



105 E. Center Street
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TENTATIVE AGENDA

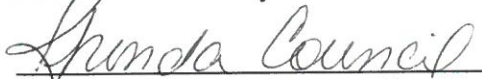
SPECIAL CITY COUNCIL MEETING SIKESTON CITY HALL

Thursday, October 19, 2017
5:00 P.M.

- I. CALL TO ORDER
- II. RECORD OF ATTENDANCE
- III. OPENING PRAYER
- IV. PLEDGE OF ALLEGIANCE
- V. ITEMS OF BUSINESS
 - A. Review of Updated Stormwater Management Program
 - B. 1st & 2nd Reading, Emergency Bill #6072, Authorizing the Mayor to Execute a Contract between the City of Sikeston and the Missouri Highways & Transportation Commission
 - C. Briefing: Scoreboards for High School Softball & Soccer Programs
 - D. Other Items As May Be Determined During the Course of the Meeting
- VI. ADJOURNMENT INTO EXECUTIVE SESSION

Personnel (RSMo 610.021(3))
- VII. ADJOURNMENT

Dated this 17th day of October 2017.


Rhonda Council, Deputy City Clerk

The City of Sikeston complies with ADA guidelines. Notify Rhonda Council at 471-2512 (TDD Available) to notify the City of any reasonable accommodation needed to participate in the City Council's Meeting.

Council Letter

Date of Meeting: 17-10-19

Originating Department: Public Works Department/ Storm Water Management

To the Mayor and City Council:

Subject: Presentation of the City's Storm Water Management Plan

Attachments:

1. City of Sikeston Storm Water Management Plan

Action Options:

1. No action from Council required

Background:

In accordance with State and Federal law, the City is required to obtain an operating permit from the State of Missouri's Department of Natural Resources to discharge its storm water into local waterways and ditches. The City obtained this permit in October of 2016. The permit is in effect until 2021.

The State also requires that the City develop and implement a storm water management plan within one year of receiving its permit. This plan is to be developed with a purpose of reducing pollutants in storm water.

The City's Storm Water Advisory Board met on October 12 and passed the City's new storm water management plan.

The Department of Public Works is presenting the management plan to the Council for their review and consideration.



City of Sikeston, Missouri

Storm Water Management Program

NPDES MS4 Permit MO R040025

Permit Operating Period 2016-2021



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Appendix K	City of Sikeston Facilities Storm Water Pollution Inspection Form



Introduction

1.0 Introduction

1.1 Purpose

The City of Sikeston implements a Storm Water Management Program (SWMP) to protect water quality and effectively reduce pollutants in storm water runoff to the maximum extent practicable. This five-year plan was developed in accordance with the Clean Water Act Phase II requirements outlined in Permit MO-R040025.

This document replaces the SWMP for the permit period of June 13, 2013 through June 12, 2018. It is divided into the six Minimum Control Measures (MCMs) as outlined in Section 4.2 of the City's MS4 Permit. For each MCM, it contains Best Management Practices (BMPs) and measurable goals. Measurable goals are selected to evaluate the effectiveness of individual control measures and the storm water management program as a whole. This plan will be reviewed continually and updated as necessary.

1.2 Background

The City of Sikeston is located in the southern portion of Scott County and northern portion of New Madrid County. Major highways include Interstates 55 and 57, along with US Highway 61 and US Highway 60. Burlington Northern Railroad has a rail service through the City. The City is also served by the Sikeston Memorial Airport. According to the 2010 census, Sikeston has a population of 16,318 citizens.

The City of Sikeston is located at Lat. 36 degrees 52'39.43" N and Lon. 89 degrees 35'21.46" W. Sikeston has a total area of 17.48 square miles, of which 17.32 square miles is land and 0.16 square miles is water. The City is situated upon the Sikeston Ridge which runs north and south from 10 miles north of Sikeston south to New Madrid. Prior to 1927, the New Madrid-Sikeston Ridge Levee was constructed to protect the area from flooding from the Mississippi River. In the 1920s, the Little River Drainage District was formed to drain the low land area west of the Sikeston Ridge.

The City of Sikeston owns and operates a small Municipal Separate Storm Sewer System (MS4). The system consists of over 2,400 storm water drains, over a hundred miles of pipe, 6 City owned basins and 14 privately owned basins.

Sikeston was the first community in the region to develop a Storm Water Management Plan and Ordinance which was adopted in 1983. In 2008, the city became regulated under the National Pollutant Discharge Elimination System (NPDES) StormWater Phase II Rule. In 2010 an updated ordinance, compliant with current StormWater regulations was adopted.

Since becoming regulated, the City has spent a substantial amount of time educating the public through internet resources, web pages, newspaper articles, social media and brochures. Sikeston has organized public involvement through programs such as Adopt a Road, public access to the City's compost site, leaf collection programs and bulk trash collections. The City has also formed a Storm Water Advisory Board that meets regularly and invites the public. New ordinances addressing illicit discharges have been adopted by the City recently, as well as a detailed GIS map, and a Storm Water pollution hotline for citizens to report pollution concerns. The City has ordinances in place for construction zone runoff, as well as detailed and comprehensive inspections. City employees as well as area engineers are continually searching and developing new post construction storm water management plans. And lastly, the City continually educates their employees on good housekeeping practices and preventing pollution. Sikeston's Street Department maintains over 130 miles of roadway through street sweeping and maintenance of storm pipe.

1.3 Climate and Hydrology

Sikeston's climate is thought to be moderate, but can become erratic at times. Temperatures range on average in the winter from a low of 27 degrees F to a high of 92 degrees F in the summer, with an average of 59.3 F overall through the year. The City's annual rainfall is 49.32 inches per year, with the higher totals in May and the lowest in September. The City averages about 3 inches of snowfall per year.

The City of Sikeston is located within two watershed districts. The watersheds are split predominately by US Highway 61 (Business 61/ Kings Highway through the center of the City). The Saint John's Bayou watershed is located on the east side of the City while the Richland Drainage District is on the west. The City's two major outfalls that are covered by permit MO R040025 are Saint John's Ditch

located on the east side of the City, and the Richland Drainage District Ditch #4 which is located on the west side of the City. The City of Sikeston has over 47 miles of major and roadside ditches, including two lateral's that flow to Saint John's Ditch.

1.4 Sikeston`s Major Ditches

Richland Drainage District Ditch # 4	7.4 Miles
Saint John`s Ditch	3.7 Miles
Saint John`s Ditch Lateral B	0.8 Miles
Saint John`s Ditch Lateral C	1.8 Miles

2.0 Water Quality

2.1 Water Quality

Saint John`s Ditch is listed on the 2015 E.P.A approved 303 (d) List of Impaired waters for E. coli bacteria. The affected area is approximately 5 miles south of Sikeston city limits and extends 15.3 miles south through New Madrid County. According to the Missouri Department of Natural Resources, Saint John's Ditch was listed as an impaired water body due to bacteria from rural nonpoint sources and urban runoff/ storm sewers. Saint John`s Ditch is also listed as impaired due to mercury caused by atmospheric deposition. To date, Whole Body Contact Recreation Category B use is impaired. Warm Water Habitat, Secondary Contact Recreation, Irrigation, and Livestock and Wildlife Protection are still designated uses for Saint John`s Ditch. There is little water quality data for the areas south of Sikeston`s city limits. In accordance with Section 303(d) of the Clean Water Act, once a waterbody is listed, a Total Maximum Daily Load (TMDL) must be developed to set the maximum amount of pollution that can enter the stream and still maintain water quality standards. To date, a TMDL has not been developed for Saint John's Ditch.



Special Conditions

3.0 Special Conditions

3.1 Special Conditions

There are storm water discharges from Sikeston's MS4 system that discharge into Saint John's Ditch. Although Saint John's Ditch is listed on the 303 (d) list of impaired waters, the affected areas are not at this time within Sikeston's city limits. Storm water discharges from Sikeston's MS4 have not yet been determined to contribute to the impairments. See Appendix A for a copy of the 2015 EPA Approved 303(d) List and Total Maximum Daily Load Information Sheet for Saint John's Ditch.



Storm Water Management Plan

4.0 Storm Water Management Plan document

4.1 This storm water management plan includes information detailing the six minimum control measures (MCM's) set forth in the NPDES MS4 permit number MO RO40025.

4.1.1 Developed Best Management Plans (BMP's) will be listed within each Minimum Control Measure (MCM) containing a description, purpose and expected result.

4.1.1.1 Measureable goals will be listed in Appendix B and they will reflect interim and completion milestones. Each measurable goal will state the appropriateness of BMP's and the progress towards the expected results.

4.1.1.2 Jay Lancaster, Sikeston's Director of Public Works, is primarily responsible for Sikeston's Storm Water Management Program.

4.1.1.3 Darren Martin, Sikeston's Storm Water Coordinator, is responsible for implementing Sikeston's Storm Water Management Program and coordinating all minimum control measures.

4.1.1.4 Collin Cecil, Sikeston's Senior Building Official, is responsible for the minimum control measures of Construction Site Runoff and Post Construction Site Runoff.

4.1.1.5 Sikeston's Public Works Department is the primary Department for implementing the majority of Sikeston's Storm Water Management Program.

4.1.1.6 BMP's will be continually evaluated for effectiveness and will be subject to replacement and modification. Ineffective BMP's will be replaced with effective BMP's.

4.1.2 The City of Sikeston, along with volunteers and the public, will make every effort to fully implement each MCM in accordance with this SWMP.

- 4.1.2.1** The SWMP will continually be reviewed by city staff with public input. The SWMP will be revised when improvements are deemed necessary and be submitted to MODNR's Water Protection Program's MS4 Coordinator for review.



Public Education & Outreach

4.2 Minimum Control Measures

4.2.1 Public Education and Outreach Minimum Control Measure

4.2.1.1 The City of Sikeston believes that educating the public is an essential part of incorporating changes in storm water management into a permanent practice. It is planned to continue the education effort through City resources and stay on task with help from volunteer organizations. The City's Public Education Outreach Program uses multiple strategies to inform the public about common storm water pollutants, their effects on receiving waters, and corrective actions the public can take to prevent non-point source (NPS) pollution. Sikeston's outreach program relies on a variety of methods to reach various groups. The City will continue to investigate outreach programs being used or developed by other local, state, or federal entities. The City will also continue to primarily use existing storm water educational resources created internally or provided by neighboring MS4 communities, the Department of Natural Resources, the Department of Conservation, and the EPA.

4.2.1.1.1 Sikeston's Public Education and Outreach Program is designed to reach at least 14,000 people this permit term. Target audiences include the general public, businesses, industries, and students. Target pollutant sources include household activities such as the improper disposal of lawn chemicals, yard waste, household hazardous waste, pet waste and used auto fluids; construction activities such as improper erosion or sediment control; illegal dumping and littering. The target audience groups were selected for their ability to prevent or improve storm water impacts, and because the City has successfully established modes of

communication for reaching these audiences such as newsletters, websites and social media outlets.

4.2.1.1.2 The City plans to use its Best Management Practices and Measurable Goals to inform residents and businesses on steps to reduce storm water pollution. This SWMP will continue to build and expand on past successful BMP's. These strategies rely on a broad range of methods to reach target audiences. The Public Education plan to inform individuals and businesses on storm water pollution can be found below and in the Public Education and Participation BMP's and Measurable Goals which can be located in Appendix B.

4.2.1.1.3 Sikeston's SWMP includes multiple resources to inform individuals and groups on how to become involved with storm water management activities. The City continuously advertises its Adopt-A Road program along with other programs such as free tire, rubbish and compost disposal. The City hopes to create a dialogue with private and public area schools within the next reporting period to help promote Public Education and Outreach. *MCM 2*

4.2.1.1.4 The City's outreach program plans to reach target audiences by the following mechanisms.

A) Storm Water Management Web services- The City of Sikeston operates a web page found at www.sikeston.org that provides easy access to storm water issues. Topics on the website include information on how to report pollution using Sikeston's new Storm Water pollution hotline, the need for storm water quality, standards and guidelines for storm water quality, and information on how to help prevent storm water pollution. The web page provides links to help visitors locate brochures on storm water pollution, land clearance applications and guidelines, city ordinances on

storm water and MODNR MS4 guidelines and regulations. The webpage also provides information on how to volunteer and become involved with organizations and groups that conduct storm water pollution prevention events. The City also provides an informative email newsletter called the Sikeston Scanner that regularly has articles on storm water pollution. *MCM 2,3,4,5*

- B)** Storm Water Management Social Media services-
The City has established accounts with social media services such as Facebook and Twitter. Storm water issues are often reported on these services. These services have proven a resourceful tool in the Public Education MCM. Citizens are informed instantly on storm water topics, and the service provides a feedback tool to the city. The services also provide a quantitative number for determining the effectiveness of the MCM. *MCM 2,3,4,5*
- C)** Storm Water brochures and factsheets- Sikeston has published brochures that deal with storm water pollution. The pamphlets have been mailed with citizens utility bills, distributed with land disturbance permits, and are made available at different City facilities. The pamphlet contains information on lawn and garden maintenance, trash and litter, hazardous waste and solvents, swimming pool care, pet waste management, vehicle maintenance, and construction site runoff. The City has also developed fliers on the importance of storm water pollution concerning the deposit of yard waste in City's streets and roadways. City personnel distribute these fliers on a need to basis when violations are observed. *MCM 2,3,4,5*

- D) Storm Water Newspaper articles- The City utilizes the local newspaper publication whenever possible to help inform the citizens of Sikeston to storm water pollution problems. Articles are often wrote and published with Public Education as the intention. This BMP also provides quantitative number for determining the effectiveness of the MCM. *MCM 2,3,4,5*

4.2.1.1.5 The BMP's and milestones set forth in this SWMP for the Public Education and Participation MCM are designed to inform residents, contractors, and businesses on pollutant sources such as lawn and garden maintenance, trash and litter, hazardous waste and solvents, swimming pool care, pet waste management, vehicle maintenance, and construction site runoff. The programs intention is to also provide training and voluntary services to help prevent pollution and to provide insight to evaluate long-term success with the public education and outreach program.



Public Involvement & Participation

4.2.2 Public Involvement and Participation Minimum Control Measure

4.2.2.1 A great deal of Public Participation and Involvement has been generated by the City in the past through their Public Education and Outreach programs noted previously. The City will continue to build upon the success of these BMP's, as well as continue to invest in new and improved measureable goals. In the past, the City has welcomed public input in regards to its SWMP, along with other related programs and regulations. Public involvement continues to be sought by the City in regards to its programs, events, and public meetings.

4.2.2.1.1 Every effort will be made to make notice to the public in regards to the renewing of Sikeston's SWMP, including the resources at the City's disposal mentioned prior. The City accepts the recommendation of at least ten business days for public review before the submission of this SWMP to the Missouri Department of Natural Resources.

4.2.2.1.2 Prior to submitting the new SWMP for renewal, the plan will be reviewed by Sikeston's Storm Water Advisory Board for approval. The new SWMP will then be presented to Sikeston's City Council for advisement and approval. Both the Storm Water Advisory Board meeting and Council meetings are open to the public with ample notice given to the public. The City will advertise these meetings through its resources. These include email, social media outlets, newspaper articles and notices posted at public buildings.

4.2.2.1.3 The City strives to achieve demographic representation and continue community involvement in SWMP development and implementation. The BMPs selected will address the viewpoints and concerns of a variety of audiences and stakeholder groups. The Best Management

Practices listed have been selected with regard to: water quality needs, reaching a wide range of target audiences including residents, educators, businesses, developers and other specific industries; taking advantage of related events and resident interest; and to build on existing and developing programs and partnerships. BMPs and measurable goals for Public Involvement & Participation have been selected based on the City's existing and developing partnerships and programs, observations of target audience interest and engagement, successes from the previous permit cycle, and projected resources and funding. The decision process has evolved with discussions among the Storm Water Advisory Committee, volunteer program participants, City staff, and target stakeholder groups.

4.2.2.1.4 The City's Storm Water Advisory Board (SWAB) is the entity that takes the lead in on matters relating to storm water. The primary tasks of the SWAB are to advise the City Council on the on-going efforts to establish goals, adopt and implement required control measures. The SWAB roster currently includes appointees that are City of Sikeston employees, the Board of Municipal Utilities, City Council members and local civil engineers. It is a measureable goal within the SWAB to change the membership to have more private citizen involvement. The goal would strive to have the SWAB represent a cross-section of all stakeholders impacted by storm water management. This would include members from the agriculture vocations, construction vocations plus land developers, funding groups, realtors and businesses.

4.2.2.1.5 The City provides appropriate opportunities for monitoring and cleaning up area ditches, streams and lakes as well as cleanup activities for local citizens and organizations to participate in.

