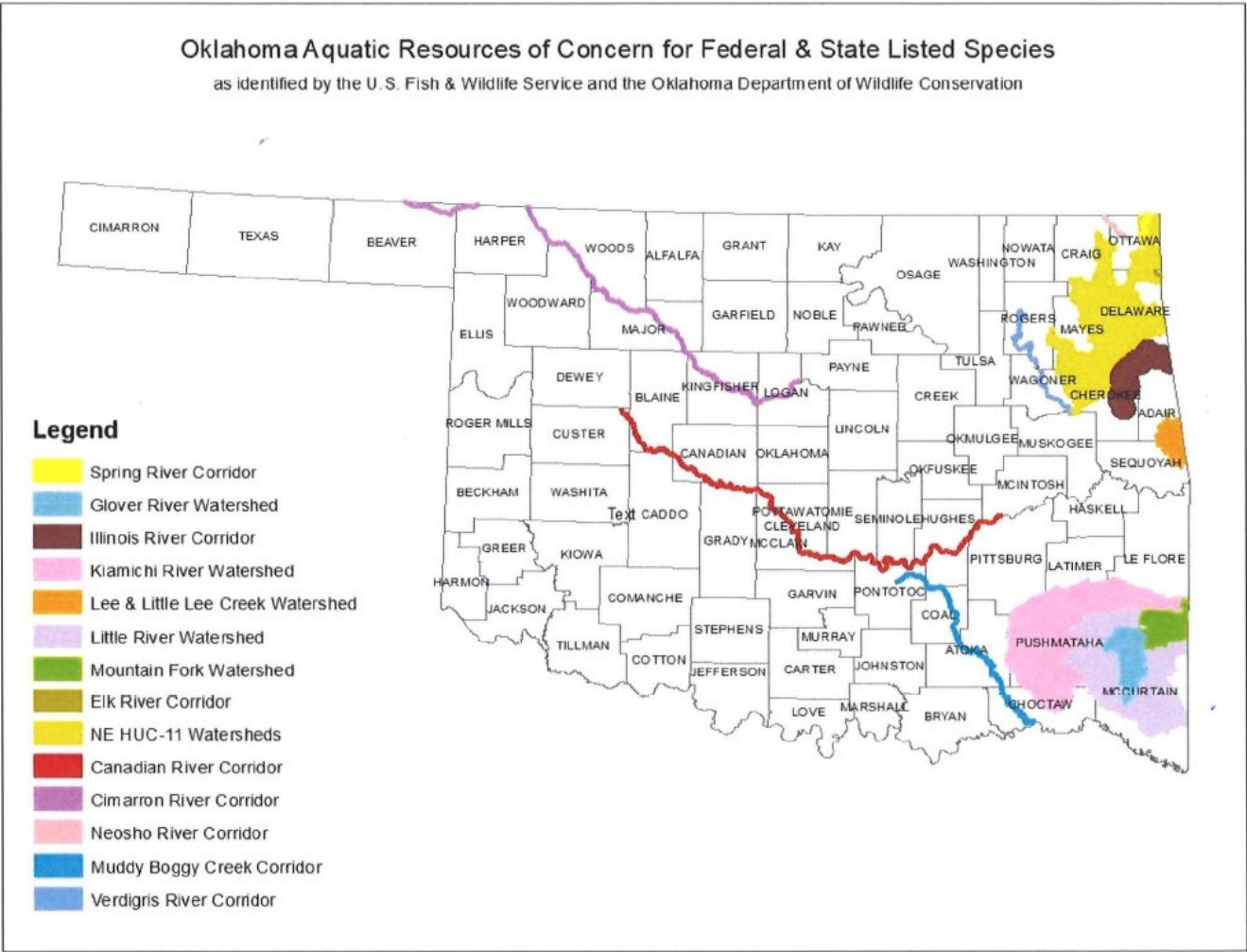
BMP	MCM Type(s)	Annual Measurable Goal / Target Audience	Who Will Implement	Schedule
20. Post-Construction BMP Inspections	3,5,6	Review and Update Post-Construction BMP Map and Perform Annual Post-Construction Inspections / Stormwater Mgr and Inspector	James/Shelley	4 th Quarter Annually
21. Construction Site Inspections	4,5	Inspect & enforce municipal, state, & federal requirements – maintain records of all OKR10 site inspections / stormwater inspector	James	All Year
22. City MS4 Facility Inspection	3,6	1 Operations Yard & 1 Golf Course Maintenance Facility Inspection per yr / municipal operations staff	James	4 th Quarter Annually
23. Public Media Articles	1,3	Stormwater quality ads on Social Media / general public	Shelley	Annually
24. Green Program (Arbor Day trees & plants)	1,3,6	Promote Low Impact Development and Conduct (1 min) Green Event promoting trees & plants / general public	Shelley/ Bobby	Annually
25. Poster	1,3	Update Stormwater Awareness Poster at Library / library patrons	Shelley	Annually
26. Digital Newsletter Ads	1,3	Place stormwater awareness ad in City Newsletter (2x min) / general public	Shelley/Kelli	2X/Year (min)
27. Public Service Announcement	1	City Council Meetings, Radio, and/or Cable TV Announcements (2x min) / general public	Micah	Annually
28. Street Sweeping	6	Sanitation Dept. to use two trucks daily and cover entire City 6 times a year / field staff	Keith	Annually
29. Floodplain Management	3,4,6	Review floodplain program and mail out one floodplain brochure in utility bills / area homeowners and renters	Micah	Annually
30. Ditch Cleaning	6	Clean 5 ditches / Street Dept	Street Dept Mgr	Annually
31. Dry Weather Field Screenings (DWFS)	3,6	Inspect 20 outfalls focusing on high priority areas / stormwater inspector	James	Annually
32. Pet Waste Stations	1,6	Maintain Existing Pet Stations / area pet owners	Bobby	All Year
33. Storm Drain Maintenance	3,6	Clean area inlets after major rain events / street dept	Street Dept Mgr	All Year
34. San Swr System Inspections	3,6	Inspect 500 lf sanitary sewer lines / WW Dept	WW Mntc Mgr	Annually
35. San Swr System Repairs	3,6	Make repairs covered by annual budget as discovered/ WW Dept	WW Mntc Mgr	Annually
36. Lift Station Inspections	3,6	Inspect Lift Stations in Bacteria 303(d) watersheds / WW Dept	WW Mntc Mgr	Annually
37. Lift Station Maintenance	3,6	Perform basic maintenance & evaluate for larger project/ WW Dept	WW Mntc Mgr	Annually
38. Spill Response SOP Review	3,6	Review SOP & replenish supplies / WW Dept	Keith	Annually
39. Spill Response Training	3,6	Staff Training on Spill Response SOP / Public Works Staff	Keith	Annually
40. On-Site San Sewer Facilities (OSSF) Inspections	3,6	Identify & Inspect (5) OSSFs / OSSF Owners	Terry	Annually

APPENDIX B: Documentation of Selection Criteria for Protected Species

Procedures for and Documentation of the Selection of Criteria to Meet Eligibility for Protection of Endangered Species per OKR04 Permit

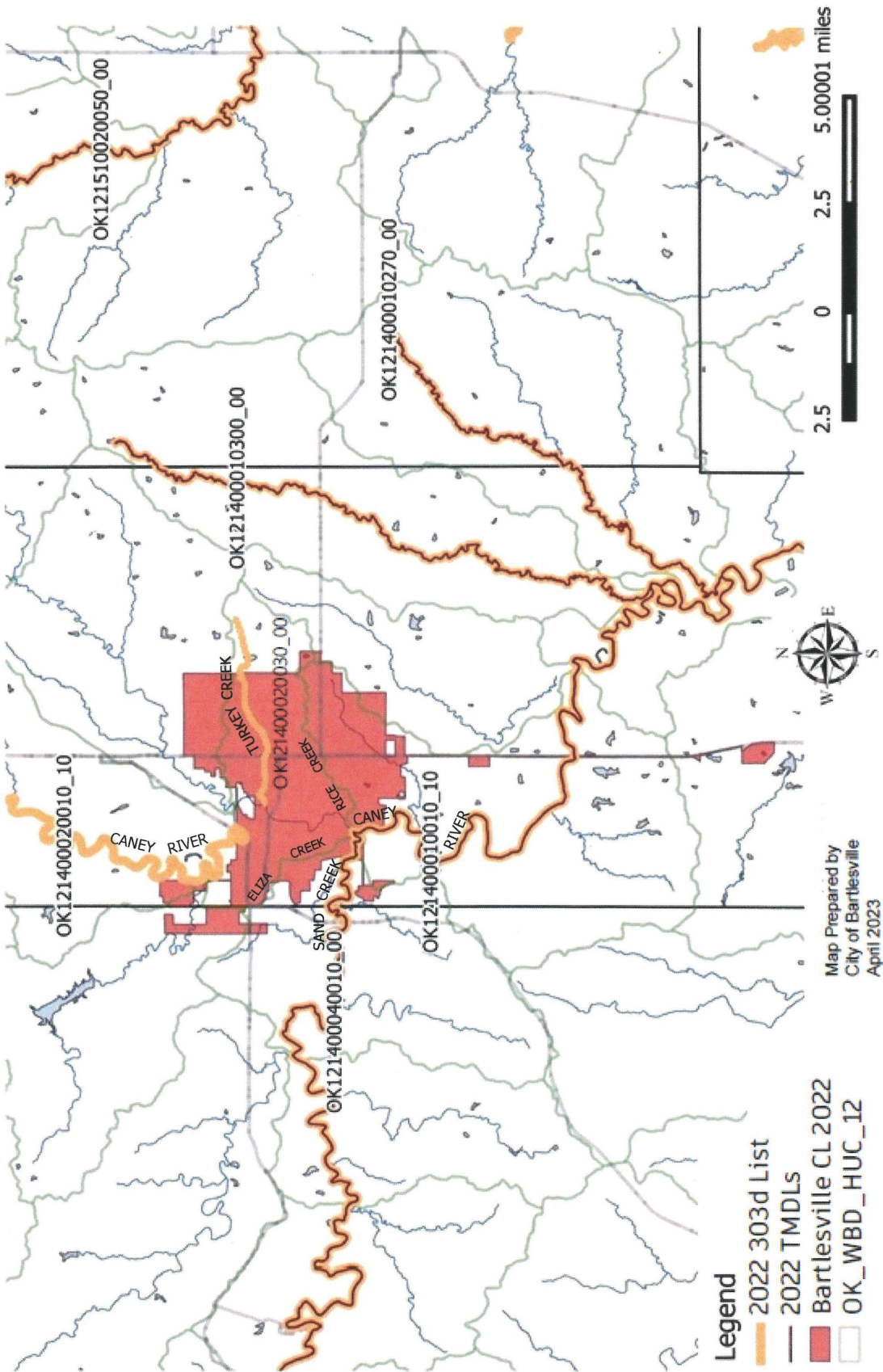
After comparing ARC delineations in Exhibit 1 with the MS4 boundary, it was determined that no part of the MS4 lies within any portion of an ARC. Therefore, this MS4 has no stormwater discharge that will likely affect endangered species or critical habitat.

Exhibit 1



APPENDIX C: Map of MS4 and Water Features

City of Bartlesville 2022 303(d) and Completed TMDL Waterbodies



APPENDIX D: Written Agreement(s) By Another Governmental Entity



Regional Partners — Regional Solutions

2 West Second Street Suite 800 | Tulsa, OK 74103 | 918.584.7526 | www.INCOG.org

November 17, 2020

INCOG Services To Green Country Stormwater Alliance (GCSA) Members

The following is a summary of INCOG services performed annually on behalf of its GCSA Members. The table identifies services as either general program support activities or Best Management Practices (BMPs) falling under one or more of OKR04's Minimum Control Measures (MCMs). This letter fulfills OKR04's Annual Report requirement in Part VI.C.1.i to provide a "written agreement" with "another government entity" if the permittee is relying on them "to satisfy some of your permit obligations". A copy of this agreement must also be kept with the MS4's SWMP per OKR04 Part V.A.5.

INCOG Activity	BMP or Support	Support Service Description
Co-host water quality and stormwater conferences	Support	Work with other agencies as co-host. Assist with conference planning, and give presentations on stormwater topics.
Employee training workshops and virtual meetings	BMP	Organize and hold workshops and online virtual training on OKR04-required training topics and MS4 technical priorities.
Education materials	Support	Develop, acquire and make available to GCSA members. Post downloadable files on GCSA website.
Technical assistance	Support	Research technical and permit issues important to GCSA members. Report results via fact sheets, news bulletins and in workshops.
GCSA website	BMP	Annual updates of website materials on priority issues.
Guidance, Templates, Plans	Support	Prepare technical guidance and templates for member support. Research and develop TMDL-related Plans and guidance.
Education outreach documents	Support	Prepare Workbooks, News Bulletins, Announcements, Fact Sheets, White Papers, and Newsletters on important stormwater topics.
Individual MS4 assistance	Support	Upon request, meet with MS4 staff, city councils, county commissions and committees on OKR04 and local issues.
Mapping and field inspections	Support	Prepare regional and MS4 maps and forms, train members on equipment use and sampling procedures, assist with inspections.
OKR04 permit compliance	Support	Assist MS4s with SWMPs, NOIs, SOPs, Annual Reports, QA, permit requirements, DEQ Audits and enforcement issues.

OKR04 Part VII.H.4 Required Certification Statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


INCOG Executive Director

11/17/2020
Date



Oklahoma Conservation Commission
Blue Thumb Water Quality Education Program
2800 N. Lincoln Blvd, Suite 200
Oklahoma City, Oklahoma 73105
405-522-4735
<http://www.bluethumbok.com>

March 2, 2023

Municipalities with OKR04 Permit Requirements

To Whom It May Concern:

The Oklahoma Conservation Commission's Blue Thumb Program has two primary responsibilities: 1) to support Blue Thumb volunteers who monitor local streams; and 2) to educate Oklahomans about the management of non-point source pollution. The Blue Thumb program can offer the following services to support your program:

1. Provide education about water quality and stormwater management.
2. Assist in the development of educational materials.
3. Provide educational information, instructional videos and a calendar of events through our website.
4. Train city employees and local volunteers to perform stream monitoring.
5. Help organize local volunteers to do a storm drain marking campaign. (We do not provide materials).
6. Provide tools, materials, and staff to engage in educational outreach to schools and other groups or organizations in your community.

We hope these services can help you meet requirements for your OKR04 permit and we look forward to working with you.