- A)** City of Sikeston Stream Team # 5165- Recently, the City has adopted a portion of the Saint John's Ditch through the Missouri Department of Conservation Stream Team program. Public Involvement and Participation BMP's and Measurable goals include involving local youth groups, organizations and other volunteer groups with cleanup activities and assisting with introductory level water quality monitoring. This program will serve to help educate and target audiences for involvement and Public Education & Outreach. *MCM 1, 3, 6*
- B)** City of Sikeston's Adopt-A-Road Program- Sikeston offers and encourages groups to participate in the City's Adopt-A-Road program. This program is advertised often on the City's website, social media sources, email and newspaper articles. As of date, many miles of roadway have been adopted by citizen groups, school clubs, youth organizations, social clubs, and church groups. There is a portion of adopted roadways that have parallel ditches that also benefit from these organized cleanup events. *MCM 1, 3, 6*
- C)** City of Sikeston's Curbside Pickup Program- The City of Sikeston offers several opportunities a year to residents for disposal of bulky rubbish. The City's contractual agreement with local sanitary services provides residents with 4 opportunities per year for curbside pickup of bulky rubbish. Once per year, residents also have the opportunity to bring trash and bulky items to the City's compost site to be properly disposed of. It is believed these programs help keep our City and its roadways and ditches clean. *MCM 1, 3, 6*
- D)** The City of Sikeston's Leaf Collection Program- The City promotes clean gutters, roadside ditches and

drains by offering its citizens with free leave collection programs. Residents and contractors are allowed access on a daily basis to the City's compost site to dispose of leaves in the fall along with curbside pickup by City personnel. This program allows the City to educate the public on storm water pollution prevention. *MCM 1, 3, 6*

E) The City of Sikeston's Compost Program- Sikeston residents are given access twice per month to its City Compost site to dispose of leaves, grass, compost, and limbs. Recently the Compost site began excepting tires from residents. It's believed this will help eliminate polluters from illegally dumping compost material and tires in area ditches. *MCM 1, 3, 6*

F) The City of Sikeston's Storm Water Hotline- The City recently established a new hotline for storm water pollution reporting. Citizens may now call a dedicated phone number that will put them in contact with appropriate personnel. Examples of concerns addressed include illegal dumping, storm sewer blockages, construction site issues, and erosion. The storm water hotline is advertised on the City's website and social media services. *MCM 1, 3, 4, 6*

4.2.2.1.6 The City of Sikeston believes it is on track with its Public Involvement and Participation program. There are many organizations within the City that participate and volunteer in the programs the City has created. These programs provide both quantitative and qualitative indication of the effectiveness of the Public Involvement and Participation program. These programs also provide ample opportunities for the City to educate volunteers on storm water pollution Best Management Practices.



Illicit Discharge Detection & Elimination

4.2.3 Illicit Discharge Detection and Elimination Minimum Control Measure

4.2.3.1 An illicit discharge is any discharge, intentional or otherwise, that is not a resultant of rainfall or is not otherwise specifically permitted. It is the responsibility of the City to make every effort to identify and eliminate illicit discharge.

4.2.3.1.1 In 2011, the City partnered with Midland Integrity GIS to develop a detailed map of the City's storm water sewer system. City staff along with Midland Integrity GIS personnel conducted many months of field surveys to identify outfall locations and points of interest. A great deal of effort and time went into completing the map. The map was developed showing all outfalls along with detailed names and locations of receiving waters. The City of Sikeston retains full editing rights to this map and is updated on a regular basis when required. Examples of editing the map include when new infrastructure is added or updated, and when discrepancies are found dealing with maintenance or illicit detection inspections. Map information dealing with the MS4 system is always available to interested parties when requested.

4.2.3.1.2 See Appendix D for the City of Sikeston's Illicit Discharge and Elimination ordinance.

4.2.3.1.3 Illicit discharge detection and elimination continues to be addressed through a variety of BMPs as described below and in Appendix B. BMPs have been selected based on national and state regulations along with discussions with City staff, neighboring MS4s communities, guidance from MO Department of Natural Resources and EPA resources.

A) Storm Water Pollution Control Ordinance- this regulatory mechanism directly prohibits illicit

discharges into municipal separate storm sewers. It includes procedures for inspection, monitoring, abatement, and enforcement measures in addition to remediation cost recovery. This BMP is a regulatory requirement; ordinance language was selected from national models.

- B)** Illicit Discharge Detection & Enforcement- the City will conduct visual field screenings of all major outfalls and industrial/commercial properties. In addition, potential illicit discharges may be reported through: volunteer programs and the concern hotline. The storm water website offers information on what an illicit discharge looks like and reporting procedures. Inspections are conducted on a regular basis with staff discussion and with input from concerned residents. *MCMs 1, 2, 4, 5, and 6*

4.2.3.1.4 Dry weather screening continues to be a part of the City's overall plan to detect illicit discharge sources. The plan also addresses on-site sewage disposal systems that flow into the City's storm drainage system.

- A)** The City conducts on a regular basis dry weather screening and inspections on all outfalls, through ditch mowing and inspection. City employees are trained continually on how to detect illicit discharges and to monitor for illicit connections. Sikeston's Street Dept. continually monitors point source inspections routinely and randomly while maintaining the City's storm water system. *MCM 6*
- B)** The Board of Municipal Utilities makes annual inspections of the industries in Sikeston for illicit discharges as part of their E.P.A. Pretreatment Program duties. *MCM 6*

4.2.3.1.5 Procedures are in place for locating priority areas with higher likelihood of illicit connections.

- A)** During dry-weather field screening of representative and major outfalls, priority will be given for residential and commercial areas with older sanitary lines and/or known safety/health compliance issues. Additional information to locate priority areas can also be provided by the Storm Water Pollution hotline. Once an illicit discharge is located, that area will become a priority area for additional screening by the City. *MCM 2, 6*
- B)** Areas of priority are easily identified by the use of the City's GIS mapping system. The system is easily edited and updated to identify high priority sites. A data base is created then to identify areas for scrutiny and inspection. *MCM 6*
- C)** City employees, businesses, and the public are informed of the hazards associated with illegal discharges and improper disposal of waste through the storm water website, brochures/fact sheets, school educational programs, and through targeted training. *MCM 1,2,6*

4.2.3.1.6 Once an illicit discharge is detected, City personnel will use available resources to trace the discharge back to its source. Resources include attempting to identify the pollutant through physical and chemical characteristics, drawing from a database of potential pollution causing industries, and through the City's GIS system. City staff may also use techniques such as smoke tests and remote camera's.

4.2.3.1.7 Procedures for eliminating illicit discharges.

- A)** Under SECTION 14 of Sikeston's Illicit Discharge and Detection Ordinance, the City may require that a person responsible for an illegal discharge immediately discontinue and discharge and, if necessary, take measures to eliminate the source of the discharge to prevent the occurrence of future illegal discharges.

- B)** SECTION 17 of Sikeston's Illicit Discharge and Detection Ordinance states that whenever the City identifies a discharge of pollutants, the City may require the owner of the property and/ or the responsible person be remediated and the affected property restored within a specified time.
- C)** SECTION 19 of Sikeston's Illicit Discharge and Detection Ordinance states that any person responsible for a facility or operation who has information of any known or suspected release of materials which results in illegal discharges shall take any necessary steps to discovery, contain, and cleanup of such release.

4.2.3.1.8 Under SECTION 14 of Sikeston's Illicit Discharge and Detection Ordinance, the City may order compliance to the responsible person without limitation:

- A)** The performance of monitoring, analysis, and reporting;
- B)** The elimination of illicit connections or discharges;
- C)** That violating discharges, practices, or operations shall cease and desist;
- D)** The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property;
- E)** Payment of a fine to cover administration and remediation costs and;
- F)** The implementation of source or treatment BMP's.

4.2.3.1.9 The Best Management Practices set forth in this SWMP will serve both as a quantitative and qualitative indication of the effectiveness of this minimum control measure. The minimum control measure of Illicit Detection and Elimination coordinates with all other minimum control measures through public education, public involvement, construction site runoff bmp's, post construction bmp's, and public employee training. *MCM 1, 2, 4, 5, 6*

- A)** The public is continually informed of illicit discharges and pollution through the resources of the community including social media, electronic mail, local newspapers, door hangers, and pamphlets. *MCM 1, 2, 4, 5*
- B)** The City aggressively seeks assistance for pollution and illicit detection from residents, businesses, industries, organizations and volunteers through its programs such as adoption of roadways and ditches, used tire and compost collection programs, and with its Storm Water Pollution hotline. *MCM 1, 2, 4, 5*
- C)** City ordinances are in place to deal with construction site runoff and post construction site runoff aggressively. Inspections are conducted regularly at construction sites and are documented very well. City Code Officers are continually trained to identify illicit discharges at construction sites. *MCM 4, 5, 6*
- D)** City employees are routinely trained and reminded to be vigilant in detecting illicit discharges. Ordinances along with this SWMP allow city employees to aggressively detect illicit discharges and provide them with many resources for the elimination of the illicit discharges. Employees continually become involved with local organizations and volunteers in community cleanup projects and with road and ditch adoption programs. *MCM 1, 2, 4, 5, 6*

4.2.3.1.10 The City of Sikeston has not identified any listed categories of non-storm water discharge as significant contributors of pollutants to the MS4. Should any of the listed categories or other occasional non-storm water discharges be found to contribute significant pollutants, action will be initiated to effectively prohibit or control such discharges using existing ordinance provisions and enforcement actions.

- A)** Residential and charity car washes have not been found to be a significant contributor of illicit discharge to the City's MS4. Under the existing program, any incidental non-storm water discharge that becomes a source of significant pollutants, appropriate local controls or conditions will be placed on such discharges.
- B)** The City has not identified unchlorinated swimming pool and spa water as significant sources of pollution. However, the City does encourage residents to use other methods of disposal such as draining to a sanitary drain and ground filtering.
- C)** All other sources of non-storm water discharges and flows that are detected are still investigated to determine if these sources are authorized under SECTION 1.2.2.2 of permit MO RO40025.



Construction Site Storm Water Runoff Control

4.2.4 Construction Site Storm Water Runoff Minimum Control Measure

4.2.4.1 The target audience for the Minimum Control Measure of Construction Site Storm Water Runoff Control includes developers, contractors, and the City of Sikeston. As the City of Sikeston experiences development, the targeted pollutants include sediment, litter, concrete truck washout, sanitary waste, and hazardous materials from construction sites. Best Management Practices for this MCM are listed in Appendix C. The decision process to use the mechanisms described in the ordinances involved continuity with existing programs, discussions with City departments, and state and federal guidelines. The measurable goals were selected to provide both quantitative and qualitative indication of the effectiveness of the Construction Site Storm Water Runoff Control program and to make efficient use of existing procedures.

4.2.4.1.1 The City of Sikeston has regulatory mechanism's in place that implement erosion and sediment control BMP's at construction sites as well as sanctions designed to ensure compliance.

- A)** SECTION 13.08.410 (700.060) (a)(1)(e) of Sikeston Ordinance # 5816 provides the regulatory mechanism for City personnel to require erosion and sediment control at construction sites within the City of Sikeston. The ordinance also provides sanctions designed to ensure compliance.
- B)** Straw bale barriers, silt fences or similar erosion control features must be provided during construction to control the transport of silt from the site and into the public streets or storm water system.

- C) Seeding and mulching or sodding of earthen improvements must be made as soon as possible after completion of the improvements.
- D) Prior to acceptance by the City all features must be free of sediment and a sufficient stand of grass or other protective measures must be established to retard erosion and control the transport of sediment.
- E) If the Developer fails to provide adequate maintenance and the facilities become inoperative or ineffective, the City of Sikeston may perform remedial work at the Developer's expense. *MCM 3, 5, 6*
- F) City ordinances were amended in 2010 to reflect an improved and more aggressive mechanism for storm water runoff control at construction sites. City of Sikeston Ordinance #5816, Chapter 700. Article 1 dealing with Construction Site Storm Water Runoff Control can be found in Appendix C of this SWMP.

4.2.4.1.2 City Ordinance # 5816, Section 700.070. Construction Site Runoff Control, contains multiple provisions and BMP's that govern the control of construction site runoff. The ordinance covers BMP's that control physical silt control measures, physical tracking control, establishment of turf, constructions practice BMP's, spill prevention BMP's, solid waste BMP's and maintenance and inspection of BMP's.

4.2.4.1.3 Per Section 700.090. Permit-Application Contents of Ordinance # 5816, applicants proposing to make any material change in the use or appearance of any structure or land shall apply for a permit from the Planning/Code Enforcement office of the City of Sikeston. The application shall contain the following elements:

- A) A location map.
- B) A statement expressing the intent and scope of the project.
- C) A topographic map of the site before and after the proposed project.

- D)** General vegetation maps of the site before and after the proposed alteration.
- E)** The construction plans, specifications, and computations necessary to indicate compliance with the requirements of the ordinance.
- F)** The City's ordinance allows 45 days for City staff to review, approve, approve to conditions, or reject the proposed plans.

4.2.4.1.4 The public is encouraged through this SWMP's minimum control measures Public Education and Outreach and Public Involvement and Participation programs to receive and provide feedback on matters of construction site runoff prevention. *MCM 1, 2, 3*

- A)** The public as well as contractors and developers are invited to attend scheduled SWAB meetings. *MCM 1, 2*
- B)** A Pollution Prevention Hotline has been developed to provide citizens with a tool to report pollution problems including construction site pollution. *MCM 1, 2, 3*
- C)** Sikeston uses its resources, including electronic mail publications, social media, local newspapers, door hangers and pamphlets to inform citizens on pollution causing practices such as construction site runoff. These resources also provide a means for feedback from affected stakeholders. *MCM 1*

4.2.4.1.5 Section 700.120. Plan Adherence of Sikeston's Ordinance #5816 expresses after an applicant's permit is approved and issued, the applicant is required to adhere strictly to the storm water management plan and follow all construction site runoff BMP's. The City shall then be granted inspection rights and right of entry in order to insure compliance with the requirements of the ordinance.

4.2.4.1.5.1 City Code Enforcement personnel routinely inspect construction work sites for other building codes

issues. During these inspections, Code Enforcement Officers are trained and required to inspect Construction Site BMP's for storm water control. Code Enforcement officer's document these inspections on a storm water BMP inspection form that provides documentation. This report also provides a mechanism for inspectors to identify what the site's future inspection priority is. This inspection form is listed in Appendix I. *MCM 3, 5, 6*

- 4.2.4.1.6** The City's ordinances are designed to ensure compliance with its erosion and sediment control regulatory mechanisms and procedures for when certain sanctions will be used for noncompliance.
- A)** Sikeston's Storm Water Ordinance #5816 is designed to ensure compliance with affected stakeholders in the Construction Site Runoff Control MCM. The ordinance mandates Plan Adherence Section 700.120, Enforcement Section 700.130, Variance Procedures Section 700.140, and Violations and Penalties Sections 700.190.
 - B)** The Plan Adherence Section states the applicant shall adhere strictly to the storm water management plan and construction site runoff controls.
 - C)** Section 700.130 allows provisions to the City if in the City determine the project is not being carried out in accordance with the approved storm water plan. The ordinance allows the City to issue written notice to the applicant specifying the nature of the violation and to issue a stop work order if the violation is not corrected within a specified time frame.
 - D)** Ordinance 700.190 Violation-Penalty Section addresses any person, who violates any Article of Ordinance #5816 or fails to comply with any of the requirements shall be punished by a fine not to exceed \$500.00 or by imprisonment for a period

not to exceed 60 days. Each day upon which such violation shall continue shall constitute a separate offense hereunder.



Post Construction Storm Water Management

4.2.5 Post-Construction Storm Water Management in New Development and Redevelopment Minimum Control Measure

4.2.5.1 The City of Sikeston will continue to implement and build on the Post-Construction Storm Water Management Minimum Control Measure that combines structural and non-structural strategies and regulatory mechanisms to address post-construction runoff from development projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale. The Best Management Practices (BMPs) and measurable goals described below have all been selected based on regional, state, and national regulations, and local water quality needs. The decision process involved an evaluation of existing City codes, discussions with City departments, and public hearings.

4.2.5.1.1 As part of its SWMP, in 2010 Sikeston passed Ordinance #5816, which provides the regulatory mechanism to address post-construction runoff from new development and redevelopment projects. The ordinance addresses post-construction runoff including, Performance Standards Section 700.050, Design Criteria Section 700.060 and Post-Construction and Maintenance Section 700.080.

4.2.5.1.2 Sikeston's Ordinance #5816, Section 700.080 ensures adequate long-term operation and maintenance between the City and post-development landowners. The following provisions govern the long-term operation and maintenance of privately-owned drainage facilities including detention and retention basins.

A) If responsibility for post-construction operation and maintenance is to be transferred to the individual private owners in a subdivision, the

Developer shall assure perpetual maintenance of the drainage facilities through the adoption of maintenance agreements and covenants to be noted on and recorded with the subdivision plat and referenced on the deeds for any such facilities.

- B)** Operation and maintenance responsibilities for storm water detention and retention structures including flow attenuation devices shall remain with the legal owner of the site of the subject improvements. Typical operation and maintenance activities include the following: Period inspections for defects affecting performance, removal of accumulated silt and debris, and mowing and turf maintenance.
- C)** If the owner of the site for storm water detention and retention structures including flow attenuation devices fails to provide adequate operation and maintenance and the facilities become inoperative or ineffective or become a nuisance, the City of Sikeston may perform remedial work at the Developer's expense.
- D)** In its efforts to lead by example, the City implements a rigorous long-term operation and maintenance program on its 6 owned retention and detention basins. Efforts include inspections, silt removal, landscape and turf maintenance and necessary repairs. *MCM 3, 6*

4.2.5.1.3

The City of Sikeston has strategies to minimize quality impacts that include structural and non-structural best management practices. The goal of these strategies is to protect sensitive areas, minimize storm water pollution and utilize best management practices that will effectively remove storm water pollution in a method that is appropriate for the City.

- A)** Per Sikeston's Ordinance #5816 Section 700.050 Performance Standards, storm water management control standards shall meet performance standards and requirements.
- B)** The surface runoff from the developed site shall approximate the hydrograph, in terms of peak flow, for a two-year frequency storm for the undeveloped, natural site. In addition the shape

and timing of the outflow hydrograph on downstream flow and water quality conditions shall be assessed.

- C)** Historical rates and volumes of storm water runoff, whether discharged into natural drainage corridors or artificial drainage systems, shall meet existing water quality standards at the point of discharge. Discharge points shall be designed to prevent erosive velocities.
- D)** Runoff computations shall be based on the most critical situation (rainfall duration and distribution) and conform to acceptable engineering practices using rainfall data and other local information applicable to the affected area.
- E)** Retention or detention structures and attenuation devices in subdivision projects shall be on private property, except where it is determined, through the subdivision review process, that there will be a public benefit and that specific public benefit is desirable in the proposed location. Maintenance responsibility shall remain with the property owner on which the structure is located.
- F)** To determine the desirability and feasibility of public ownership and public maintenance of a retention or detention structure and attenuation devices the following items shall be considered in, but not limited to, the following evaluations: Size of the development project, Type of retention or detention facility, multiple uses of the area, maintenance costs involved, effective of storm water control, and relationship to the overall development.
- G)** Per Sikeston's Ordinance #5816 Section 700.060 Design Criteria, Post- Construction management control standards are to be applied in the design and development of storm water drainage facilities:
 - AA)** Design Frequency. Ten-year frequency rainfall amounts from technical papers published by the U. S. Weather Bureau shall be used to determine the discharges for the design of storm sewers, inlet capacities and such appurtenances.
 - BB)** Hydrologic Design. Hydrologic designs and summary runoff computations shall be prepared by

a professional engineer registered in the State of Missouri, and must be made using the Rational Method (with “C” factors based upon percent of impervious site area from the tabulation in this paragraph), Soil Conservation Service Technical Release 55 (TR-55) or other technical method acceptable to the City. If other methods than the two noted herein are proposed then approval must be obtained from the City.

<u>%Impervious</u>	<u>Rational C Factor</u>
05	0.37
10	0.39
20	0.44
30	0.48
40	0.52
50	0.56
60	0.60
70	0.64
80	0.68
90	0.73
100	0.77

CC) Hydraulic Design. Hydraulic computations for pipes and ditches shall use open channel, pressurized pipe, culvert, orifice and weir equations and coefficients generally accepted by the civil engineering community. The project engineer shall clearly document the sources used for hydraulic design.

DD) Conveyance on Streets. The 10-year storm flow shall be allowed to be conveyed on all streets to a depth of 2 inches above the roadway centerline, but in no case shall the storm water extend either to more than 14 feet beyond the edge of pavement or back of curb or outside the street right-of-way.

EE) When Required. Detention or retention systems will be required for development sites from which the post-development 10-year discharge would exceed the 10-year pre-development discharge and where the existing downstream drainage facilities have inadequate capacity to accept the additional post-development

discharge from the site. Design computations will be required to demonstrate that no detention is required. Developments without detention or retention must be individually approved by the City Manager or his designee.

FF) Detention Design Frequency. Detention basins shall be designed to receive the 10-year post-development discharge and limit the maximum discharge from the site to the two-year pre-development discharge. Computations must be provided for the basin volume and for the performance of the control structure.

GG) Detention Volume for Sites of 20 Acres or Less. For sites of 20 acres or less the volumes for detention basins shall be determined by either a routing of the 10-year hydrograph through the basin and control structure by an acceptable computer-based hydraulic routing program or by providing a volume equivalent to provided 1800 seconds of storage of the difference between the 10-year peak post-development discharge and the two-year peak predevelopment discharge.

HH) Detention Volume for Sites of over 20 Acres. For sites of over 20 acres the volumes for detention basins must be determined by routing the 10-year hydrograph through the basin and control structure with an acceptable computer-based hydraulic routing program.

II) Retention Basin Design. Storm water retention basins or hybrid detention/ retention basins may be used to take advantage of soil infiltration to reduce the peak rate of discharge. Discharge from such basins shall not exceed the 2-year pre-development flow. Design seepage rates shall not be more than 10 percent of that observed by onsite percolation tests or indicated by soil report data. The total volume of no-discharge retention-only basins shall not be less than that required to contain the total volume of runoff from an 8.5-inch rainfall event as indicated by Table 2-1 of TR-55.

JJ) Forms of Detention and Retention. Detention and retention basins may be provided in the following forms: Drain-dry earthen basins with

maximum 4:1 side slopes, concrete lined low-flow channels and a 1-foot minimum freeboard, Permanent ponds with maximum 4:1 side slopes, minimum permanent water depth of 3 feet and 2-foot minimum freeboard, underground piping and basins with provisions for silt control and removal, and parking lots to a maximum depth of 12 inches. The above list of design options is not intended to preclude the use of innovative design concepts.

KK) Detention and Retention Facility Design and Site Details. The design and site details for detention and retention basins must provide for the following: Adequate space and legal authority for access (a minimum of 15 feet around top of slopes) must be provided for maintenance and inspection, The facilities must be designed and have emergency spillways to allow passage of a 100-year developed runoff without detriment to the structure and must limit backwater to avoid damage to the improvements on the site, and low-flow openings of less than 12 inches in diameter or minor dimension shall be provided with a 2-inch bar screen with a net opening area of at least 144 square inches.

4.2.5.1.4 Through City ordinances, all post construction facilities are required to be inspected often, and maintained as designed. The City routinely inspects and maintains its post construction facilities on a regular basis.

- A)** The City of Sikeston inspects and performs routine maintenance on City owned storm water retention basins, detention basins and storm water pollution control structures on a regular basis. Record of the inspections are documented and kept on file with the Sikeston's Public Works Department. *MCM 3, 6*
- B)** Per Section 700.080 of Sikeston's Storm Water Ordinance #5816, responsibility for the long-term operation and maintenance of privately owned drainage facilities shall remain with the legal owner of the site. However, if the owner of the site for storm water detention and retention structures

including attenuation devices fails to provide adequate operation and maintenance and the facilities become inoperative or ineffective, the City of Sikeston may perform remedial work at the developers expense.

- c)** Planned Measurable Goals for this permit period include creating a dialogue with owners and operators of privately owned post-construction structures. The goal will be to implement BMP's for regular inspections and monitoring.



Municipal Pollution Prevention/ Good Housekeeping

4.2.6 Pollution Prevention/Good Housekeeping for Municipal Operations Minimum Control Measures

4.2.6.1 The City of Sikeston will continue to implement and develop new pollution prevention/good housekeeping BMPs to prevent and reduce pollutant runoff from municipal operations. The program includes training of City employees and encompasses all departments and divisions that have roles pertinent to storm water pollution controls and good housekeeping.

4.2.6.1.1 Training of City employees will continue on methods to minimize pollution from runoff from City property and to reduce pollution through the routine maintenance and operations of City property.

A) The City of Sikeston's employees will be continually trained using the City's SWMP Municipal Pollution Plan, a Municipal Operations manual on Pollution Prevention and Good Housekeeping. Employees will also be trained through educational materials available from other local MS4 communities, the MO Department of Natural Resources and the E.P.A. The City also takes advantage to train employees through web based conferences, area storm water conferences, and books and publications.

B) Sikeston's SWMP offers multiple opportunities for City employees to coordinate pollution prevention efforts and good housekeeping practices with all minimum control measures. Resources available to the City such as social media and electronic mail based publications can display to the public the efforts of Sikeston's employees good housekeeping

practices. Many of the City's public participation programs offers employees the opportunities to participate in events such as the Adopt-A-Road program. Employees are continually trained on illicit discharge detection and implement the MCM's routinely. Training on Construction site runoff and post-construction site runoff are routinely offered to employees, as well as implementing the MCM's.

4.2.6.1.2 A list of all municipal operations, along with a list of all City owned properties that are impacted by the City's SWMP Municipal Pollution Plan, are kept on file at the Public Works Complex.

- A)** Properties of the City that are impacted by this operations and maintenance program include administration buildings, public safety buildings, multiple parks, streets and public right of ways, public works buildings, an animal shelter, Sikeston's municipal airport, and a fuel site.
- B)** The City of Sikeston does not operate any facilities that are subject to NPDES permits for storm water discharges.
- C)** Sikeston's Board of Municipal Utilities owns and operates two waste water treatment plants that discharge into Sikeston's MS4 and operates independently of the City of Sikeston. These two waste water plants operate under Missouri Operating Permits #0035009 and #0120863.
- D)** Sikeston's Board of Municipal Utilities owns and operates a coal fired power plant that discharge into Sikeston's MS4 and operates independently of the City of Sikeston. This power station operates on Missouri Operating Permit #0095575.

4.2.6.1.3 The City of Sikeston will continue to build upon the success of its operations and maintenance program to prevent or further reduce pollution runoff from City departments and

facilities. Each operation and maintenance program includes a description of what pollutant employees can find at each city owned facility and who the responsible party is for the SWMP BMP's. The program to date contains the following municipal operations and categories:

- A) Vehicle Maintenance and Repair**- BMP's for vehicle maintenance and repair include procedures for engine repair and service, replacement of fluids, outdoor equipment storage and parking, and long term inspection procedures.
- B) Vehicle Fueling**- BMP's for vehicle fueling include training employees on the proper fueling techniques, proper spill cleaning and reporting techniques.
- C) Vehicle Washing**- BMP's for vehicle and equipment washing include practices such as designating areas for washing, proper wash water disposal procedures, spill containment and the cleanup of solid debris.
- D) Outdoor Loading and Unloading**- The BMP's for this maintenance operation contains procedures for loading and unloading of hazardous materials. Techniques include proper areas for loading and procedures for spill containment and cleanup.
- E) Outdoor Storage**- BMP's for outdoor storage include protecting materials from exposure to rainfall, creating containment systems, inspection procedures and proper spill containment and cleanup procedures.
- F) Dumpster/ Waste Management**- Employees are trained with these BMP's to properly dispose of solid and hazardous wastes, proper waste area cleaning procedures, and spill containment and cleanup procedures.
- G) Building Repair and Maintenance**- The BMP's for building repair and maintenance address procedures such as power washing, erosion

control, proper disposal of paints and solvents, work area cleaning procedures and proper spill containment and cleanup techniques.

- H) Parking Lot Maintenance- The BMP's for parking lot maintenance include procedures for preventing the discharge of pollutants in storm drains, techniques for keeping parking areas clean and orderly, and proper spill containment and clean up procedures.
- I) Turf and Landscaping Management- Employees are trained to utilize proper protocols through turf and landscape BMP's. Included in the BMP's are procedures for proper lawn management, proper disposal of yard debris, proper use of herbicides and pesticides, erosion control, and training for employees and contractors on proper techniques for spill containment and cleanup.

4.2.6.1.4

The City of Sikeston will continue to practice existing BMP's and develop new Pollution Prevention/ Good Housekeeping procedures to prevent and reduce storm water pollution runoff.

- A) Programs include training for City employees and encompass all departments. Employees are trained to recognize pollution generated activities and identify storm water pollutants such as sediment, nutrients, metals, hydrocarbons and toxins.
- B) City of Sikeston capital improvement projects such as street and drainage improvements, new building construction projects and contractual services are designed with requirements for erosion and sediment control and storm water management. These projects and services are reviewed by City staff for proper storm water pollution BMP's and are routinely inspected for compliance.
- C) Sikeston's Operations and Maintenance program has also been developed to create controls for reducing and eliminating discharges of pollutants

from City construction projects, street and right of way projects, city storm sewers, parks and landscaping projects. The O&M's manual also addresses BMP's for storm water management, Sikeston's Storm Water Pollution Hotline, residential stewardship and employee training. Sikeston's O&M's manual addresses the following BMP's:

AA) Construction Project Management- BMP's for this O&M program addresses a number of negative impacts on water quality at construction sites and how to eliminate them such as using protective barriers, equipment maintenance, disposal of solid waste, employee training and spill containment and cleanup.

BB) Street Repair & Maintenance- The O&M's manual describes how Street repair and maintenance can generate a wide range of storm water pollution. The program offers BMP's to properly manage these activities including dry weather repairs, protection of storm water inlets and adjacent waterways, equipment maintenance, employee training and spill containment and cleanup.

CC) Street Sweeping Operations- BMP's for the street sweeping operation include procedures such as scheduling operations in dry weather, maintaining equipment, coordinating street sweeping with pollution preventing events, employee training and the proper disposal of swept materials.

DD) Storm Water Drain Maintenance- The O&M's manual describes how as a consequence of its function, the storm water conveyance system collects urban runoff that contains pollutants. BMP's for this maintenance program include using the City's GIS maps for maintenance and locations, using storm drain maintenance in conjunction with

street sweeping, training in illicit detection, and training in record keeping and disposal.

EE) Storm Water Hotline Response- BMP's for Storm Water Hotline response include training employees on illicit discharge detection, improving the way our community responds to storm water pollution, and better means of advertising the hotline to the public.

FF) Parks and Landscaping Maintenance- The O&M's manual discusses how the maintenance operations in these areas include mowing, fertilization, and pesticide applications. BMP's involve proper lawn maintenance techniques, the proper use of herbicides and pesticides, the importance of planting trees, employee training and proper spill containment and cleanup.

GG) Residential Stewardship- The O&M's manual discusses how residents can engage in many activities that can affect water quality. BMP's in this maintenance program train employees on how to encourage the public in efforts such as tree planting, detecting illicit discharges, using the City's Storm Water Pollution Hotline, and picking up pet waste.

HH) Storm Water Management- This maintenance program discusses how storm water management facilities such as basins and detention ponds are to be maintained and inspected. BMP's include practices such as ensuring local ordinances are enforced, performing routine inspections, and training employees on illicit detection.

II) Employee Training- Everyday employees engage in a variety of activities that influence water quality. The City's O&M's manual recognizes that properly educated employees can help reduce the amount of storm water pollution. BMP's for this maintenance operation include maintaining a database on basic information for employee

training, focusing good housekeeping efforts, identifying municipal operations that have the greatest impact on water quality, and discussing best management programs continually with employees.

4.2.6.1.5 The City has procedures for proper disposal of waste that is collected in its municipal operations programs.

- A)** The City of Sikeston utilizes its compost site to properly dispose of sweeper collected debris, dredged materials, compost debris and materials collected with its storm water pipe maintenance vacuum truck. Sikeston's compost site offers a unique design in that it contains all materials disposed of and prevents those materials from reentering the storm water system.
- B)** City employees are trained with the use of its Operations and Maintenance manual on the proper techniques of waste disposal.

4.2.6.1.6 Sikeston's Department of Public Works Planning Division reviews all flood management projects that require a floodplain development permit. The Planning Division will recommend any storm water pollution control devices and practices. Any floodplain management project requires proper permits that may be required by the Department of Natural Resources and a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must contain BMP's for inspection and maintenance procedures for runoff control and sediment control devices.

4.2.6.2 All paints, solvents, petroleum products and petroleum waste products under the control of the City will be stored in a manner so as not exposed to storm water. BMP's will be provided to prevent possible spills into the waters of the State and or possible contamination of ground waters.

- A)** Procedures outlined in Sikeston`s Operations and Maintenance manual provide BMP`s for the storage of paints, solvents, and petroleum products. Employees are trained to always, if possible, store such materials indoors. Proper training is provided to employees on BMP`s for spill containment and cleanup.
- B)** Salt used for the treatment of winter conditions on roadways is stored in a building designed for salt storage.



Other Permit Conditions

5.0 Recordkeeping

- 5.1** It is the policy of the City of Sikeston to retain records for a minimum of three years. All records pertaining to the SWMP, including copies of ordinances, policies, data collected, maintenance records, SWAB minutes, and record of formal procedure are retained for a period of five years. Copies of the SWMP and of the permit can be located at Sikeston's City Hall and in the offices of Sikeston's Public Works, as well as on the City's web site.
- 5.2** Copies of the SWMP and of the permit can be located at Sikeston's City Hall and in the offices of Sikeston's Public Works Department, as well as on the City's web site. The information will be made available to the Department upon request.
- 5.3** Copies of the SWMP and of the permit can be located at Sikeston's City Hall and in the offices of Sikeston's Public Works Department, as well as on the City's web site. The information will be made available to the public upon request.



Appendix A

Total Maximum Daily Load Information Sheet

St. Johns Ditch Water Body ID: 3138



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

St. Johns Ditch

Water Body ID: 3138

Water Body Segment at a Glance:

Counties:	Scott/New Madrid
Nearby City:	Sikeston
Length:	15.3 miles
Pollutant¹:	Bacteria
Source:	Rural nonpoint sources and urban runoff/storm sewers



State Map Showing Location of Watershed

Scheduled for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm.

Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. St. Johns Ditch is impaired due to exceedances of water quality criteria that protect recreational uses.