Sincerely,

Rebecca Bond
Blue Thumb Coordinator
Oklahoma Conservation Commission

APPENDIX E: ACRONYMS AND DEFINITIONS

Refer to 2021 OKR04 Part I for a list of definitions of terms used in the OKR04 stormwater permit program. The following list of acronyms was compiled by INCOG. These pertain to contents of this SWMP and include terms involved with specific activities, such as assessing laboratory data and technical reports from other agencies.

%Sat	Percent saturation of dissolved oxygen in a water sample.
303(d)	Section 303(d) of the Clean Water Act requiring biannual assessment of beneficial uses.
BMP	Best Management Practice, particularly regarding pollution controls.
BOD	Biochemical oxygen demand; a test of potential for a water sample to use up oxygen.
BUMP	Beneficial Use Monitoring Program; OWRB's sampling program to support USAP.
°C	Degrees centigrade or Celsius; the most common unit of measure for temperature.
CBOD5	Carbonaceous BOD, incubated 5 days; common NPDES permit requirement for WWTPs.
CBOD20	CBOD incubated 20 days; equivalent to "ultimate" (maximum) CBOD in a water sample.
COE	US Army Corps of Engineers.
col/100mL	Colonies per 100 milliliters of water sample; a unit of quantification for bacteria samples.
COSWA	Central Oklahoma Storm Water Alliance.
CPP	Continuing Planning Process; a standards and procedures summary document.
CWA	Clean Water Act; more formally the Federal Water Pollution Control Act.
Diurnal	24-hour cycle, particularly related to how DO changes over a 24 hour period.
DMR	Discharge Monitoring Report; ODEQ's form for filing sampling results.
DO	Dissolved oxygen.
EA / EIS	Environmental Assessment / Environmental Impact Statement.
EPA	US Environmental Protection Agency.
FWS	US Fish and Wildlife Service.
GCSA	Green Country Stormwater Alliance; INCOG's coalition of stormwater permittees.
GIS	Geographic Information System; computer system that relates map features to data.
GPS	Global Positioning System; measuring x and y coordinates (location) from satellites.
HUC	Hydrologic Unit Code, used to classify watershed sizes.
INCOG	Indian Nations Council of Governments; 5-county Tulsa area sub-state planning agency.
LA	Load Allocation; nonpoint source numerical discharge quantity in a TMDL.
MCM	Minimum Control Measure; six categories of permit actions under EPA/ODEQ rules.
mg/L	Milligrams per liter; approximately equivalent to parts per million.

MS4	Municipal Separate Storm Sewer System; also used to designate a stormwater permittee.
NH3-N	Ammonia nitrogen; amount of nitrogen as ammonia.
NO2-N	Nitrite nitrogen; amount of nitrogen as nitrite.
NO3-N	Nitrate nitrogen; amount of nitrogen as nitrate.
NOI	Notice of Intent; application form and process to apply for stormwater permit coverage.
NPDES	National Pollutant Discharge Elimination System; federal discharge permit program.
NWI	National Wetlands Inventory by the US Fish and Wildlife Service
OAC	Oklahoma Administrative Code
OCC	Oklahoma Conservation Commission.
ODEQ	Oklahoma Department of Environmental Quality.
OKR04	ODEQ's stormwater general permit for small MS4s.
OKR05	ODEQ's stormwater general permit for industrial activities.
OKR10	ODEQ's stormwater general permit for construction activities.
OPDES	Oklahoma Pollutant Discharge Elimination System; the state discharge permit program.
OWRB	Oklahoma Water Resources Board.
QAPP	Quality Assurance Project Plan; formal documentation about ensuring data integrity.
RCRA	Resource Conservation and Recovery Act; for control of hazardous substances.
SOP	Standard Operating Procedure; description of repetitive tasks such as inspections.
s.u.	Standard Unit for pH measurements.
SWMP	Stormwater Management Program document required by stormwater permits.
SWP3	Stormwater Pollution Prevention Plan; required by construction stormwater permit.
TDS	Total dissolved solids; reflects on presence of salts and conductivity in a water sample.
TKN	Total Kjeldahl Nitrogen; amount of organic nitrogen plus ammonia in a water sample.
TMDL	Total Maximum Daily Load; study accounting for all point and nonpoint sources.
TP	Total phosphorus.
TRI	Toxics Release Inventory; national database of releases of over 650 chemical types.
ug/L	Micrograms per liter; approximately equivalent to parts per billion.
USAP	Use Support Assessment Protocol; methods used in 303(d) assessments.
USGS	United States Geological Survey.
WBID	Waterbody Identification; Oklahoma's system of classifying streams.
WLA	Wasteload allocation; point source numerical quantity in a TMDL and discharge permits.

WQS	Water quality standards.
WWTP	Wastewater treatment plant; also referred to as POTW (publicly owned treatment works).

All definitions contained in Section 502 of the Act and 40 CFR §122 shall apply to this permit and are incorporated herein by reference. For convenience, simplified explanations of some regulatory/statutory definitions have been provided, but in the even of a conflict, the definition found in the Statute or Regulation takes precedence.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Construction Site Operator means the party or parties that meet one or more of the following descriptions:

- (1) Has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications or;
- (2) Has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a Storm Water Pollution Prevention Plan for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWP3 or comply with other permit conditions).

Control Measure as used in this permit, refers to any Best Management Practice or other method used to prevent or reduce the discharge of pollutants to waters of the State.

CWA or The Act means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.

Director means the Executive Director or chief administrator of the Department of Environmental Quality or an authorized representative.

Discharge, when used without a qualifier, refers to “discharge of a pollutant” as defined at 40 CFR §122.2.

Illicit Connection means any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

Illicit Discharge is defined at 40 CFR §122.26(b)(2) and refers to any discharge to a municipal separate storm sewer that is not entirely composed of storm water, except discharges authorized under an OPDES or NPDES permit (other than the OPDES permit for discharges from the MS4) and discharges resulting from firefighting activities.

MEP is an acronym for "Maximum Extent Practicable," the technology-based discharge standard for Municipal Separate Storm Sewer Systems to reduce pollutants in storm water discharges that was established by CWA §402(p). A discussion of MEP as it applies to MS4s is found at 40 CFR § 122.34.

MS4 is an acronym for "Municipal Separate Storm Sewer System" and is used to refer to either a Large, Medium, or Small Municipal Separate Storm Sewer System. The term is used to refer to either the system operated by a single entity or a group of systems within an area that are operated by multiple entities (e.g., the Oklahoma City MS4 includes MS4s operated by Oklahoma City, the Oklahoma Department of Transportation, and others).

Municipal Separate Storm Sewer System is defined at 40 CFR § 122.26(b)(8) and means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States; (ii) Designed or used for collecting or conveying storm water; (iii) Which is not a combined sewer; and (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR §122.2.

NOI is an acronym for “Notice of Intent” to be covered by this permit and is the mechanism used to “register” for coverage under a general permit.

Small Municipal Separate Storm Sewer System is defined at 40 CFR §122.26(b)(16) and refers to all separate storm sewers that are owned or operated by the United States, a state, city, town, county, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the State, but is not defined as “large” or “medium” municipal separate storm sewer system. This term includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings.

Storm Water is defined at 40 CFR §122.26(b)(13) and means storm water runoff, snow melt runoff, and surface runoff and drainage.