Designated uses of St. John Ditch*

- Warm Water Habitat (WWH)
- Whole Body Contact Recreation Category B (WBC-B)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

*In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

Use that is impaired

- Whole Body Contact Recreation Category B (WBC-B)

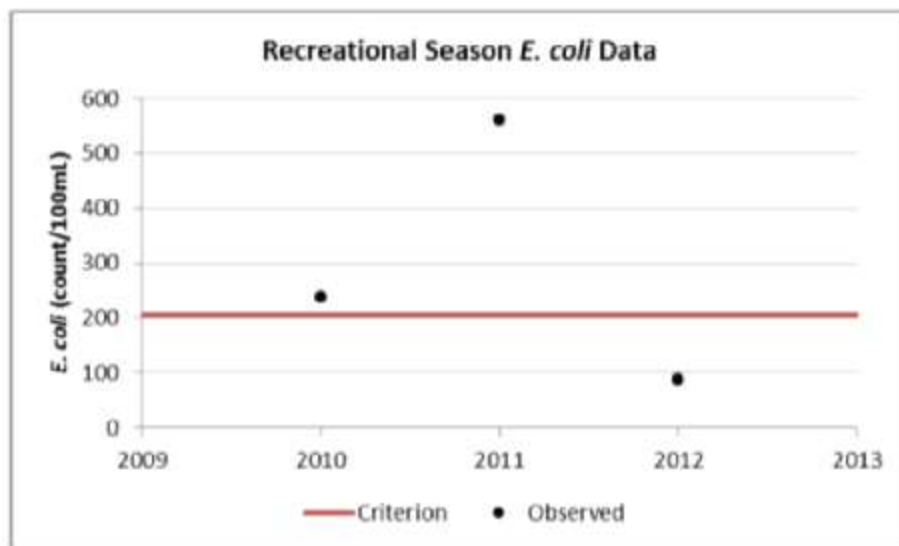
¹ St. John's Ditch is also listed as impaired due to mercury caused by atmospheric deposition. For information on mercury impairments, see the mercury TMDL information sheet online at dnr.mo.gov/pubs/pub2356.pdf.

Criteria that apply

- Missouri's Water Quality Standards at 10 CSR 20-7.031(5)(C) and Table A state that for category B waters, the *E. coli* bacteria count shall not exceed 206 per 100 milliliters of water. This count is the geometric mean during the recreational season (April 1- October 31).

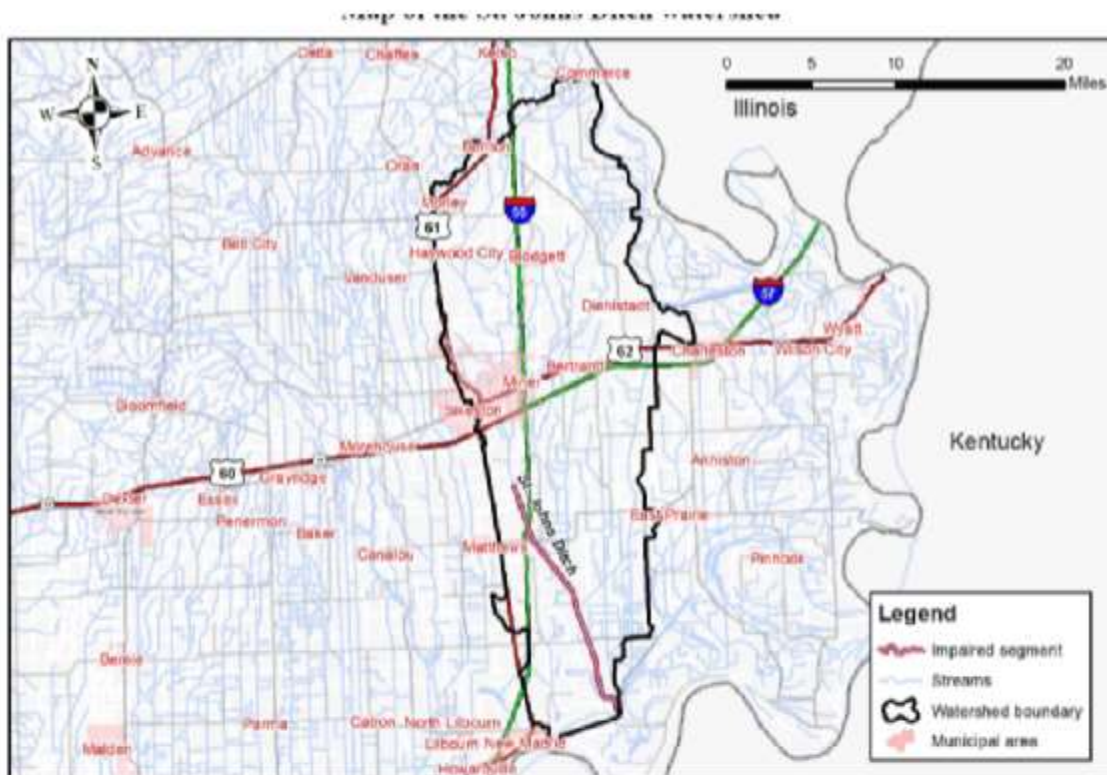
Assessment and water quality data

High counts of *E. coli* bacteria in surface water are an indication of fecal contamination. *E. coli*, are bacteria found in the intestines of warm blooded animals and are used as indicators of the risk of waterborne disease from pathogenic bacteria or viruses. The department judges a stream to be impaired by *E. coli* if the criterion is exceeded in any of the three years in which there are a minimum of five samples collected during the recreational season. The most recent three years with sufficient data are 2010, 2011 and 2012. The criterion was exceeded in 2010 and 2011.



TMDL for St. Johns Ditch

The St. Johns Ditch TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the St. Johns Ditch TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.



For more information call or write:
 Department of Natural Resources
 Water Protection Program – Watershed Protection Section
 P.O. Box 176
 Jefferson City, MO 65102-0176
 Ph: 1-800-361-4827 or 573-751-1300
 Fax: 573-526-6802
 Email: TMDL@dnr.mo.gov
 Program Home Page: dnr.mo.gov/euv/wpp/index.html



Appendix B

Measurable Goals and Implementation Milestones

Measureable Goals and Implementation Milestones

Goal #	Measurable Goal	Implementation Timeframe	Priority	Applicable MCM(s)
1	Publish an article on storm water pollution prevention every two months on Sikeston's FaceBook page.	Continually through permit cycle	●	I
2	Publish an article on storm water pollution prevention every two months on Sikeston's Scanner Email publication.	Continually through permit cycle	●	I
3	Publish an article every six months in Sikeston's local newspaper on storm water pollution.	Continually through permit cycle	●	I
4	Update Sikeston's storm water management webpage as needed.	Continually through permit cycle	●	I
5	Continue to distribute brochures on storm water pollution to affected parties and stakeholders.	Continually through permit cycle	●	I
6	Continue to distribute fliers on a need to basis when storm water violations are observed.	Continually through permit cycle	●	I, III
7	Utilize the City's sign making capabilities to promote MS4 issues throughout the City.	Continually through permit cycle	●	I
8	Open a dialogue with area schools to help promote MS4 issues.	Within first year of permit cycle	●	I
9	Conduct Storm Water Advisory Board hearings bi-annually.	Continually through permit cycle	●	I, II
10	Begin water sampling through MO's Dept. of Conservation's Stream Team program bi-annually.	Within first year of permit cycle	●	I, II

11	Continue to promote the City's Adopt-A-Road program. Add 3 miles through permit cycle.	Continually through permit cycle	●	I, II, III, VI
12	Continue to promote the City's curbside bulky trash collection program. Schedule 4 pickups per year.	Continually through permit cycle	●	II, III, VI
13	Continue to schedule Sikeston's Community Cleanup annually for citizens to dispose of bulky trash. Track tonnage disposed.	Continually through permit cycle	●	II, III, VI
14	Continue to schedule the City's Compost collection program. Schedule twice monthly.	Continually through permit cycle	●	II, III, VI
15	Redevelop Sikeston's Leaf Collection program to better serve residents of Sikeston.	Before end of permit cycle	●	II, III, VI
16	Continue to promote and advertise the City's Storm Water Pollution reporting hotline.	Continually through permit cycle	●	I, II, III, IV, VI
17	Continue to update GIS mapping when required.	Continually through permit cycle	●	III, VI
18	Continue to conduct visual inspections on all major outfalls. Schedule inspections quarterly.	Continually through permit cycle	●	III, VI
19	Continue to conduct visual screenings and inspections of commercial/ industrial properties for illicit discharges.	Continually through permit cycle	●	III
20	Create data base for inspections of commercial/ industrial properties for illicit discharge.	Within first year of permit cycle	●	III
21	Review annually Illicit Discharge Ordinances.	Continually through permit cycle	●	III
22	Begin placing "Only Rain in the Drain" markers on existing storm drains.	Within first year of permit cycle	●	I, II, III, VI
23	Continue to enforce City Ordinance #5816 at construction sites.	Continually through permit cycle	●	III, IV, V
24	Inspect construction sites for storm water violations.	Continually through permit cycle	●	III, IV, V

25	Continue to document all inspections.	Continually through permit cycle	●	III, IV, V, IV
26	Document all violations with follow up inspections at construction zones.	Continually through permit cycle	●	III, IV, V, IV
27	Review annually construction site ordinances.	Continually through permit cycle	●	IV, V
28	Continue to educate the public/contractors on construction site storm water runoff pollution.	Continually through permit cycle	●	I, III, IV, V
29	Continue to educate Planning Division employees and City personal on how to detect construction site runoff.	Continually through permit cycle	●	III, IV, V, VI
30	Create data base of all post construction facilities within City boundaries.	Within first year of permit cycle	●	V
31	Create dialogue with owners of post construction facilities that predate 2010 Ordinance #5816.	Within first year of permit cycle	●	I, II, V
32	Create inspection process for post construction facilities that predate City Ordinance #5816.	Within first year of permit cycle	●	V, VI
33	Educate City staff on inspection process for post construction.	Within first year of permit cycle	●	V, VI
34	Improve inspection process for City owned post construction facilities.	Within first year of permit cycle	●	V, VI
35	Develop ideas and incentives for "green" infrastructure in new and existing construction and infrastructure.	Before end of permit cycle	●	V
36	Obtain new structure to improve dry storage for winter weather salt.	Before end of permit cycle	●	VI
37	Improve containment systems for chemicals and oils stored at City owned facilities.	Before end of permit cycle	●	VI
38	Improve designated areas for equipment maintenance and washing at City owned facilities.	Before end of permit cycle	●	VI
39	Equip all City owned vehicles with spill kits.	Before end of permit cycle	●	VI

40	Continue to evaluate and update the Operation and Maintenance manual on municipal good housekeeping practices.	Continually through permit cycle	●	VI
41	Continue to educate City employees on storm water good housekeeping techniques/ BMPS.	Continually through permit cycle	●	VI
42	Place O&M manual on City employees website for easier access.	Within first year of permit cycle	●	VI
43	Implement tracking of street sweeping for each street within City boundaries. Evaluate sweeping schedule and procedures.	Within first year of permit cycle	●	VI
44	Establish procedures for storm water pollution inspections at City facilities.	Within first year of permit cycle	●	VI
45	Continue to improve on all documentation and inspection procedures.	Continually through permit cycle	●	VI
46	Continue to improve educating the public on residential stewardship good housekeeping and BMP's.	Continually through permit cycle	●	I, II, VI



Appendix C

Ordinance #5816 on Construction Site Runoff & Post Construction Storm Water Management

THIS BILL AS APPROVED SHALL BECOME ORDINANCE NUMBER 5816 AND SHALL AMEND CHAPTER 13.08, ARTICLE II - STORMWATER MANAGEMENT WITHIN THE CITY OF SIKESTON, MISSOURI.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SIKESTON, MISSOURI AS FOLLOWS:

SECTION I: This Ordinance shall be codified in Chapter 13.08, Article II of the City Municipal Code.

SECTION II: Chapter 13.08, Article II, Sections 13.08.380 through 13.08.540 are amended to read as follows:

“13.08.380 (700.030) IMPROVEMENTS – PERMIT REQUIRED

No person may make any improvements or change in the use, arrangements, or appearance of any structure or land without first obtaining a permit from the City of Sikeston, in the manner set forth in this article, and in any and all other applicable ordinances in affect in this City. (R.O. 2009 §13.09.380; Ord. 5816 §II, 2010; Ord. 4101 §1, 1980)

13.08.390 (700.040) ACTIVITIES THAT REQUIRE PERMIT

For purposes of this article, the following activities may potentially alter or disrupt the natural StormWater runoff patterns and as such will require a permit prior to the initiation of any such project.

- A. Clearing and/or draining of land as an adjunct to construction;
- B. Clearing and/or draining of land for agricultural purposes;
- C. Converting agricultural lands to nonagricultural uses;
- D. Subdividing land into two or more parcels;
- E. Replatting recorded subdivisions and the development of unrecorded subdivisions;
- F. Changing the use, arrangement, appearance, intensity or density of structures or land;
- G. Altering the shoreline or bank of any surface water body;
- H. Any activities which disturb one (1) acre or more of pervious surface, with the exception of farming activities; and
- I. Creating and/or increasing pervious surface, either building or parking area, with an area of greater than 2,000 square feet. (R.O. 2009 §13.08.390; Ord. 5816 §II, 2010; Ord. No. 4101 §3 1980)

13.08.400 (700.050) PERFORMANCE STANDARDS

StormWater management control standards shall meet the following performance standards and requirements:

- A. The surface runoff from the developed site shall approximate the hydrograph, in terms of peak flow, for a two-year frequency storm for the undeveloped, natural site. In addition the shape and timing of the outflow hydrograph on downstream flow and water quality conditions shall be assessed.
- B. Historical rates and volumes of StormWater runoff, whether discharged into natural drainage corridors or artificial drainage systems, shall meet existing water quality standards at the point of discharge. Discharge points shall be designed to prevent erosive velocities.
- C. Runoff computations shall be based on the most critical situation (rainfall duration and distribution) and conform to acceptable engineering practices using rainfall data and other local information applicable to the affected area.
- D. Retention or Detentions Structures and attenuation devices
 - 1. Retention or detention structures and attenuation devices in subdivision projects shall be on private property, except where it is determined, through the subdivision review process, that there will be a public benefit and that specific public benefit is desirable in the proposed location. Maintenance responsibility shall remain with the property owner on which the structure is located.
 - 2. To determine the desirability and feasibility of public ownership and public maintenance of a retention or detention structure and attenuation devices the following items shall be considered in, but not limited to, the following evaluations.
 - a) Size of the development project;
 - b) Type of retention or detention facility;
 - c) Multiple uses of the area;
 - d) Maintenance costs involved;
 - e) Effective of StormWater control; and
 - f) Relationship to the overall development. (R.O. 2009 §13.08.400; Ord. 5816 §II, 2010; Ord. No. 4101 §6(part), 1980)

13.08.410 (700.060) DESIGN CRITERIA

The following criteria are to be applied in the design and development of StormWater drainage facilities:

A. StormWater Collection Systems

- 1. Design Frequency. Ten-year frequency rainfall amounts from technical papers published by the U. S. Weather Bureau shall be used to determine the discharges for the design of storm sewers, inlet capacities and such appurtenances.
- 2. Hydrologic Design. Hydrologic designs and summary runoff computations shall be prepared by a professional engineer registered in the State of Missouri, and must be made using the Rational Method (with "C" factors based upon percent of impervious site area from the tabulation in this paragraph), Soil Conservation Service Technical Release 55 (TR-55) or other technical method acceptable to the City. If other methods than the two noted herein are proposed then approval must be obtained from the City.

<u>% Impervious</u>	<u>Rational C Factor</u>
05	0.37
10	0.39
20	0.44
30	0.48
40	0.52
50	0.56
60	0.60
70	0.64
80	0.68
90	0.73
100	0.77

3. Hydraulic Design. Hydraulic computations for pipes and ditches shall use open channel, pressurized pipe, culvert, orifice and weir equations and coefficients generally accepted by the civil engineering community. The project engineer shall clearly document the sources used for hydraulic design.

4. Conveyance on Streets. The 10-year storm flow shall be allowed to be conveyed on all streets to a depth of 2 inches above the roadway centerline, but in no case shall the StormWater extend either to more than 14 feet beyond the edge of pavement or back of curb or outside the street right-of-way.

5. Maintenance during Construction.

- a. Straw bale barriers, silt fences or similar erosion control features must be provided during construction to control the transport of silt from the site and into the public streets or StormWater system.
- b. Seeding and mulching or sodding of earthen improvements must be made as soon as possible after completion of the improvements.
- c. Prior to acceptance by the City all features must be free of sediment and a sufficient stand of grass or other protective measures must be established to retard erosion and control the transport of sediment.
- d. If the Developer fails to provide adequate maintenance and the facilities become inoperative or ineffective, the City of Sikeston may perform remedial work at the Developer's expense.

B. StormWater Detention or Retention Facilities

1. When Required. Detention or retention systems will be required for development sites from which the post-development 10-year discharge would exceed the 10-year pre-development discharge and where the existing downstream drainage facilities have inadequate capacity to accept the additional post-development discharge from the site. Design computations will be required

to demonstrate that no detention is required. Developments without detention or retention must be individually approved by the City Manager or his designee.

2. Detention Design Frequency. Detention basins shall be designed to receive the 10-year post-development discharge and limit the maximum discharge from the site to the two-year pre-development discharge. Computations must be provided for the basin volume and for the performance of the control structure.

3. Detention Volume for Sites of 20 Acres or Less. For sites of 20 acres or less the volumes for detention basins shall be determined by either a routing of the 10-year hydrograph through the basin and control structure by an acceptable computer-based hydraulic routing program or by providing a volume equivalent to provided 1800 seconds of storage of the difference between the 10-year peak post-development discharge and the two-year peak predevelopment discharge.

4. Detention Volume for Sites of over 20 Acres. For sites of over 20 acres the volumes for detention basins must be determined by routing the 10-year hydrograph through the basin and control structure with an acceptable computer-based hydraulic routing program.

5. Retention Basin Design. StormWater retention basins or hybrid detention/ retention basins may be used to take advantage of soil infiltration to reduce the peak rate of discharge. Discharge from such basins shall not exceed the 2-year pre-development flow. Design seepage rates shall not be more than 10 percent of that observed by onsite percolation tests or indicated by soil report data. The total volume of no-discharge retention-only basins shall not be less than that required to contain the total volume of runoff from an 8.5-inch rainfall event as indicated by Table 2-1 of TR-55.

6. Forms of Detention and Retention. Detention and retention basins may be provided in the following forms:

- a) Drain-dry earthen basins with maximum 4:1 side slopes, concrete lined low-flow channels and a 1-foot minimum freeboard,
- b) Permanent ponds with maximum 4:1 side slopes, minimum permanent water depth of 3 feet and 2-foot minimum freeboard,
- c) Underground piping and basins with provisions for silt control and removal,
- d) Parking lots to a maximum depth of 12 inches.
- e) The above list of design options is not intended to preclude the use of innovative design concepts.

7. Detention and Retention Facility Design and Site Details. The design and site details for detention and retention basins must provide for the following:

- a) Adequate space and legal authority for access (a minimum of 15 feet around top of slopes) must be provided for maintenance and inspection.

- b) The facilities must be designed and have emergency spillways to allow passage of a 100-year developed runoff without detriment to the structure and must limit backwater to avoid damage to the improvements on the site.
- c) Low-flow openings of less than 12 inches in diameter or minor dimension shall be provided with a 2-inch bar screen with a net opening area of at least 144 square inches.

8. Maintenance during Construction.

- a) Detention or retention facilities must be constructed before other major site disruption to allow the features to be used for the control of the transport sediment.
- b) Accumulated sediment must be removed whenever the presence of such sediment degrades the performance of the structure in the control of transport of sediment.
- c) If the Developer fails to provide adequate maintenance and the facilities become inoperative or ineffective or become a nuisance, the City of Sikeston may perform remedial work at the Developer's expense. (R.O. 2009 §13.08.410; Ord. 5816 §II, 2010)

13.08.420 (700.070) CONSTRUCTION SITE RUNOFF CONTROL

The following provisions shall govern the control of all construction site runoff for all construction projects within the City.

A. Site Disturbance Permits Required.

All construction projects which would disturb one (1) acre or more must obtain a Land Disturbance permit from the Missouri Department of Natural Resources. In addition to the requirements of this chapter the condition of any land disturbance permit shall be applicable.

B. Best Management Practices (BMP's).

BMP's shall include both physical improvements and good construction practices. The minimum required BMP's shall include the following, but may include others as required by the Owner in the review of the construction.

1. **Physical Silt Control BMP's.** All construction projects shall provide a physical or vegetative buffer to retard the migration of silt from the site of the project. These measures must be installed prior to the start of excavating or grading activities and may be silt fencing, straw bale barriers, sod strips, fully established turf strips or other management practice that will effectively retard the migration of silt.
2. **Physical Tracking Control BMP's.** The access to construction sites must be either a permanently paved or a temporary gravel surface sufficient to allow for the movement to and from the site and parking of vehicles on site. The goal of this requirement is to eliminate the tracking of silt on vehicles from construction sites.
3. **Establishment of Turf.** The contractor shall provide seeding and mulching of a minimum width of 20 feet along the perimeter of the site immediately upon

completion of grading activities. Follow-up seeding shall be done as required to produce an acceptable stand of grass. No disturbed areas along the site perimeter shall be left without seeding for more than 1 month.

4. Construction Practice BMP's. Provisions must be made on construction sites to prevent to migration of mud, silt and debris including the following minimum measures:

- a) The contractor shall be responsible to inform employees on the goals to minimize pollution and to provide instructions on the measures required by this chapter.
- b) Parking on non-surfaced areas shall be avoided. Contractors must use paved access and parking areas adjacent to or within the area.
- c) All vehicles leaving the site will be washed of all mud. The contractor shall maintain a wash down area and washed materials shall be removed on a regular basis.
- d) The contractor shall sweep the public roadway as required to remove mud, dirt or rock tracked from the site.
- e) No slopes or cut faces or embankments shall be left at day's end that are greater than 3 horizontal to 1 vertical except for excavations than have no discharge from the site.

5. Spill Prevention BMP's. The following provisions must be made regarding spill prevention and control:

- a) Any spill of petroleum, paint or other product which might cause groundwater pollution in excess of 5 gallons shall be immediately reported to the City.
- b) Vehicles that have fluid leaks will not be used, any leaks will be fixed immediately or the equipment shall be hauled from the site.
- c) Concrete trucks shall not be washed down in areas where the washed material will not be properly disposed with embankment.
- d) The contractor shall not allow any liquid to be washed into any street, storm sewer, swale or ditch. All liquid products shall be stored in their original containers and sealed when not in use.

6. Solid Waste BMP's. The following provisions must be made regarding the handling of solid waste:

- a) All vegetative solid waste shall be disposed by the contractor in compliance with prevailing laws, ordinances and regulations. No burning of any form will be allowed.
- b) Removed pavement may be used as embankment as long as it qualifies as clean fill in compliance with prevailing laws, ordinances and regulations.
- c) Other solid waste not conforming to the above requirements shall be disposed by the contractor at a permitted solid waste disposal facility.

7. Maintenance and Inspection of BMP's. As a minimum the contractor shall perform the following maintenance and inspection activities:

- a) All control measures shall be inspected by the contractor at least once per week and following any storm event of 0.5 inches or more. A log shall be kept of inspection activities.
- b) Repairs required for any structural BMP's shall be made by the contractor within 24 hours of being discovered,
- c) Public roadways used for access for the project shall be inspected daily for dirt, debris, spills and any such materials shall be corrected immediately.
- d) Public roadway pavements shall be inspected daily for pavement damage; any noted damage must be reported to the City immediately.
- e) Accumulated sediment that impacts the performance of a BMP will be removed and shall not be allowed to exceed one third the height of the barrier. (R.O. 2009 §13.08.420; Ord. 5816 §II, 2010)

13.08.430 (700.080) POST-CONSTRUCTION OPERATION & MAINTENANCE

The following provisions shall govern the long-term operation and maintenance of privately-owned drainage facilities including detention and retention basins.

- A. If responsibility for post-construction operation and maintenance is to be transferred to the individual private owners in a subdivision, the Developer shall assure perpetual maintenance of the drainage facilities through the adoption of maintenance agreements and covenants to be noted on and recorded with the subdivision plat and referenced on the deeds for any such facilities.
- B. Operation and maintenance responsibilities for StormWater detention and retention structures including flow attenuation devices shall remain with the legal owner of the site of the subject improvements. Typical operation and maintenance activities include the following:
 - 1. Period inspections for defects affecting performance,
 - 2. Removal of accumulated silt and debris,
 - 3. Mowing and turf maintenance.
- C. If the owner of the site for StormWater detention and retention structures including flow attenuation devices fails to provide adequate operation and maintenance and the facilities become inoperative or ineffective or become a nuisance, the City of Sikeston may perform remedial work at the Developer's expense. (R.O. 2009 §13.08.430; Ord. 5816 §II, 2010)

13.08.440 (700.090) PERMIT – APPLICATION CONTENTS

Any person proposing to make any material change in the use or appearance of any structure or land shall apply for a permit on an application form available from the Planning/Code Enforcement Office of the City of Sikeston. Said application shall be filed by the owner/applicant and shall contain the following elements:

- A. A location map;
- B. A statement expressing the intent and scope of the proposed project; and
- C. A schedule of proposed improvements. (R.O. 2009 §13.08.440; Ord. 5816 §II, A. 2010; Ord. No. 4101 §7(part), 1980)

13.08.450 (700.100) APPLICATION REVIEW, PERMIT ISSUANCE

Within forty-five (45) working days after submission of the completed permit application package, the City Manager or his designee shall approve, approve subject to conditions/modifications, or reject the proposed plans, and shall notify the applicant accordingly.

- A. If additional engineering information is required, it shall be the responsibility of the applicant to furnish the following information to the City Manager or his designee:
 - 1. A detailed site plan, including general location map for the proposed project prepared by a professional engineer registered in the State of Missouri.
 - 2. Topographic maps of the site before and after the proposed alteration, including such adjoining land whose topography may affect the layout or drainage;
 - 3. General vegetation maps of the site before and after the proposed alteration; and
 - 4. The construction plans, specifications and computations necessary to indicate compliance with the requirements of this Article. (R.O. 2009§13.08.450; Ord. 5816 §II, 2010)
- B. If the application is rejected or modified, the City Manager or his designee shall state the reasons for rejection or modification.
- C. If the City Manager or his designee has not rendered a decision within forty-five (45) business days after the application's submission, the designee must inform the applicant of the status of the review process and the anticipated completion date.
- D. If the applicant feels aggrieved due to rejection, modification or delay, the applicant must request a hearing before the City Council. (R.O. 2009 §13.08.450; Ord. 5816 §II, 2010; Ord. No. 4101 §7(part), 1980)

13.08.460 (700.110) PERMIT FEE

A permit fee shall be collected at the time the permit application is filed. Said fee will reflect the cost of the administration and management of the permitting process. (R.O. 2009 §13.08.460; Ord. 5816 §II, 2010)

13.08.470 (700.120) PLAN ADHERENCE

After approval of the permit application, the applicant shall be required to adhere strictly to the StormWater Management Plan and construction site runoff control measures, as approved. Any changes or amendments to the plan must be approved by the City Manager or his designee in accordance with the procedures set forth in 13.08.440 (700.090) through 13.08.490 (700.140). The City Manager or his design shall be

granted inspection rights and right-of-entry privileges in order to insure compliance with the requirements of this Article. (R.O. 2009 §13.08.470; Ord. 5816 §II, 2010; Ord. No. 4101 §8, 1980)

13.08.480 (700.130) ENFORCEMENT

If the City Manager or his designee determines the project is not being carried out in accordance with the approved plan, said designee is authorized to:

- A. Issue written notice to the applicant specifying the nature and location of the alleged non-compliance, with the remedial steps necessary to bring the project into compliance.
- B. Issue a stop work order directing the applicant to cease and desist all or any portion of the work which violates the provisions of this Article, if the remedial work is not completed within a specified time frame. The applicant must then bring the project into compliance or be subject to immediate revocation of this permit and to the penalties in section 13.08.540 (700.190). (R.O. 2009 §13.08.480; Ord. 5816 §II, 2010; Ord. No. 4101 §10, 1980)

13.08.490 (700.140) VARIANCE PROCEDURE

Where it may be shown by investigation that an increase or decrease in the rate or volume of surface runoff may be beneficial to the water resources of the City of Sikeston, Missouri, the City Manager, upon recommendation by his designee may grant a variance to this Article. The variance request must be initiated by the developer. (R.O. 2009 §13.08.490; Ord. 5816 §II, 2010; Ord. No. 4101 §12, 1980)

13.08.500 (700.150) EMERGENCY EXEMPTION

No part of this Article shall be construed to prevent the doing of any act necessary to prevent material harm to or destruction of real or personal property as a result of a present emergency when the property is in imminent peril and the necessity of obtaining a permit is impractical and would cause undue hardship in the protection of the property. (R.O. 2009 §13.08.500; Ord. 5816 §II, 2010; Ord. No. 4101 §13, 1980)

13.08.510 (700.160) Interpretation – Liberal Construance

In the interpretation and application of this Article, the provisions expressed shall be held to be the minimum requirements and shall be liberally construed in favor of the City and shall not be deemed a limitation or repeal of any other powers granted by City Charter or State Statutes. (R.O. 2009 §13.08.510; Ord. 5816 §II, 2010; Ord. No. 4101 §14, 1980)

13.08.520 (700.170) DISCLAIMER OF LIABILITY

This Article shall not create liability on the part of the City or any official or employee thereof for any damages which may result from reliance on this Article or on any administrative decision lawfully made thereunder. (R.O. 2009 §13.08.520; Ord. 5816 §II, 2010; Ord. No. 4101 §15, 1980)

13.08.530 (700.180) CONFLICTS WITH OTHER ORDINANCES

In case of conflict between this Article or any part thereof and the whole or part of any other existing or future ordinance or code, the most restrictive in each case shall apply. (R.O. 2009 §13.08.530; Ord. 5816 §II, 2010; Ord. No. 4101 §16, 1980)

13.08.540 (700.190) VIOLATION – PENALTY

Any person, whether owner, lessee, principal, agent, employer or otherwise, who violates or causes to be violated any provision of this Article or permits any such violation or fails to comply with any of the requirements shall be punished by a fine not to exceed five hundred dollars (\$500.00), or by imprisonment for a period not to exceed sixty (60) days, or by both such fine and imprisonment. Each day upon which such violation shall continue shall constitute a separate offense hereunder. (R.O. 2009 §13.08.540; Ord. 5816 §II, 2010; Ord. No. 4101 §11, 1980)

SECTION III: General Repealer Section: Any ordinance or parts thereof inconsistent herewith are hereby repealed.

SECTION IV: Severability: Should any part or parts of this ordinance be found or held to be invalid by any court of competent jurisdiction, then the remaining part or parts shall be severable and shall continue in full force and effect.

SECTION V: Record of Passage:

- A. Bill Number 5816 was introduced and read the first time this 26th day of April 2010.
- B. Bill Number 5816 as amended, was introduced and read the second time this 7th day of June 2010.
- C. Bill Number 5816 was read the third time and discussed this 15th day of June 2010, and voted as follows:

Bohannon, _____ , Rogers, _____ , Hedrick, _____ ,

Conway, _____ , Teachout, _____ , Harris, _____ ,

Pullen, _____ , thereby being _____

, and

becoming ordinance 5816.

C. Ordinance 5816 shall be in full force and effect from and after July 15, 2010.

Jerry Pullen, Mayor _____

Approved as to form
Chuck Leible, City Counselor _____

Seal / Attest
Carroll Couch, City Clerk _____



Appendix D

Ordinance # 6016 on Illicit Discharge & Detection

THIS BILL AS APPROVED SHALL BECOME ORDINANCE NUMBER 6016 CREATING REGULATIONS GOVERNING DISCHARGES INTO THE STORM WATER DRAINAGE SYSTEM.

NOW THEREFORE BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SIKESTON, MISSOURI AS FOLLOWS:

Chapter 701

ARTICLE I

ILLICIT STORMWATER DISCHARGE CONTROL REGULATIONS

This Article shall be known as the Sikeston, Missouri illicit discharge control regulations and may be cited as “illicit StormWater discharge control regulations” or “regulations”.

SECTION 701.000. PURPOSE AND INTENT The purpose and intent of this Article is to ensure the health, safety, and general welfare of citizens, and protect and enhance the water quality of watercourses and water bodies in a manner pursuant to and consistent with the Federal Clean Water Act (33 U.S.C. §1251 et seq.) by reducing pollutants in storm water discharges to the maximum extent practicable and by prohibiting non-storm water discharges to the storm drain system.

SECTION 701.010. DEFINITIONS. The terms used in this Article shall have the following meanings:

- (a) **Best Management Practices.** Activities, practices, and procedures to prevent or reduce the discharge of pollutants directly or indirectly to the municipal storm drain system and waters of the United States. Best Management Practices include but are not limited to: treatment facilities to remove pollutants from storm water; operating and maintenance procedures; facility management practices to control runoff, spillage or leaks of non-storm water, waste disposal and drainage from materials storage; erosion and sediment control practices; and the prohibition of specific activities, practices, and procedures and such other provisions as the City determines appropriate for the control of pollutants.
- (b) **City.** The City of Sikeston.
- (c) **Clean Water Act.** The Federal Water Pollution Control Act (33 U.S.C § 1251 et seq.), and any subsequent amendments thereto.
- (d) **Construction Activity.** Activities subject to NPDES Construction Permits. These include construction projects resulting in land disturbance of 1 acre or more. Such activities include but are not limited to clearing and grubbing, grading, excavating and demolition.