Storm Water Management Program (SWMP) refers to a comprehensive program to manage the quality of storm water discharged from the municipal separate storm sewer system.

SWMP is an acronym for “Storm Water Management Program.”

APPENDIX F: ILLICIT DISCHARGE ORDINANCE

ORDINANCE NO. 3184

Published in the Bartlesville Examine
Enterprise on Dec. 4, 2005

AN ORDINANCE CONCERNING THE OBSTRUCTION OF DRAINAGEWAYS.

WHEREAS, materials dumped or deposited in drainageways and certain construction can create obstructions to storm drainage and flood flows; and

WHEREAS, it is in the best interest of the entire community to maintain clear and open drainageways.

NOW, THEREFORE, BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF BARTLESVILLE, OKLAHOMA:

Section 1. Regulation. It shall be unlawful for any person, firm, or corporation, in person or by his agent or employee to dump, deposit, place or otherwise cause to be placed any trash, landscape debris, construction materials, earthen fill, or other materials or debris of any kind whatsoever into stormwater facilities or within or along the banks of any natural or man-made stream, creek, channel, watercourse, drainageway or retention/detention basin or in adjacent floodplain areas which may wash into streams and/or stormwater facilities or to cause any construction which obstructs the flow of water. Provided that this section shall not apply to any construction or deposition of material under a permit authorized by any ordinance of the city.

Section 2. Enforcement. The Code Enforcement Officer and other duly authorized employees of the city of Bartlesville shall be permitted to enter upon all properties for the purpose of investigation, inspection, observation, and taking enforcement action in accordance with the provision of this ordinance.

Section 3. Penalty.

a. Any person, firm, or corporation agent or employee found to be violating the provision of this ordinance shall immediately and at his expense remove all such material upon written notice by the city. The offender shall, within the period of time stated in such notice, permanently abate and cease all violations.

b. Any person, firm, or corporation agent or employee who shall violate the provision of this ordinance shall be deemed guilty of a misdemeanor punishable as provided in Section 1-18 for violations of the provisions of this Code.

PASSED BY THE CITY COUNCIL AND APPROVED BY THE MAYOR OF THE CITY OF BARTLESVILLE, OKLAHOMA, THIS 21ST DAY OF November, 2005.

ATTEST:

City Clerk

(SEAL)



Julie Daniels, Mayor

VOTE:

MR. MASON	aye	no
MRS. DALRYMPLE	aye	no
MR. MILLER	aye	no
VICE MAYOR DUNLAP	aye	no
MAYOR DANIELS	aye	no

APPENDIX G: CONSTRUCTION SITE EROSION & SEDIMENT CONTROL

Published in the Bartlesville
Examiner Enterprise on

January 11, 2023

ORDINANCE NO. 3565

AN ORDINANCE AMENDING SECTION 7.4.9 OF THE ZONING REGULATIONS FOR THE BARTLESVILLE CITY PLANNING AREA, PERTAINING TO THE GENERAL DEVELOPMENT STANDARDS, SOIL EROSION AND SEDIMENT CONTROL.

WHEREAS, the Bartlesville City Planning Commission (CPC) held a public hearing on December 13, 2022, to consider proposed amendments to the Zoning Regulations of the Bartlesville-Washington County Metropolitan Planning Area; and

WHEREAS, the City Council reviewed the Planning Commission's recommendation and, after conducting a second public hearing on January 3, 2023, concluded the proposed amendments to be appropriate.

NOW, THEREFORE, BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF BARTLESVILLE, OKLAHOMA:

Section 1. That Section 7.4.9, Soil Erosion and Sediment Control, of the Zoning Regulations of the Bartlesville City Planning Area (aka: Appendix A, Sec 7.4.10, Soil Erosion and Sediment Control, of the Bartlesville City Municipal Code) is hereby amended as shown on the annotated copy attached hereto as Exhibit A.

PASSED by the City Council and APPROVED by the Mayor of the City of Bartlesville, Oklahoma this 3rd day of January, 2023.


Dale Copeland, Mayor

City of Bartlesville
401 S Johnstone Ave.
Bartlesville, OK 74003

ATTEST:


Jason Muninger, City Clerk
(SEAL)

VOTE:

MR. ROSZEL	aye	no
MR. DORSEY	aye	no
MS. ROANE	aye	no
VICE MAYOR CURD	aye	no
MAYOR COPELAND	aye	no



EXHIBIT A

7.4.9 *Soil Erosion and Sediment Control* Soil erosion and sediment control-related measures are required for any regulated land-disturbance activity, in accordance with the standards of this Section. All temporary measures and permanent erosion control and sediment control shall be maintained continuously in an effective working condition.

Soil erosion and sediment control-related measures are required during any construction activities causing land disturbance. Persons conducting any land disturbing construction activity must provide, implement, and maintain adequate structural and/or nonstructural Best Management Practices (BMPs) to control erosion and prevent the discharge of pollutants to the area waterways and municipal stormwater drainage system. All temporary construction site stormwater runoff control BMPs and post-construction stormwater runoff BMPs shall comply with the current City of Bartlesville Construction Standards and all ODEQ stormwater discharge requirements.

Additionally, any project with construction activities resulting in a total land disturbance of greater than or equal to one (1) acre or a disturbance of less than one (1) acre if the construction site is part of a larger common plan of development or sale that totals at least one (1) acre, must obtain a Stormwater General Permit for Construction Activities within the State of Oklahoma (OKR10) through the state of Oklahoma's Department of Environmental Quality (ODEQ). The required 'Sediment and Erosion Control Plan' and 'Stormwater Pollution Prevention Plan (SWP3)' must both be prepared following permit requirements and submitted to the City, as part of the construction plans submittal for review. Both the plans must comply with good engineering practices and meet all provisions of the OKR10 permit and follow City Stormwater Design Requirements. Proof of authorized state permit may be required in a form acceptable to the Environmental Administrator prior to the allowing of any construction activities to begin.

A. General

1. Soil disturbance shall be conducted in such a manner as to minimize erosion. Soil stabilization shall consider the time of year, site conditions, and the use of temporary and permanent measures.
2. Properties and channels located downstream from development sites shall be protected from erosion and sedimentation. At points where concentrated flow leaves a site, stable downstream facilities are required.
3. Soil erosion and sediment control features shall be constructed prior to the commencement of upland disturbance.
4. If de-watering devices are used, adjacent properties shall be protected. Discharges shall enter an effective sediment and erosion control measure.
5. For detached single-family residential development occurring one lot at a time, alternatives to the standards of this Section may be approved by the City Engineer.

B. Soil Stabilization

1. ~~Temporary soil stabilization shall be applied to disturbed areas within 14 days of the end of soil disturbance to all areas that will not be final graded and stabilized within 45 days.~~ must be initiated immediately on any disturbed areas where construction activities have permanently ceased on any portion of the site or will be temporarily inactive for 14 or more calendar days on any portion of the site. In the context of this provision, "immediately" means as soon as practicable, but no later than the end of the next work day, following the day when the earth-disturbing activities have temporarily or permanently ceased.
2. Permanent stabilization shall be done within 14 days completed as soon as practicable, but no later than 14 calendar days after stabilization measures have been initiated, or 7 calendar days if discharging to an impaired water, or ORW, or ARC as defined and required in ODEQ's OKR10 Permit. Permanent soil stabilization measures shall be applied to channels (including bed and banks) within 14 days of the end of primary disturbance of the channel.
3. Permanent or temporary vegetation shall not be considered established until sufficient ground cover is mature enough to control erosion.
4. Earthen embankments shall be constructed with side slopes with a vertical to horizontal ratio no steeper than 1:3.