- (e) Hazardous Materials. Any material, including any substance, waste, or combination thereof, which because of its quality, concentration or physical, chemical or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.
- (f) Illegal Discharge. Any direct or indirect non-storm water discharge to the storm drain system, except as exempted in Division II, Section 9 of this chapter.
- (g) Illicit Connections. An illicit connection as defined as either of the following:
 - 1. Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system including but not limited to any conveyances which allow any non-storm water discharge including sewage, process wastewater, and wash water to enter the storm drain system and any connections to the storm drain system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted, or approved by a government agency; or
 - 2. Any drain or conveyance connected from a commercial or industrial land use to the storm drain system which has not been documented in plans, maps, or equivalent records and approved by the City.
- (h) Industrial Activity. Activities subject to NPDES Industrial Permits as defined in 40 CFR, Section 122.26 (b) (14).
- (i) Missouri Clean Water Law. RSMO Chapter 644 and any subsequent amendments thereto.
- (j) National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit. A general, group, or individual permit issued by the U.S. Environmental Protection Agency (EPA) (or by a State under authority delegated pursuant to 33 USC §1342 (b)) that authorizes the discharge of pollutants to waters of the United States.
- (k) Non-Storm Water Discharge. Any discharge to the storm drain system that is not composed entirely of storm water.
- (l) Pollutant. Anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter or other discarded or abandoned objects, articles, and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure (included but not limited to sediments, slurries and concrete rinsates) and noxious or offensive matter of any kind.
- (m) Pollution. The human-made or human-induced alteration of the quality of waters by waste to a degree which unreasonably affects, or has the potential to unreasonably affect, either the waters for beneficial uses or the facilities which serve these beneficial uses.
- (n) Premises. Any building, lot, parcel of land, or portion of land whether improved or unimproved including adjacent sidewalks and parking strips.
- (o) Storm Drainage System. Publicly-owned facilities operated by the City by which storm water is collected and/or conveyed, including but not limited to any roads with drainage systems, municipal streets, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and human-made or altered drainage channels, reservoirs, and other drainage structures which are within the City and are not part of a publicly owned treatment works as defined at 40 CFR Section 122.2.
- (p) Storm Water. Any surface flow, runoff and drainage consisting entirely of water from rain storm events.

- (q) Waters of the United States. Surface watercourses and water bodies as defined at 40 CFR § 122.2 including all natural waterways and definite channels and depressions in the earth that may carry water, even though such waterways may only carry water during rains and storms and may not carry storm water at and during all times and seasons.

SECTION 701.020. APPLICABILITY. This Article shall apply to all water entering the storm drainage system generated on any developed and undeveloped lands lying within the City of Sikeston including any amendments or revisions thereto.

SECTION 701.030. RESPONSIBILITY FOR ADMINISTRATION. The City shall administer, implement and enforce the provisions of this Article. Any powers granted or duties imposed upon the City may be delegated in writing by the City Council to persons or entities acting in the beneficial interest of or in the employ of the City.

SECTION 701.040. RESPONSIBILITY FOR ADMINISTRATION. Should any part or parts of this ordinance be found or held to be invalid by any court of competent jurisdiction, the remaining part or parts shall be severable and shall continue in full force and effect.

SECTION 701.050. REGULATORY CONSISTENCY. This Article shall be construed to assure consistency with the requirements of the Clean Water Act and Missouri Clean Water Act and acts amendatory thereof or supplementary thereto, or any applicable implementing regulations.

SECTION 701.060. ULTIMATE RESPONSIBILITY OF DISCHARGER. The standards set forth herein and promulgated pursuant to this Article are minimum standards; therefore this Article does not intend or imply that compliance by any person will ensure that there will be no contamination, pollution nor unauthorized discharge of pollutants into waters of the U.S. caused by said person. This Article shall not create liability on the part of the City of Sikeston, or any agent or employee thereof for any damages that result from any discharger's reliance on this Article or any administrative decision lawfully made thereunder.

ARTICLE II

Discharge Prohibitions

SECTION 701.200. PROHIBITION OF ILLEGAL DISCHARGES. No person shall discharge or cause to be discharged into the municipal storm drainage system or watercourses any materials, including but not limited to pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards, other than storm water. The commencement conduct or continuance of any illegal discharge to the storm drainage system is prohibited except as described as follows:

- (a) Discharges from the following activities will not be considered a source of pollutants to the storm drainage system and to waters of the U.S. when properly managed to ensure that no potential pollutants are present, and therefore they shall not be considered illegal discharges unless determined to cause a violation of the provisions of the Clean Water Act, or this ordinance: potable water line flushing; uncontaminated pumped groundwater and other discharges from potable water sources; landscape irrigation and lawn watering; diverted stream flows; rising groundwater; groundwater infiltration to the storm drainage system; uncontaminated foundation and footing drains; uncontaminated water from crawl space pumps; air conditioning condensation; uncontaminated roof drains; springs; individual residential and mobile car washing; flows from riparian habitats and wetlands; dechlorinated swimming pool discharges; street wash waters; and flows from firefighting.
- (b) The prohibition shall not apply to any non-storm water discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered by the State of Missouri under the authority of the Federal Environmental Protection Agency, provided that the discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations and provided that written approval has been granted by the City of Sikeston for any discharge to the storm drainage system.
- (c) The City of Sikeston may exempt in writing other non-storm water discharges which are not a source of pollutants to the storm drainage system nor waters of the U.S.

SECTION 701.210. PROHIBITION OF ILLICIT CONNECTIONS.

- (a) The construction, use, maintenance or continued existence of illicit connections to the storm drainage system is prohibited.
- (b) The prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.

SECTION 701.220. WASTE DISPOSAL PROHIBITIONS. No person shall throw, deposit, leave, maintain, keep, or permit to be thrown, deposited, left or maintained, in or upon any public or private property, driveway, parking area, street, alley, sidewalk, component of the storm drainage system, or water of the

U.S., any refuse, rubbish, garbage, litter, or other discarded or abandoned objects, articles, and accumulations, so that the same may cause or contribute to pollution. Wastes deposited in streets in proper waste receptacles for the purposes of collection are exempted from this prohibition.

SECTION 12- DISCHARGES IN VIOLATION OF INDUSTRIAL OR CONSTRUCTION ACTIVITY NPDES STORM WATER DISCHARGE PERMIT. Any person subject to an industrial or construction activity NPDES storm water discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the City prior to or as a condition of a subdivision map, site plan, building permit, or development or improvement plan; upon inspection of the facility; during any enforcement proceeding or action; or for any other reasonable cause.

ARTICLE III

Regulations and Requirements

SECTION 701.300. REQUIREMENT TO PREVENT, CONTROL AND REDUCE STORMWATER POLLUTANTS.

- (a) **General Discharge.** Dischargers shall provide, at their own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the storm drainage system. Further, any person responsible for a property or premises, which is, or may be the source of an illicit or high-risk discharge or has an illicit connection, may be required to implement, at said person's expense, Best Management Practices to prevent the further discharge of pollutants to the storm drainage system. For those facilities covered by an NPDES permit, compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of StormWater associated with industrial activity, to the extent practicable, shall be deemed compliant with the provisions of this section.
- (b) **Contractors for City Services.** The City will develop a *StormWater Quality Plan* listing minimum Best Management Practices for all contractors for City services. With each contract for City services, the contractor will sign a statement of compliance saying they will implement all applicable BMPs in the *StormWater Quality Plan* for any of the contractor's operations, premises or facilities within the City Limits. Contractions for City services are also subject to Section 13(a).

SECTION 701.310. REQUIREMENT TO ELIMINATE ILLEGAL DISCHARGES. Notwithstanding the requirements of Division IV, Section 20 herein, the City may require by written notice that a person responsible for an illegal discharge immediately, or by a specified date, discontinue and discharge and, if necessary, take measures to eliminate the source of the discharge to prevent the occurrence of future illegal discharges.

SECTION 701.320. REQUIREMENT TO ELIMINATE OR SECURE APPROVAL FOR ILLICIT CONNECTIONS.

- (a) The City may require by written notice that a person responsible for an illicit connection to the storm drainage system comply with the requirements of this Article to eliminate or secure approval for the connection by a specified date, regardless of whether or not the connection or discharges to it had been established or approved prior to the effective date of this Article.
- (b) If, subsequent to eliminating a connection found to be in violation of this Article, the responsible person can demonstrate that an illegal discharge will no longer occur, said person may request City approval to reconnect. The reconnection or reinstallation of the connection shall be at the responsible person's expense.

SECTION 701.330. WATERCOURSE PROTECTION. Every person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the watercourse within the property reasonably free of trash, debris, excessive vegetation, and other obstacles originating from said property that would pollute, contaminate, or significantly retard the flow of water through the watercourse. If the City determines the trash, debris, excessive vegetation and other obstacles are not being effectively removed, the City can take action to remedy. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse. The owner or lessee shall not remove healthy bank vegetation beyond that actually necessary for the maintenance, nor remove said vegetation in such a manner as to increase the vulnerability of the watercourse to erosion. The property owner shall be responsible for maintaining and stabilizing that portion of the watercourse that is within their property lines in order to protect against erosion and degradation of the watercourse originating or contributed from their property.

SECTION 701.340. REQUIREMENT TO REMEDIATE. Whenever the City finds that a discharge of pollutants is taking place or has occurred which will result in or has resulted in pollution of storm water, the storm drainage system, or water of the U.S., the City may require by written notice to the owner of the property and/or the responsible person that the pollution be remediated and the affected property restored within a specified time pursuant to the provisions of Section 22 through 25 below.

SECTION 701.350. REQUIREMENT TO MONITOR AND ANALYZE. The City may require by written notice of requirement that any person engaged in any activity and/or owning or operating any facility which

may cause or contribute to storm water pollution, illegal discharges and/or non-storm water discharges to the storm drainage system or waters of the U.S., to undertake at said person's expense such monitoring and analyses and furnish such reports to the City of Sikeston as deemed necessary to determine compliance with this Article.

SECTION 701.360. NOTIFICATION OF SPILLS. Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting or may result in illegal discharges or pollutants discharging into storm water, the storm drainage system or water of the U.S. from said facility, said person shall take any necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of a hazardous material said person shall immediately notify emergency response officials of the occurrence via emergency dispatch services (911). In the event of a release of non-hazardous materials, said persons shall notify the City in person or by phone or facsimile no later than 5:00 p.m. of the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to the City within three (3) business days of the phone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three (3) years.

ARTICLE IV

Inspection and Monitoring

SECTION 701.400. AUTHORITY TO INSPECT. Whenever necessary to make an inspection to enforce any provision of this Article, or whenever the City has cause to believe that there exists, or potentially exists, in or upon any premises any condition which constitutes a violation of this Article, the City's representative may enter such premises at all reasonable times to inspect the same and to inspect and copy records related to storm water compliance. In the event the owner or occupant refuses entry after a request to enter and inspect has been made, the City is hereby empowered to seek assistance from any court of competent jurisdiction in obtaining such entry.

SECTION 701.410. AUTHORITY TO SAMPLE, ESTABLISH SAMPLING DEVICES, AND TEST. During any inspection as provided herein, the City's representative may take any samples and perform any testing deemed necessary to aid in the pursuit of the inquiry or to record site activities.

ARTICLE V

Enforcement

SECTION 701.500. NOTICE OF VIOLATION. Whenever the City finds that a person has violated a prohibition or failed to meet a requirement of this Article, the Director may order compliance by written notice of violation to the responsible person. Such notice may require without limitation:

- (a) The performance of monitoring, analyses and reporting;
- (b) The elimination of illicit connections or discharges;
- (c) That violating discharges, practices, or operations shall cease and desist;
- (d) The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property; and
- (e) Payment of a fine to cover administrative and remediation costs; and
- (f) The implementation of source control or treatment BMPs.

If abatement of a violation and/or restoration of affected property is required, the notice shall set forth a deadline within which such remediation or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work will be done by the City or a contractor designated by the City and the expense thereof shall be charged to the violator pursuant to Section 24 below.

SECTION 701.510. APPEAL. Notwithstanding the provisions of Section 26 below, any person receiving a Notice of Violation under Section 22 above may appeal the determination of the City. The notice of appeal must be received by the City Council within ten (10) days from the date of the Notice of Violation. Hearing on the appeal before the City Council or their designee shall take place within thirty (30) days from the date of City's receipt of the notice of appeal. The decision of the City Council or designee shall be final.

SECTION 701.520. ABATEMENT BY CITY. If the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation, or, in the event of an appeal under Section 23, within thirty (30) days of the decision of the City Council upholding the decision of the City, then the City or a contractor designated by the City shall enter upon the subject private property and is authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful

for any person, owner, agent or person in possession of any premises to refuse to allow the City or designated contractor to enter upon the premises for the purposes set forth above.

SECTION 701.530. CHARGING COST OF ABATEMENT/LIENS. Within thirty (30) days after abatement of the nuisance by City, the City shall notify the owner of the property of the cost of abatement, including administrative costs. The property owner may file a written protest objecting to the amount of the assessment with the City Clerk within fifteen (15) days. The City Clerk shall set the matter for public hearing by the City Council. The decision of the City Council shall be set forth by resolution and shall be final.

If the amount due is not paid within ten (10) days of the decision of the City Council or the expiration of the time in which to file an appeal under this Section, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment. A copy of the resolution shall be turned over to the County Assessor so that the assessor may enter the amounts of the assessment against the parcel as it appears on the current assessment roll, and the tax collector shall include the amount of the assessment on the bill for taxes levied against the parcel of land.

SECTION 701.540. URGENCY ABATEMENT. The City is authorized to require immediate abatement of any violation of this Article that constitutes an immediate threat to the health, safety or well-being of the public. If any such violation is not abated immediately as directed by the City, the City of Sikeston is authorized to enter onto private property and to take any and all measures required to remediate the violation. Any expense related to such remediation undertaken by the City of Sikeston shall be fully reimbursed by the property owner/or responsible party. Any relief obtained under this section shall not prevent City from seeking other and further relief authorized under this Article.

SECTION 701.550. VIOLATIONS. It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Article. A violation of or failure to comply with any of the requirements of this Article shall constitute a misdemeanor and shall be punished as set forth in Section 100.200 of the City Code.

SECTION 701.560. COMPENSATORY ACTION. In lieu of enforcement proceedings, penalties, and remedies authorized by this Article, the City may impose upon violator alternative compensatory actions, such as storm drain stenciling, attendance at compliance workshops, creek cleanup, etc.

SECTION 701.570. VIOLATIONS DEEMED A PUBLIC NUISANCE. In addition to the enforcement processes and penalties herein before provided, any condition caused or permitted to exist in violation of any of the provisions of this Article is a threat to public health, safety, and welfare, and is declared and deemed a nuisance, and may be summarily abated or restored by the City at the violator's expense, and/or a civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken by the City.

SECTION 701.580. ACTS POTENTIALLY RESULTING IN A VIOLATION OF THE FEDERAL CLEAN WATER ACT AND/OR MISSOURI CLEAN WATER LAW. Any person who violates any provision of this Article or any provision of any requirement issued pursuant to this chapter, may also be in violation of the Clean Water Act and/or the Missouri Clean Water Law and may be subject to the sanctions of those acts including civil and criminal penalties. Any enforcement action authorized under this Article shall also include written notice to the violator of such potential liability.

SECTION VII- GENERAL REPEALER SECTION. Any ordinance or parts thereof inconsistent herewith are hereby repealed.

SECTION VIII- SEVERABILITY. Should any part or parts of this Ordinance be found or held to be invalid by any court of competent jurisdiction, then the remaining part or parts shall be severable and shall continue in full force and effect.

SECTION IX: Record of Passage:

A. Bill Number 6016 was introduced and read the first time this 4th day of April, 2016.

B. Bill Number 6016 was read the second time and discussed on this 25th day of June, 2016, and was voted as follows:

Depro AYE, Merideth AYE,

Burch AYE, Evans AYE,

Settles AYE, White-Ross AYE, and Gilmore AYE

thereby being Passed, and becoming Ordinance 6016.