(END OF REVISIONS - REMAINDER OF SECTION 7.4.9 WILL REMAIN UNCHANGED)

Enforcement and Penalties – Construction Site Stormwater Runoff Control

11.1 - Enforcement .

It shall be the duty of the Community Development Director or his designees to enforce the provisions of these regulations. If the Director or his designees shall find that any of the provisions of these regulations are being violated, he shall notify in writing the persons responsible for such violations, indicating the nature of the violation and ordering the action necessary to correct it, and shall take such action to ensure compliance with or to prevent violation of its provisions as is authorized by law. All departments, officials and employees of the City of Bartlesville or Washington County vested with the duty or authority to issue permits or licenses shall comply with the provisions of these regulations, and shall issue no permits or licenses for any use, purpose, excavation, construction, structure, building, or sign in conflict with the provisions of these regulations.

11.2 - Violation and Penalty.

A violation of these regulations shall be deemed a misdemeanor and shall be punishable by fine or by imprisonment or both, as now provided by law for misdemeanors . Each day that a violation is permitted to exist shall constitute a separate offense. Nothing herein contained shall prevent the City of Bartlesville, Washington County, or its authorized officials from taking other action, authorized by law, to remedy violation.

Letter regarding City Enforcement of Soil Erosion and Sediment Control Regulations

THE CITY OF BARTLESVILLE

401 South Johnstone Avenue
Bartlesville, Oklahoma 74003



www.cityofbartlesville.org

Enforcement of Soil Erosion and Sediment Control Zoning Regulations

The EPA through its national Pollutant Discharge Elimination System regulations are requiring all municipalities, including Bartlesville, with municipal separate storm sewer systems to enforce a Soil Erosion and Sediment Control (SESC) ordinance.

The city will be enforcing the enclosed zoning regulations as the city's storm water program is confirmed by the Oklahoma Department of Environmental Quality. Proper construction of silt fencing and other erosion and sediment controls as shown by the enclosed Best Management Practice (BMP) instructions will be strictly enforced.

Pollution through storm runoff is intensified at construction sites due to the removal of the natural ground cover of the site as well as the introduction of hazardous chemicals and wastes to the area. Measures are required both during construction and after the completion of construction to prevent erosion or to intercept sediment prior to it leaving the site. This can be accomplished through the use of ground cover mulching, paving, silt fences, and sediment basins along with construction methods to reduce the disturbed areas of construction.

Housing lots are included if they are a part of a larger new subdivision

For more information contact Ken Robinson, Environmental Technician, Engineering Services, (918) 338-4258, karobinson@cityofbartlesville.org.

Regards,

Ken Robinson
Environmental Technician

Soil Erosion and Sediment Control City Standard Details For OKR10 Projects (page 1 of 2)

NOTES:

1) THE SILT FENCE SHALL BE A WOVEN, POLYPROPYLENE, POLYESTER, OR POLYAMIDE MATERIAL, THAT SHALL BE RESISTANT TO ULTRAVIOLET DEGRADATION AND ROT. THE EDGES OF WOVEN FABRIC SHALL BE SEALED OR SELVAGED TO PREVENT RAVELING. THE FABRIC SHALL EXHIBIT THE FOLLOWING PHYSICAL PROPERTIES WHEN SAMPLED AND TESTED USING THE SPECIFIED METHODS.

PROPERTY	TEST METHODS	VALUES	PROPERTY	TEST METHODS	VALUES
Grab Tensile	ASTM D-4632	100 LB. (Min.)	UV Resistance	ASTM D-4355	80% (Min.)
B elongation @ Yield	ASTM D-4632	10-40% (Max.)	Apparent Opening Size	ASTM D-4751	20-50 US Sieve
Trapezoid Tear	ASTM D-4533	50 LB. (Min.)	Permeability 1/sec	ASTM D-4491	0.1 (Min.)

PREFABRICATED FENCE SYSTEMS MAY BE USED, PROVIDED THEY MEET ALL THE MATERIAL REQUIREMENTS.

2) EROSION CONTROL MEASURES SHALL REMAIN UNTIL 70% STAND OF GRASS IS ESTABLISHED.

3) ALTERNATE EROSION CONTROL DEVICES AND MEASURES MAY BE USED AS LONG AS THEY ARE IN ACCORDANCE WITH DEVICES AND MEASURES APPROVED BY THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY.

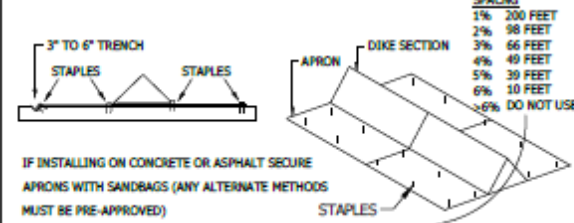
INSPECTIONS

(DOCUMENTATION OF INSPECTIONS IS REQUIRED AS WELL AS ON-SITE RETENTION OF ALL INSPECTION RECORDS)

- PERFORMED EVERY SEVEN DAYS OR AFTER ANY 1/2 INCH RAIN.
- MAJOR OBSERVATIONS TO BE MADE DURING INSPECTIONS:
 - LOCATIONS OF DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS.
 - LOCATIONS OF BMPs THAT ARE NEEDING MAINTENANCE.
 - LOCATIONS OF BMPs THAT ARE NOT PERFORMING, FAILING TO OPERATE, OR ARE INADEQUATE.
 - LOCATIONS WHERE ADDITIONAL BMPs ARE NEEDED.

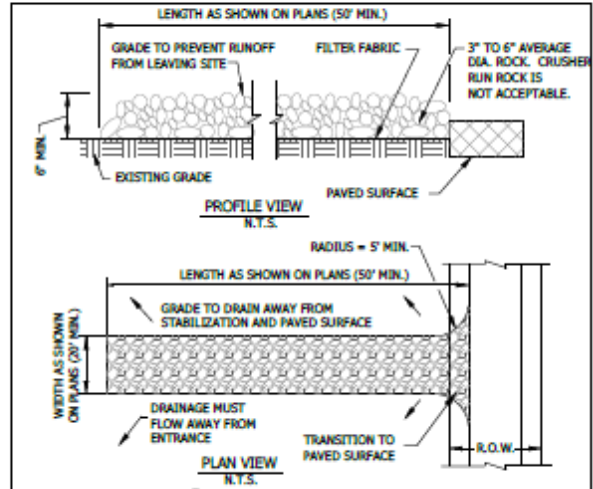
TEMPORARY SILT DIKES

SHALL BE TRIANGULAR-SHAPED, HAVING A HEIGHT OF AT LEAST EIGHT TO TEN INCHES (8" - 10") IN THE CENTER WITH EQUAL SIDES AND A SIXTEEN TO TWENTY INCH (16" - 20") BASE. TRIANGULAR-SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. OUTER COVER SHALL BE WOVEN GEOTEXTILE FABRIC PLACED AROUND INNER MATERIAL AND ALLOWED TO EXTEND BEYOND BOTH SIDES OF TRIANGLE TWO TO THREE (2' - 3') FEET. STANDARD LENGTH OF EACH DIKE WILL BE SEVEN FEET (7') UNLESS OTHERWISE INDICATED ON PLANS. DIKES SHALL BE ATTACHED TO GROUND WITH WIRE STAPLES. STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST SIX TO EIGHT (6" - 8") INCHES LONG. STAPLES SHALL BE PLACED AS INDICATED ON INSTALLATION DETAIL. DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR R/W LINE TO CONTAIN SEDIMENT OR AS A DITCH BARRIER PLACED PERPENDICULAR TO THE FLOW OF WATER IN A DEFINED DRAINAGE DITCH TO MINIMIZE EROSION AND CONTAIN SEDIMENT. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER. ANY DEFICIENCIES OR DAMAGE FOUND DURING INSPECTIONS SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY.