C. Ordinance 6016 shall be in full force and effect May 25, 2016.

STEPHEN BURCH, Mayor

Approved as to Form:

CHARLES LEIBLE, City Counselor

SEAL/ATTEST:

CARROLL COUCH, City Clerk

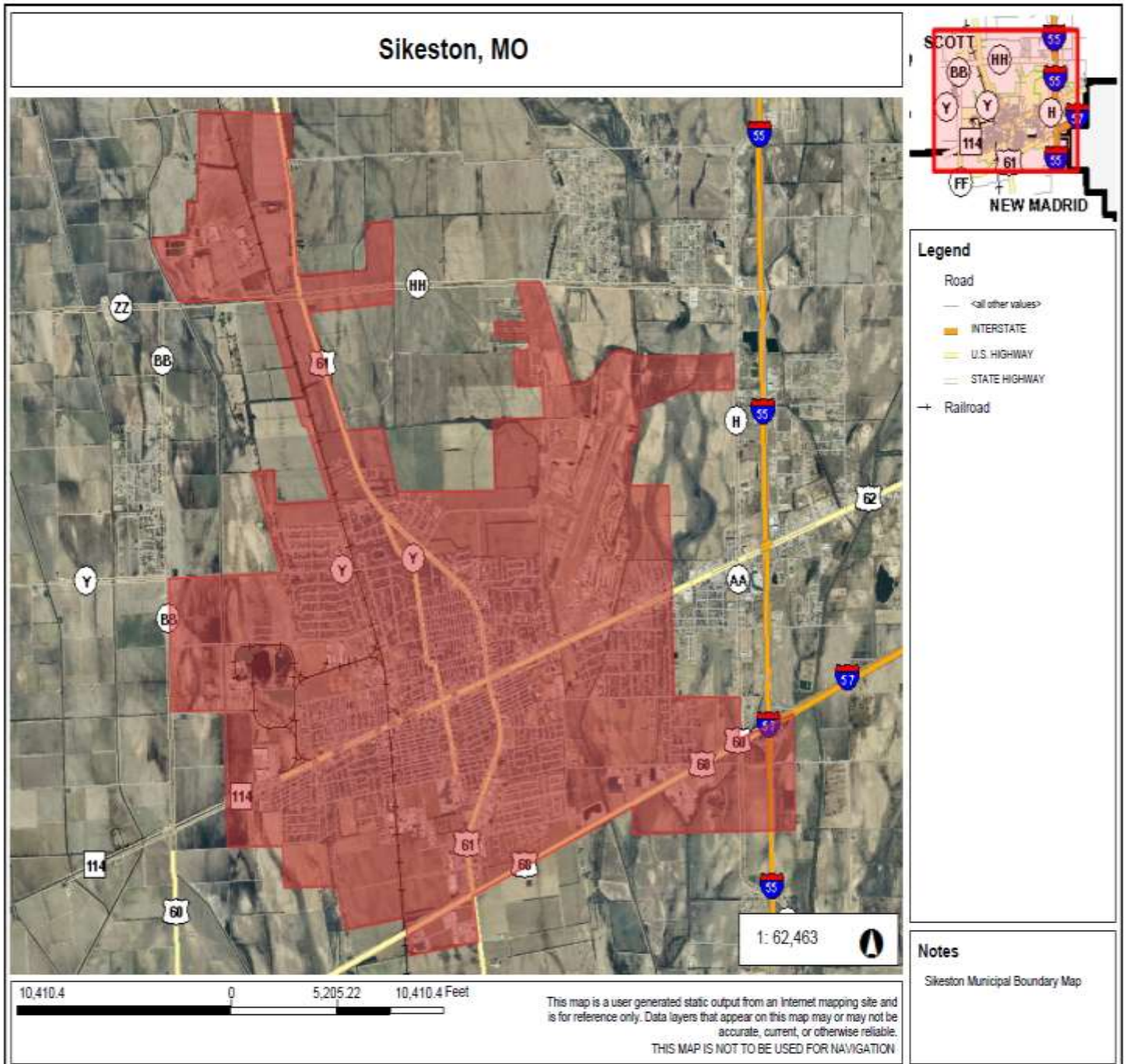


Appendix E

Sikeston`s Municipal Boundary`s Map



Sikeston's Municipal Boundary Map





Appendix F

Sikeston`s Watershed Map

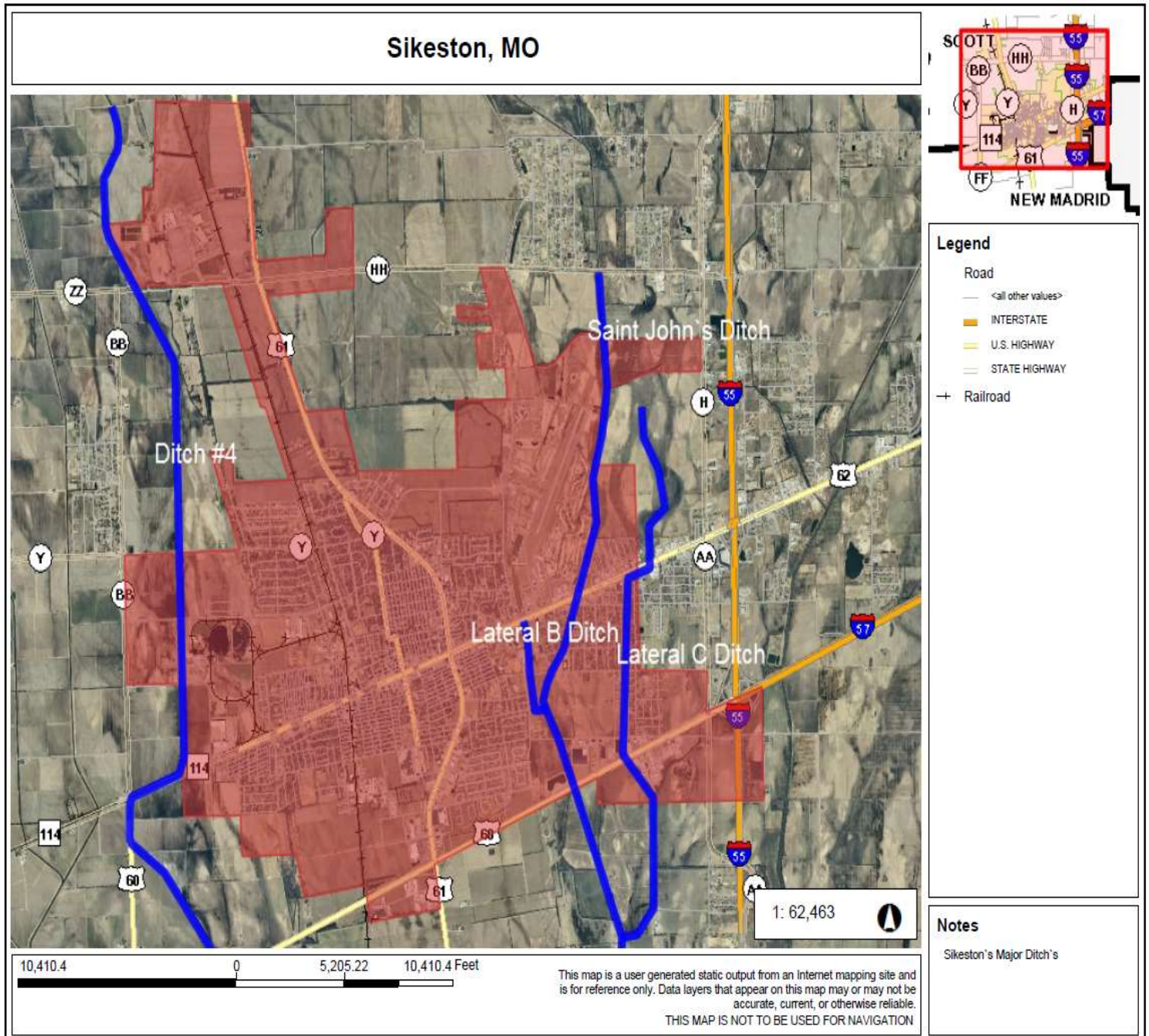


Appendix G

Sikeston`s Major Ditches



Sikeston's Major Ditch's Map





Appendix H

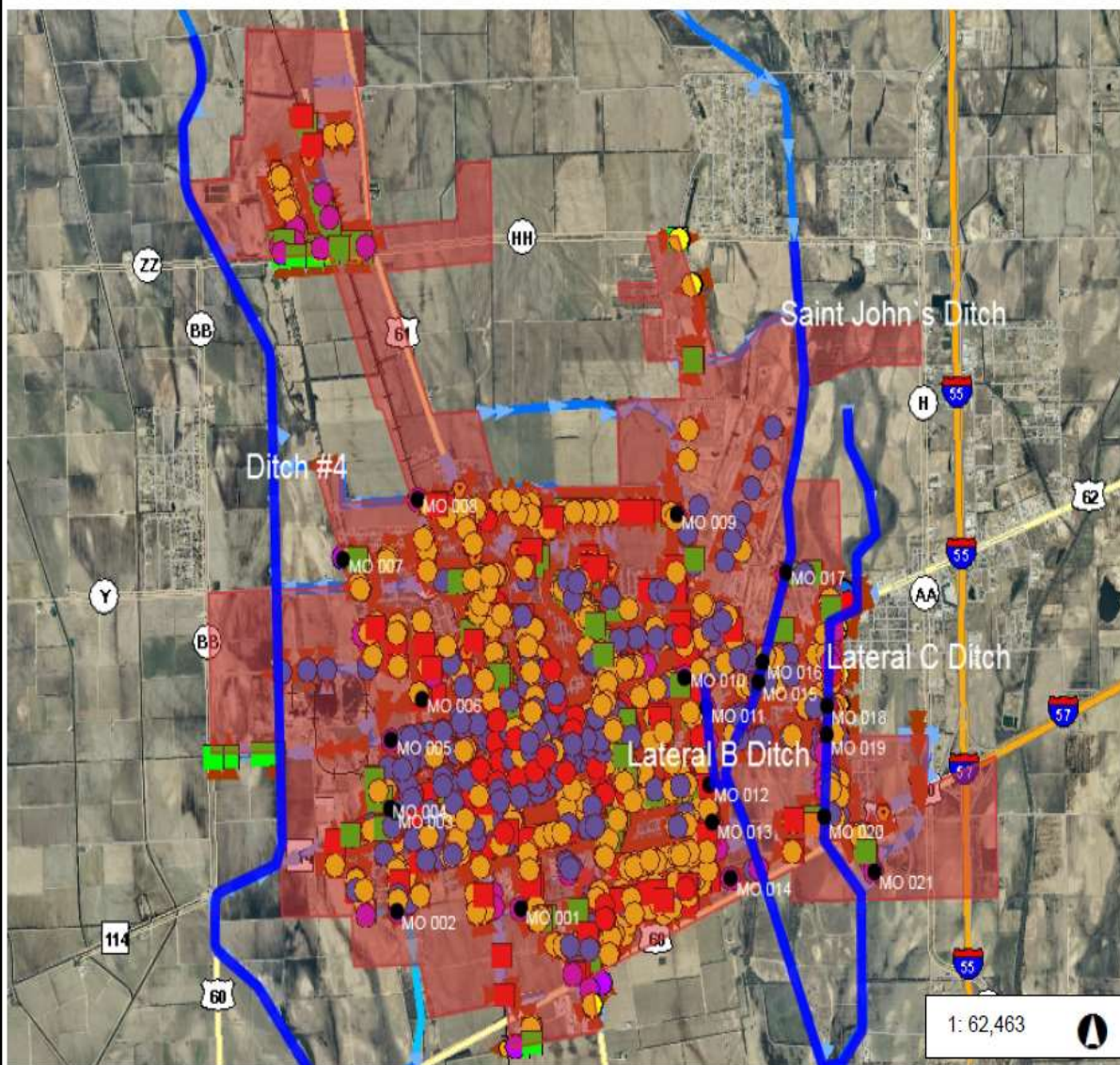
Sikeston`s MS4 with Major Outfalls



Sikeston's MS4 with Major Outfalls

Map

Sikeston, MO



Legend

Storm Feature

- Area Inlet
- Catch Basin
- Curb Inlet
- Grate
- Junction Box
- Manhole
- Not Applicable
- Outfall
- Culvert Point
- Storm Pipe

Open Channel

- <all other values>
- Creek
- Ditch
- Pond
- River
- Swail
- Other

Detention Basin

Reservoir

Road

- <all other values>
- INTERSTATE
- U.S. HIGHWAY
- STATE HIGHWAY

Notes

Sikeston's MS4 with Major Outfalls
Major Outfalls Identified with Black Dot

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION



Appendix I

City of Sikeston Storm Water Runoff Control Inspection Report



Construction Zone Storm Water Inspection Form

Inspection/Permit No. _____

CITY OF SIKESTON Storm Water Runoff Control Inspection Report for Construction Projects

Project Name: _____

Inspector: _____

Inspection Type: Initial

Section	Description	Yes	No	N/A
	General Site Information			
1	A. Contact Person	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B. Construction Plan (on site or other location)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Construction Entrance			
2	A. Effective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B. Streets Clean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Storm Water Discharge From Site			
3	A. Silt Fences entrenched, upright & intact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B. Sediment basins/traps per plan with functional pipe or rock spillway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C. Earthwork properly graded/seeded/mulched	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D. Perimeter Control Measure are adequate & clean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Storm Water System Inlet Protection			
4	A. Storm Sewer Inlets Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B. Fabric, straw, mulch or stone intact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C. Catch basin protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D. Inlet Protection Control Measures Adequate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Stabilization and Protection			
5	A. Swales and Ditches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B. Storm Water Outlets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C. Final Grading/Stabilization in completed areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Water Pumping			
6	A. Protected outlet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Site Details			
7	A. Designated Washout area for Concrete Trucks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B. Dumpster on site for trash disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C. Fuel tanks and liquid chemicals stored safely and protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ALL PROBLEMS OR CONCERNS MUST BE ADDRESSED WITH CORRECTIVE ACTION

Inspection Completed By:

Date:

Inspection Report Distribution

Contractor:

Date:

Building Department: MS4 File; File By:

Date:



Appendix J

City of Sikeston Illicit Discharge Reporting Form



Illicit Discharge Reporting Form



Department of Public Works

Illicit Discharge Reporting Form

Inspector Information

Name:
Date and Time Discharge Detected:

Discharge Information

Owner/ Address:		
Nearest Intersection:		Nearest Outfall:
GPS Location, if Known:	Latitude:	Longitude:

How Long Since Last Rainfall: <input type="checkbox"/> Raining Now <input type="checkbox"/> 0-2 Days <input type="checkbox"/> 3 or More Days		Nature of Discharge or Flow: <input type="checkbox"/> Solid (Continuous) <input type="checkbox"/> Intermittent (Occasionally) <input type="checkbox"/> Pulsing (Fluctuating) <input type="checkbox"/> Transitory (Prior Spill)	
If Possible, Identify the Source of the Discharge <input type="checkbox"/> Pipe Outfall <input type="checkbox"/> Gutter <input type="checkbox"/> Sanitary <input type="checkbox"/> Ditch <input type="checkbox"/> Spill <input type="checkbox"/> Storm Sewer <input type="checkbox"/> Other: _____		Potential for Discharge to Enter Into: <input type="checkbox"/> Ditch/ Water Body <input type="checkbox"/> Retention/ Detention Basin <input type="checkbox"/> Storm Drain <input type="checkbox"/> Other: _____	
Was Water Flow Observed? <input type="checkbox"/> Yes <input type="checkbox"/> No Direct Connection to Pipes/ Inlet? <input type="checkbox"/> Yes <input type="checkbox"/> No		Was a Photo Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Then Attach Photos.	
Describe Odor: <input type="checkbox"/> None <input type="checkbox"/> Musty <input type="checkbox"/> Rotten Eggs (Sulfur) <input type="checkbox"/> Rancid/ Sour Milk <input type="checkbox"/> Sewage <input type="checkbox"/> Gas/ Petroleum <input type="checkbox"/> Cooking Oil <input type="checkbox"/> Other: _____			
Describe Clarity: <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Sheen <input type="checkbox"/> Gray			
Describe Color: <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Brown <input type="checkbox"/> Green <input type="checkbox"/> White <input type="checkbox"/> Other: _____			
Solids/ Floatables: <input type="checkbox"/> Garbage <input type="checkbox"/> Sewage <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Scum <input type="checkbox"/> Vegetation <input type="checkbox"/> Unknown			
Additional Information to Assist in the Investigation (Vegetation Impacts?): _____ Source Origin: <input type="checkbox"/> Agriculture <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial			

Follow Up Investigation

Outfall Location: _____		County: _____	
Inspector: _____		Date: _____	
Odor:	Solids/ Floatables:	Flow:	
Clarity:	Sheen/ Scum:	Source Confirmed?: Yes / No	
Color:	Condition of Vegetation:	Source Confirmed?: Yes / No	
Comments: (Immediate Environmental Concern?) Yes / No			



Appendix K

City of Sikeston Facilities StormWater Pollution Inspection Form



City of Sikeston Facilities Storm Water Pollution Inspection Form



City of Sikeston Facilities StormWater Pollution Inspection Form

Inspector Information

Inspector name:			
Facility Name:			
Date and Time of Inspection:		Nearest Outfall:	
How Long Since Last rainfall: Raining 0-2 Days 3 or More days			
Is the site map current and accurate?	YES	NO	N/A
Is the inventory of activities, materials, and products current?	YES	NO	N/A

Facility Best Management Practices

Vehicle/ Equipment Maintenance area BMP's			
Are maintenance and repair activities conducted indoors?	YES	NO	N/A
Are used vehicle fluids recycled if possible?	YES	NO	N/A
Are materials and wastes stored indoors/ containment system?	YES	NO	N/A
Is equipment cleaned of excessive oil/ grease buildup?	YES	NO	N/A
Are parked vehicles inspected for leaks?	YES	NO	N/A
Are vehicles inspected regularly for leaks and repaired immediately?	YES	NO	N/A
Are employees trained with the sites spill control plan?	YES	NO	N/A
Are onsite generators inspected for leaks?			
Are cleanup materials readily accessible?	YES	NO	N/A
Vehicle Fueling BMP's			
Are all fueling areas free of contaminant/ evidence of leaks and spills?	YES	NO	N/A
Are spill cleanup materials on site or near fueling operations?	YES	NO	N/A
Do mobile fueling units contain spill kits?	YES	NO	N/A
Are fuel contaminated absorbants picked up and disposed of properly?	YES	NO	N/A
Vehicle Washing BMP's			
Is the wash area clearly marked for vehicle washing?	YES	NO	N/A
Is wash water captured and properly disposed of?	YES	NO	N/A
Is there a trash container in the wash area?	YES	NO	N/A
Is engine maintenance conducted in the designated wash area?	YES	NO	N/A
Outdoor Storage BMP's			
Are chemicals stored in original containers and labeled correctly?	YES	NO	N/A
Are materials protected from rainfall and runoff?	YES	NO	N/A
Are materials protected from vehicle collision?	YES	NO	N/A
Are materials contained to prevent from discharging into a storm drain?	YES	NO	N/A
Are cleanup materials readily accessible?	YES	NO	N/A
Building Maintenance BMP's			
Are dumpster areas free of contaminant/ evidence of leaks and spills?	YES	NO	N/A
Do waste containment containers have leak proof lids?	YES	NO	N/A
Are there areas of erosion/ sediment that discharge to storm drains?	YES	NO	N/A
Is pressure washing contained to prevent discharge to storm drains?	YES	NO	N/A
Are brushes and tools properly cleaned over sanitary drains?	YES	NO	N/A
Are paved surfaces free of accumulated sediment/ debris?	YES	NO	N/A
Is there an adequate number of litter receptacles?	YES	NO	N/A
Turf and Landscaping Management BMP's			
Is yard waste and compost materials properly disposed of?	YES	NO	N/A
Are there chemicals applied directly to surface waters?	YES	NO	N/A
Are there erosion controls in place on exposed soils?	YES	NO	N/A
Are all regulations governing the use of herbicides followed?	YES	NO	N/A
Are herbicides stored in a covered shelter?	YES	NO	N/A
Comments:			

Council Letter

Date of Meeting: 17-10-19

Originating Department: Public Works Department

To the Mayor and City Council:

Subject: 1st and 2nd Reading of Emergency Bill #6072, Authorizing the Mayor to execute a contract between the City of Sikeston and the Missouri Highways and Transportation Commission

Attachment(s):

1. Bill # 6072
2. Agreement Project TAP# 5800 (014)

Action Options:

1. 1st and 2nd Readings and Consideration on Emergency Bill #6072, Authorizing the Mayor to Execute a Contract between the City of Sikeston and the Missouri Highways and Transportation Commission
2. Other action Council may deem appropriate

Background:

The purpose of this bill is to approve a Supplemental Agreement between the City of Sikeston and the Missouri Highway and Transportation Commission. The City has remaining STP-Urban funds available in the amount of \$44,752.11 that need to be allocated or it will be lost. We have asked MoDOT to incorporate these funds into the Rail-to-Trail Project TAP # 5800 (014). This supplemental agreement adds these funds to the existing project.

CCO FORM: FS31

Approved: 11/15 (MWH)

Revised: 03/17 (MWH)

Modified:

Scott County

City of Sikeston

Project TAP-5800(014)

CFDA Number: 20.205

CFDA Title: Highway Planning and Construction

Award name/number: TAP-5800(014)

Award Year: 2017

Federal Agency: Federal Highway Administration, Department of Transportation

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
TRANSPORTATION ALTERNATIVES FUNDS
SUPPLEMENTAL AGREEMENT**

THIS SUPPLEMENTAL AGREEMENT is entered into by the Missouri Highways and Transportation Commission (hereinafter, "Commission") and the City of Sikeston (hereinafter, "City").

WITNESSETH:

WHEREAS, on March 27, 2017, the Commission and the City previously entered into a Transportation Alternatives Funds Agreement as to public improvements designated as TAP-5800(014), for the construction of multi-use trail, (hereinafter, "Original Agreement"); and

WHEREAS, the Commission and the City now desire to revise the Original Agreement.

NOW, THEREFORE, in consideration of the mutual covenants, promises and representations contained herein, the parties agree as follows:

(1) REVISION: Paragraph 1, 2 and 16(A) of the Original Agreement are removed and replaced with the following:

(1) PURPOSE: The United States Congress has authorized, in Fixing America's Surface Transportation Act (FAST); 23 U.S.C. §101, §106 and §213; SAFETEA-LU §1404 funds to be used for transportation alternatives activities along with the STP-Urban activities. The purpose of this Agreement is to grant the use of such STP-Urban funds and transportation alternative funds to the City.

(2) LOCATION: The transportation alternatives and STP-Urban funds which are the subject of this Agreement are for the project at the following location:

Along the former Union Pacific Railroad Company rail corridor, which is parallel to MO Highway 114 (Malone Avenue), beginning west of the intersection on Malone Avenue and Scott Street; terminating west of the intersection of Malone Avenue and Main Street. This project includes intersection improvements at Malone Avenue and Main Street.

(16) REIMBURSEMENT: The cost of the contemplated improvements will be borne by the United States Government and by the City as follows:

(A) Any federal funds for project activities shall only be available for reimbursement of eligible costs which have been incurred by City. Any costs incurred by City prior to authorization from FHWA and notification to proceed from the Commission are **not** reimbursable costs. The federal share for this project will be 75 percent not to exceed \$328,313.11. Transportation Alternative Program funds for this project will be \$283,561.00. In addition to the Transportation Alternative Program funds, there will be an additional \$44,752.11 available for use on the project in STP-Urban funds. The calculated federal share for seeking federal reimbursement of participating costs for the herein improvements will be determined by dividing the total federal funds applied to the project by the total participating costs. Any costs for the herein improvements which exceed any federal reimbursement or are not eligible for federal reimbursement shall be the sole responsibility of City. The Commission shall not be responsible for any costs associated with the herein improvement unless specifically identified in this Agreement or subsequent written amendments.

(2) ORIGINAL AGREEMENT: Except as otherwise modified, amended, or supplemented by this Supplemental Agreement, the Original Agreement between the parties shall remain in full force and effect and shall extend and apply to this Supplemental Agreement as if fully written in this Supplemental Agreement.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties have entered into this Agreement on the date last written below.

Executed by the City this _____ day of _____, 2017.

Executed by the Commission this _____ day of _____, 2017.

MISSOURI HIGHWAYS AND
TRANSPORTATION COMMISSION

CITY OF SIKESTON

By _____

Title: _____

Title: _____

ATTEST:

ATTEST:

Secretary to the Commission

By _____

Title: _____

Approved as to Form:

Approved as to Form:

Commission Counsel

Title: _____

Ordinance No.: _____

Council Letter

Date of Meeting: 17-10-19

Originating Department: Public Works

To the Mayor and City Council:

Subject: Briefing, Scoreboards for High School Softball and Soccer Programs

Attachments:

1. Cost Matrix for the High School Soccer, High School Softball, and High School Baseball Scoreboards
2. Sample Scoreboard Pictures

Action Options:

1. Briefing Only
2. Other action Council may deem appropriate

Background:

On Wednesday, August 23, 2017 Parks and Recreation Director Dustin Care, Public Works Director Jay Lancaster, Councilmember Brian Self, and Sikeston Athletic Director Andy McGill met with representatives from Daktronics to discuss options and pricing for the purchase of new scoreboards at the Recreation Complex for the High School Softball and High School Soccer fields. There was also a discussion about purchasing a new scoreboard for the High School Baseball Field located at VFW Stadium.

Jay Lancaster and Dustin Care met with City Manager Jonathan Douglass on Tuesday, September 19th and informed him about what had been discussed at the meeting.

The need for replacing these scoreboards is essential. The time feature doesn't work well on the soccer scoreboard while the softball scoreboard is the oldest scoreboard in use and the Parks Department provides monthly maintenance replacing bulbs and fixing electrical issues.

The scoreboard for VFW is in dire need of replacing. The Parks Department typically goes to VFW to work on the scoreboard three times a week. We replace digits for the scoreboard as needed and fix other electrical issues. The scoreboard works until the 5th inning during most games and then it completely shuts off. This occurred almost every home game and while the High School was hosting district playoff games, the scoreboard completely shut off. We dedicated

two workers the entire day to fixing the scoreboard the day of the District championship game and had them there during the game as well to try to prevent problems that might occur. The scoreboard eventually failed again around the 5th inning of the game.

The Parks and Recreation Department currently has budgeted \$9,000 for a replacement scoreboard at the High School Softball Field and \$5,000 to replace the High School Soccer scoreboard. There is no money budgeted this fiscal year for purchasing a new scoreboard at VFW Stadium. The original budgeted amount was for a basic scoreboard model and freight for the softball and soccer fields.

There are some savings from other Capital Improvement line items that we could potentially use to cover the costs of the scoreboards. The first option is to spend the additional \$9,000 already budgeted in the scoreboard line item and the replacement of the field lights for Field #5 and Field #7 is expected to fall \$15,000 - \$19,000 under budget. A second option is that High School softball is played during the fall, so there is the possibility that the purchase of a new scoreboard could wait until FY19. It would be installed and running before the high school softball season starts. The final option would be a cost share between the Parks and Recreation Department, Sikeston High School, and the PRG who oversee the daily maintenance operations of VFW Stadium.

A basic scoreboard model for the High School Softball Field is estimated at \$10,064.00 with a freight charge of 895.00, the cost for the High School Soccer Scoreboard is estimated at \$4816.00 with a freight charge of \$540.00, and the cost for the High School Baseball Scoreboard is estimated at \$15603.00 with a freight charge of 995.00. There are additional features that can be added to each scoreboard. One option is to add sponsor panels at the bottom of each scoreboard that can be sold to businesses as a source of revenue. Other options include either an Arch Truss or an Accent Dome with a Non-Backlit ID Panel with the Sikeston Bulldog team logo and a Team Name Message Center which is an optional LED display which can be included in a scoreboard to show custom home and guest team names in place of vinyl captions.

The attachment shows a cost matrix of the three scoreboards and the prices of all the additional options.

Team Scoreboard	Base Price	Sponsor Panel	Arch Truss	Accent Dome/ID Panel	Team Message Center	Freight	Total
High School Baseball	\$15,603.00	\$2,426.00	\$6,413.00	\$2,606.00	\$2,426.00	\$995.00	\$30,469.00
High School Softball	\$10,064.00	\$1,755.00	\$5,036.00	\$2,223.00	\$2,678.00	\$895.00	\$22,651.00
High School Soccer	\$4,816.00	\$729.00	\$2,966.00	\$1,809.00	N/A	\$540.00	\$10,860.00

SIKESTON BULLDOGS

GUEST PITCHES											HOME PITCHES		
110											102		
BALL	STRIKE	OUT											
2	1	1											
GUEST	1	0	0	0	0	1	0	0	0	0	2	4	1
HOME	0	0	2	0	1	3	0	0	0	0	6	12	0

SPONSOR

- Overall Dimensions
14'0" high x 25'0" wide
- Accent Truss
DA-1001-25
4'0" high x 25'0" wide
- Baseball Scoreboard
BA-2125-R-PV
7'0" high x 25'0" wide
- Non-Backlit Sponsor Panel
(below scoreboard)
3'0" high x 25'0" wide

ALL DIMENSIONS ARE APPROXIMATE

SIKESTON PARK & RECREATION SIKESTON, MO

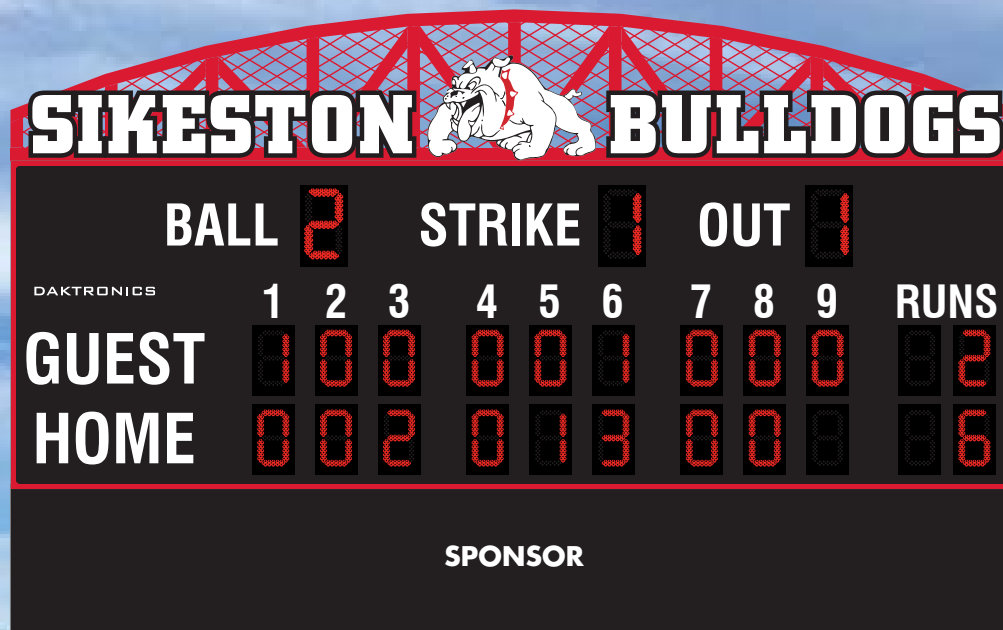
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- Overall Dimensions
12'6" high x 20'0" wide
- Accent Truss
DA-1001-20
3'0" high x 20'0" wide
- Baseball Scoreboard
BA-2030-RPV
6'6" high x 20'0" wide
- Non-Backlit Sponsor Panel
(below scoreboard)
3'0" high x 20'0" wide

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SIKESTON PARK & RECREATION SIKESTON, MO

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- Overall Dimensions
14'2" high x 20'0" wide
- Accent Dome
DA-1202
2'8" high x 8'10" wide
- Non-Backlit ID Panel
2'0" high x 20'0" wide
- Baseball Scoreboard
BA-2030-R-PV
6'6" high x 2'0" wide
- Non-Backlit Sponsor Panel
(below scoreboard)
3'0" high x 20'0" wide

ALL DIMENSIONS ARE APPROXIMATE

SIKESTON PARK & RECREATION SIKESTON, MO

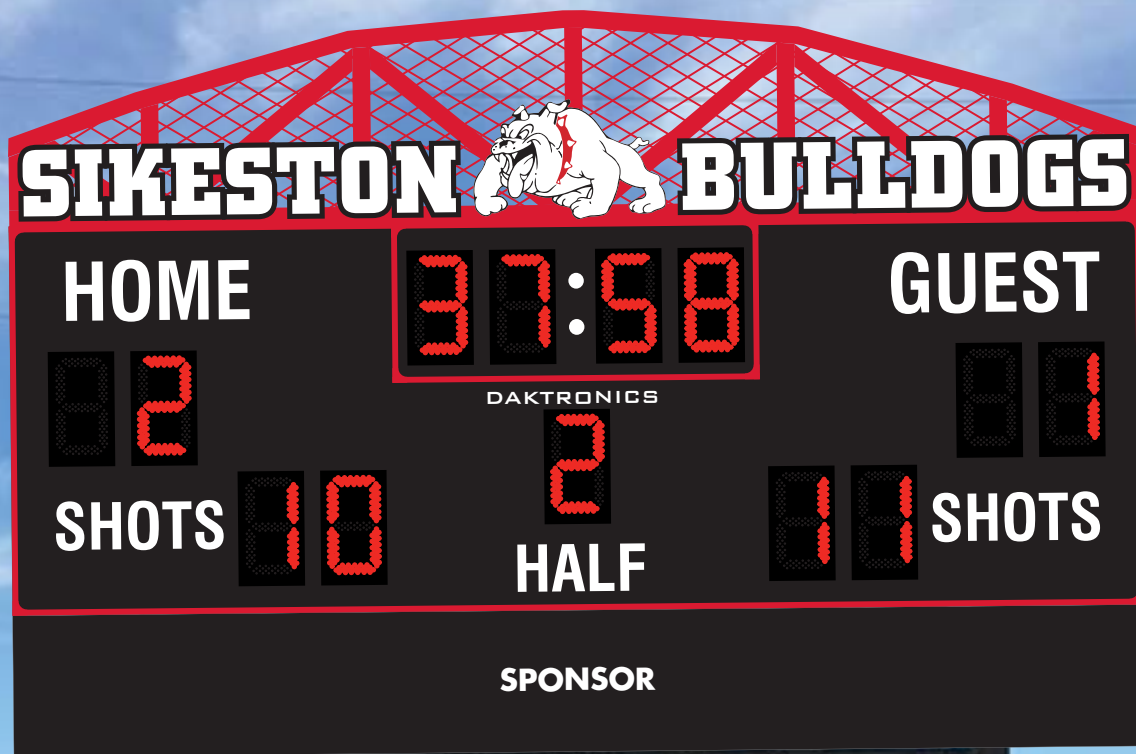
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- Overall Dimensions
10'6" high x 16'0" wide

- Accent Truss
DA-1001-16
3'0" high x 16'0" wide

- Soccer Scoreboard
SO-2008-RPV
5'6" high x 16'0" wide

- Non-Backlit Sponsor Panel
(below scoreboard)
2'0" high x 16'0" wide

Home Oil Propane

Sikeston, MO

471-2728

Bringing the best since 1957

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- Overall Dimensions
11'8" high x 16'0" wide
- Accent Dome
DA-1202
2'8" high x 8'10" wide
- Non-Backlit ID Panel
1'6" high x 16'0" wide
- Soccer Scoreboard
SO-2008-RPV
5'6" high x 16'0" wide
- Non-Backlit Sponsor Panel
(below scoreboard)
2'0" high x 16'0" wide

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- Overall Dimensions
8'0" high x 12'0" wide
- Accent Truss
DA-1001-12
2'0" high x 12'0" wide
- Soccer Scoreboard
SO-918-R-PV
4'0" high x 12'0" wide
- Non-Backlit Sponsor Panel
(below scoreboard)
2'0" high x 12'0" wide

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- Overall Dimensions
10'2" high x 12'0" wide
- Accent Dome
DA-1202
2'8" high x 8'10" wide
- Non-Backlit ID Panel
1'6" high x 12'0" wide
- Soccer Scoreboard
SQ-918-R-PV
4'0" high x 12'0" wide
- Non-Backlit Sponsor Panel
(below scoreboard)
2'0" high x 12'0" wide

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SIKESTON PARK & RECREATION SIKESTON, MO

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