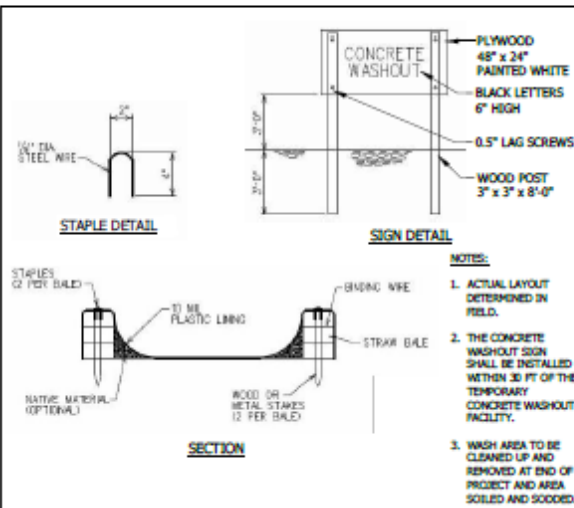


NOTE: EROSION-CONTROL BLANKETS (DETAIL F) SHOULD BE USED IN AREAS OF HIGH FLOW AND/OR STEEP SLOPES (>6%) WHERE EROSION WILL OCCUR BEFORE GRASS GROWTH OR WHERE NORMAL GRASS GROWTH WILL BE HINDERED BY POOR SOIL QUALITY.

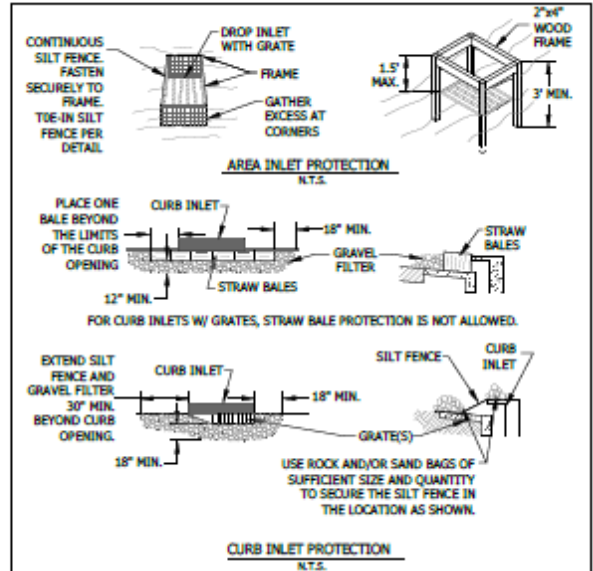
A SILT DIKE



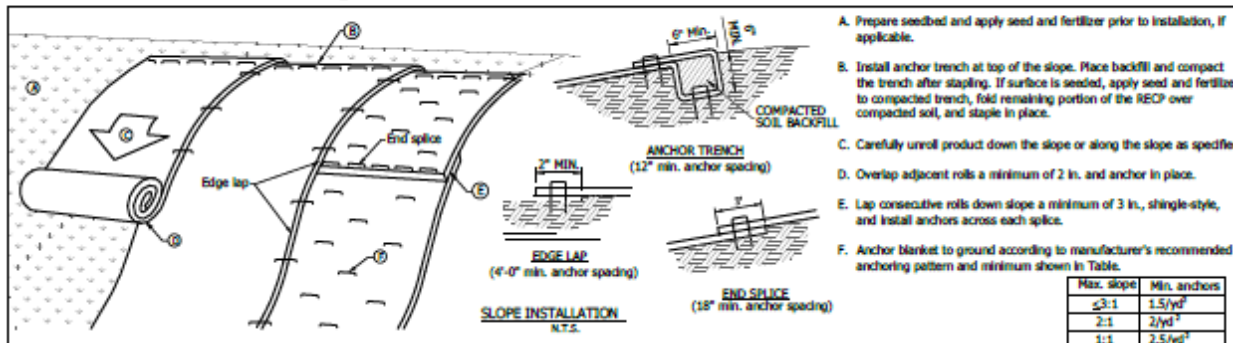
B STABILIZED CONSTRUCTION ENTRANCE



C CONCRETE TRUCK WASH AREA



D INLET PROTECTION FILTER BARRIER



- Prepare seedbed and apply seed and fertilizer prior to installation, if applicable.
- Install anchor trench at top of the slope. Place backfill and compact the trench after stapling. If surface is seeded, apply seed and fertilizer to compacted trench, fold remaining portion of the RECP over compacted soil, and staple in place.
- Carefully unroll product down the slope or along the slope as specified.
- Overlap adjacent rolls a minimum of 2 in. and anchor in place.
- Lap consecutive rolls down slope a minimum of 3 in., shingle-style, and install anchors across each splice.
- Anchor blanket to ground according to manufacturer's recommended anchoring pattern and minimum shown in Table.

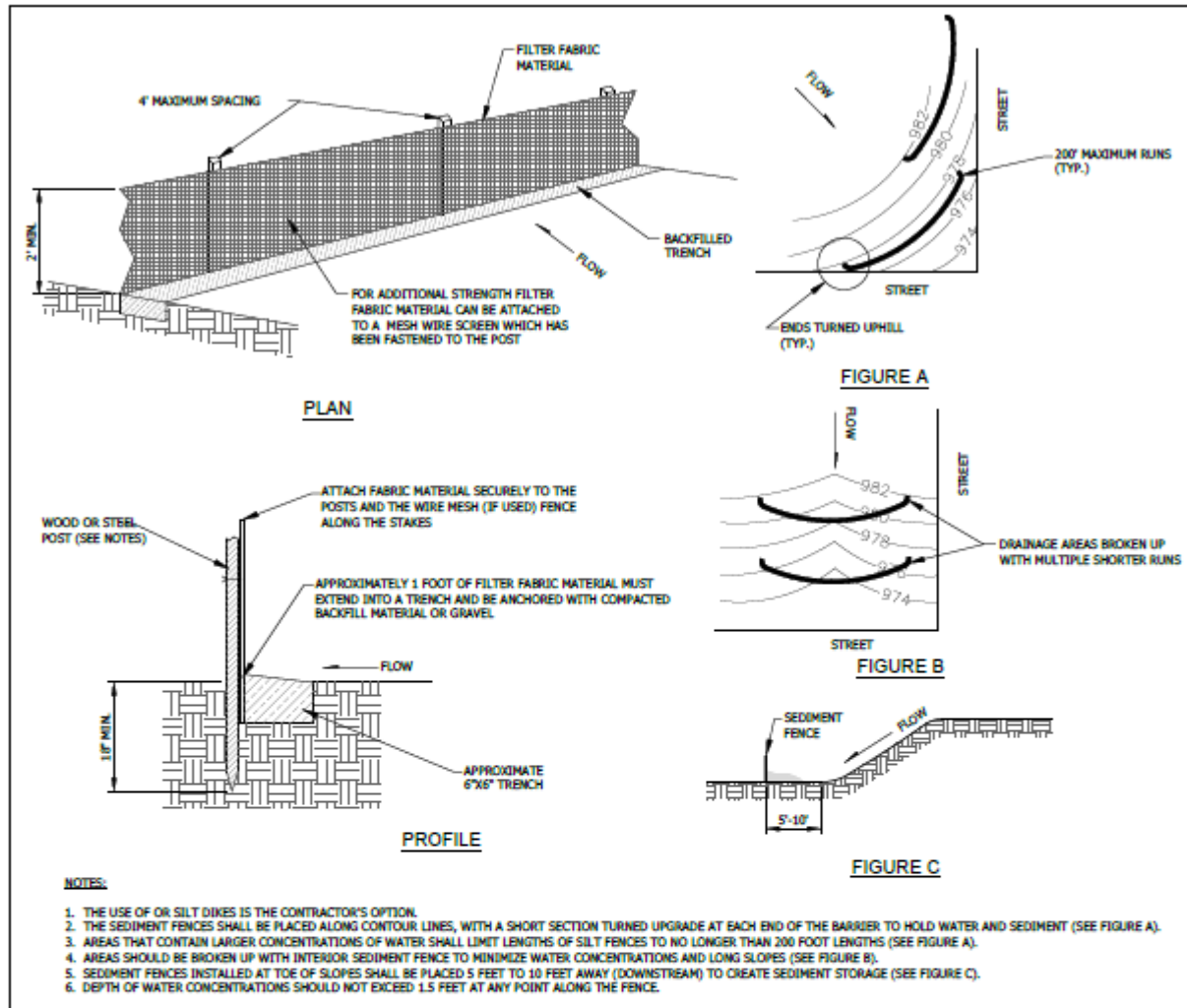
Max. slope	Min. anchors
≤3:1	1.5/yd ²
2:1	2/yd ²
1:1	2.5/yd ²

Soil Erosion and Sediment Control City Standard Details For OKR10 Projects (page 1 of 2)

BEST MANAGEMENT PRACTICES (BMPs)

POLLUTION THROUGH STORM RUNOFF IS INTENSIFIED AT CONSTRUCTION SITES DUE TO THE REMOVAL OF THE NATURAL GROUND COVER OF THE SITE, AS WELL AS THE INTRODUCTION OF HAZARDOUS CHEMICALS AND WASTES TO THE AREA. MEASURES ARE REQUIRED, BOTH DURING CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION, TO STABILIZE THE SITE. STABILIZATION OF THE SITE DURING CONSTRUCTION ACTIVITIES CONSISTS OF THE INSTALLATION OF TEMPORARY OR PERMANENT MEASURES TO PREVENT EROSION, OR TO INTERCEPT SEDIMENT PRIOR TO IT LEAVING THE SITE. THIS CAN BE ACCOMPLISHED THROUGH THE USE OF GROUND COVER MULCHING, PAVING, SILT FENCES, AND SEDIMENT BASINS, ALONG WITH CONSTRUCTION METHODS, TO REDUCE THE DISTURBED AREAS OF CONSTRUCTION.

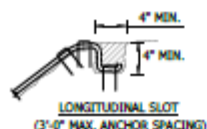
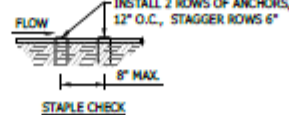
ALL WORK CONSISTS OF FURNISHING, INSTALLING, MAINTAINING, AND, WHEN REQUIRED, REMOVING EROSION CONTROL DEVICES.



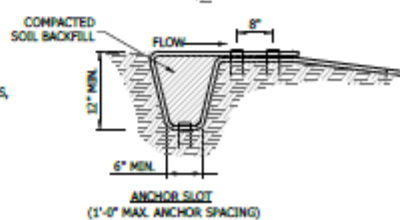
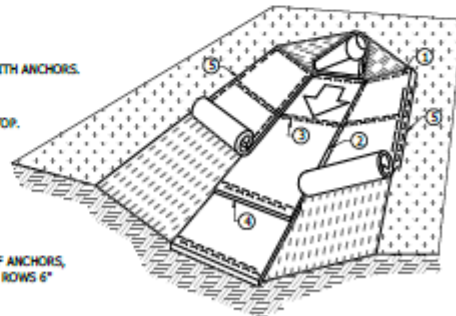
E SILT FENCE

1. PLACE END OF FIRST ROLL IN THE ANCHOR SLOT AT THE CENTER OF THE UPSTREAM CHANNEL AND SECURE WITH ANCHORS.
2. POSITION ADJACENT ROLLS IN THE ANCHOR SLOT, OVERLAPPING ADJACENT ROLLS A MINIMUM OF 12 IN.
3. PLACE BACKFILL IN ANCHOR SLOT AND COMPACT. UNROLL RECP OVER COMPACTED SLOT AND SECURE WITH ANCHORS.
4. UNROLL RECP DOWNSTREAM. MAINTAIN A MINIMUM 12 IN. OVERLAP BETWEEN ADJACENT ROLLS. SECURE EDGE LAP WITH ANCHORS.
5. INSTALL INTERMITTENT STAPLE CHECK SLOTS EVERY 30 FT.
6. CONSTRUCT END LAP AT END OF ROLL AND BEGINNING OF NEW ROLL. OVERLAP ROLL ENDS WITH UPSTREAM RECP ON TOP.
7. EXCAVATE LONGITUDINAL TRENCH ALONG BOTH SIDES OF THE CHANNEL AT THE OUTSIDE EDGES OF INSTALLATION. PLACE OUTER EDGES OF RECP INTO LONGITUDINAL SLOT. INSTALL ANCHORS, PLACE BACKFILL, AND COMPACT.
8. TERMINATE INSTALLATION AT DOWNSTREAM END WITH STAPLE CHECK.
9. INSTALL ANCHORS IN A REGULAR PATTERN OVER ENTIRE AREA COVERED ACCORDING TO MANUFACTURER'S PUBLISHED RECOMMENDATIONS (MINIMUM 3 ANCHORS PER SY).

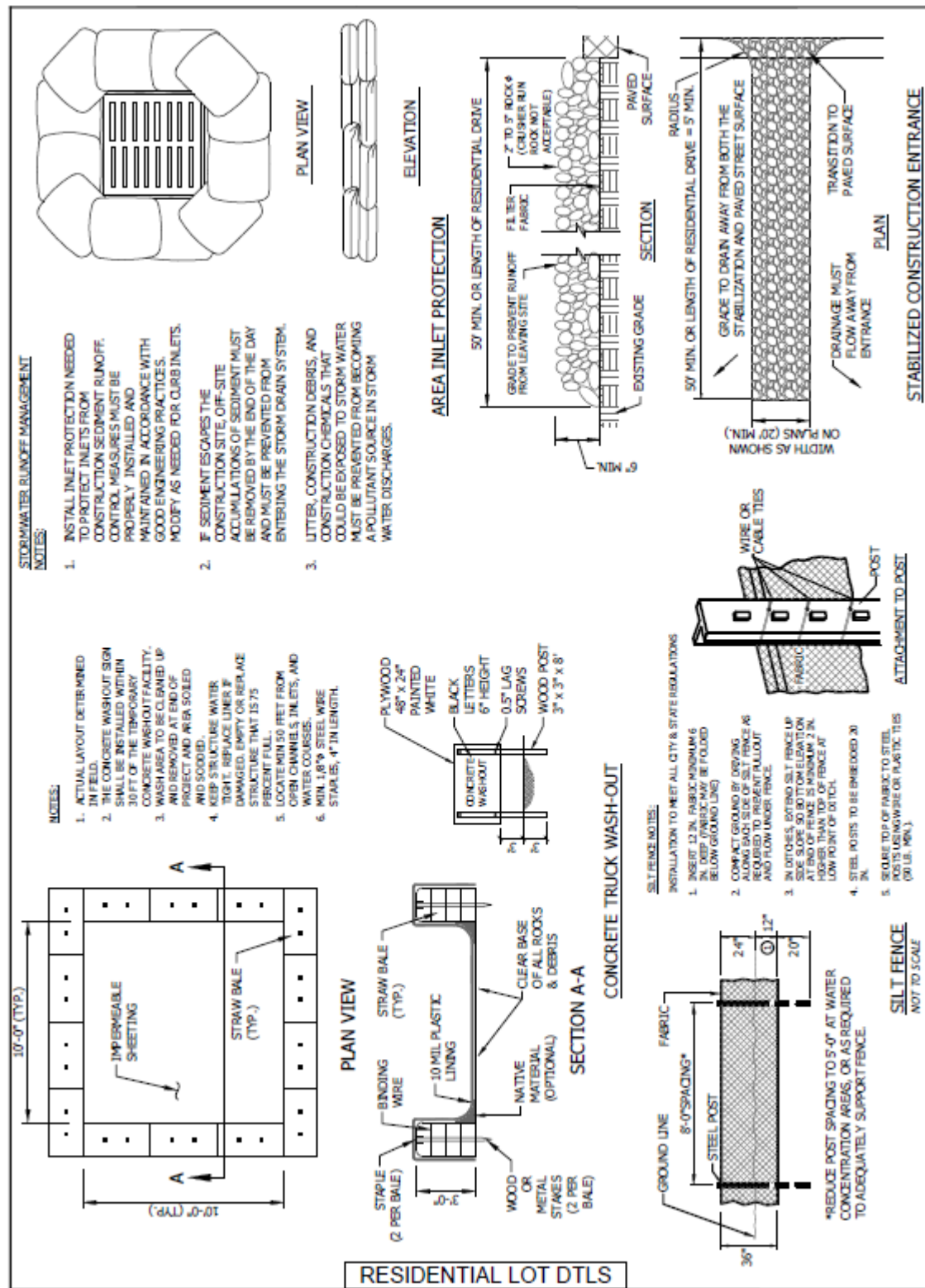
1. ANCHOR SLOT
2. EDGE LAP
3. STAPLE CHECK
4. END LAP
5. LONGITUDINAL SLOT



TRENCH INSTALLATION
N.T.S.



F EROSION CONTROL BLANKETS



Construction Site Stormwater Inspection Report

Project Name: _____

Inspection Date: _____ **Inspected By:** _____

Reason for Inspection: ☐ Begin Project ☐ Rain Event ☐ Monthly ☐ Complaint ☐ Project End (stabilized with 70% veg cover)

OKR10 Onsite Documents: <input type="checkbox"/> Signage Posted <input type="checkbox"/> SWP3 Onsite <input type="checkbox"/> SWP3 Up-to-date (CHECK THESE EVERY TIME) <input type="checkbox"/> Contractor's Inspection & Maintenance Records up-to-date

Construction Entrance Installed: Yes No NA

Comments: _____

Adjacent Pavement Protected and Kept Free of Tracked Dirt and Mud: Yes No NA

Comments: _____

Site free of trash and debris: Yes No NA

Comments: _____

Trash receptacles covered at night and during all rain events: Yes No NA

Comments: _____

Area Stormwater Inlets protected: Yes No NA

Comments: _____

Port-A-Potties anchored and located away from channels, gutters, and inlets: Yes No NA

Comments: _____

Area Ditches and Waterways protected: Yes No NA

Comments: _____

Chemicals & Materials properly stored and protected: Yes No NA

Comments: _____

Perimeter Controls in place: Yes No NA

Comments: _____

BMPs installed properly and functioning properly: Yes No NA

Comments: _____

Concrete Washout Onsite: Yes No NA **If no - discussed?** Yes No NA

Comments: _____

Dust Controlled: Yes No NA **Soil stockpiles:** Yes No NA

Comments: _____

Notes / Actions: ☐ Verbal Instruction ☐ Written Warning ☐ \$500/Day Fine ☐ ODOT Notified
☐ Follow-Up Inspection Needed ☐ Code Sec 1-18(a)

Written Notice of noncompliance with Soil Erosion and Sediment Control requirements.

The work being conducted at _____ address _____ is
hereby notified to come into compliance with the Soil Erosion and Sediment control Measures requirements
within ____ days or by _____. Date inspected _____.

Failure to bring the work into compliance will result in suspension of work and/or fines.

I (name of contractor) _____ hereby acknowledge receipt of this notice.

Contractor Foreman/Supintendent (signature) _____ (date) _____

Inspector (signature) _____ (date) _____



Engineering Services Division

City of Bartlesville
401 S. Johnstone Avenue
Bartlesville, Ok 74003

Stormwater Manager:

918-338-4254

Stormwater Inspector:

918-331-8876

stormwater@cityofbartlesville.org

STOP WORK ORDER

for extended noncompliance with Soil Erosion and Sediment Control Requirements

All work being conducted at _____ (address) on
_____ (project name or description)

must come to an IMMEDIATE AND COMPLETE HALT.

No additional work shall be permitted on any part of the project until:

1. All Stormwater Requirements have been met
2. The Site has been reinspected by City Stormwater Personnel.
3. A Work Continuance Release Form has been signed by the Stormwater Manager and issued to the Contractor.

I (name of contractor) _____ hereby acknowledge receipt of this notice.

Contractor Foreman/Superintendent (signature) _____ (date) _____

Inspector (signature) _____ (date) _____



Engineering Services Division

**City of Bartlesville
401 S. Johnstone Avenue
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WORK CONTINUANCE (RELEASE FORM)

_____ (Project Name or Type),
located at _____ (Project Address / Location),
was inspected by _____ (City Stormwater Inspector)
on _____ (Date of Inspection), and the Project was found to be in compliance with all
construction stormwater regulations. Therefore, upon receipt of this document, signed below by the City
Stormwater Manager, Contractor may immediately resume work on the Project.

ACKNOWLEDGEMENT OF RECEIPT

On behalf of _____ (Contractor Company Name),

I, _____ (Contractor Foreman / Superintendent),

do hereby acknowledge receipt of this notice.

(Signature)

(Date)



APPROVAL:

(City Stormwater Manager)

(Date)

City of Bartlesville
401 S. Johnstone Avenue
Bartlesville, Ok 74003

Stormwater Manager:
918-338-4254

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APPENDIX H: FLOW CHART FOR INVESTIGATIONS OF STORMWATER POLLUTION INCIDENTS

