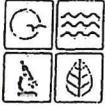




2021 MS4 ANNUAL REPORT

Prepared by Kirby Dieterman
Stormwater Coordinator



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM
**MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)
 STORMWATER MANAGEMENT PLAN REPORT**

FOR OFFICE USE ONLY

PROJECT ID NUMBER

DATE RECEIVED

Part A – MS4 PERMIT HOLDER INFORMATION

1. MS4 NAME City of Branson, Missouri		2. NPDES PERMIT NUMBER MOR1000093		3. MS4 UNIQUE ID NO.	
4. ADDRESS 110 West Maddux Street		5. CITY Branson		6. STATE MO	7. ZIP CODE 65616
8. TELEPHONE NUMBER WITH AREA CODE 417-243-2728		9. EMAIL kdieterman@bransonmo.gov			

10. NAME OF MS4 CONTACT PERSON
Kirby Dieterman, MS-4 Coordinator

11. Have any areas of the MS4 been added or removed from the MS4 jurisdiction due to annexation or other legal means since the most recent permit application (renewal, new, modification), or most recent MS4 stormwater management plan report?

Yes No

If yes, please include a map along with a brief description as an attachment.

Part B – REPORTING PERIOD

1. Is your MS4 subject to a TMDL?

Yes No

If yes, you are required to submit the MS4 report annually. Reports are due Feb. 28 each year. For the first reporting period, the beginning date will be June 13, 2016, and the ending date will be Dec. 31, 2016. All other annual reports shall cover the reporting period of Jan. 1 to Dec. 31 each year.

2. Is your MS4 new permitted (i.e., is this your first MS4 permit)?

Yes No

If yes, you are required to submit the MS4 stormwater management plan report annually. Reports are due Feb. 28 each year. For the first reporting period, the beginning date will be the date of issuance of the permit and the ending date will be Dec. 31, 2016. All other annual reports shall cover the reporting period of Jan. 1 to Dec. 31 each year.

3. Is your MS4 a previously permitted MS4 and not subject to a TMDL?

Yes No

If yes, you are required to submit the MS4 stormwater management plan report biennially (i.e., once every two years). Reports are due Feb. 28 every odd year. The first report will be due February 2017, and will cover the reporting period from June 13, 2016, to Dec. 31, 2016. All other reports shall cover the reporting period of Jan. 1 of the first year to Dec. 31 of the second year.

4. If you are part of a co-permitted MS4 permit, submit combined MS4 stormwater management plan reports, and one or more of the co-permitted MS4s have annual reporting based on the above criteria, then submit your MS4 stormwater management plan report annually by Feb. 28 of each year.

If you are part of a co-permitted MS4 permit and do not submit combined MS4 stormwater management plan report, then each MS4 co-permittee will submit their MS4 stormwater management plan report based on the above criteria.

5. Reporting Period:

BEGINNING: 2016

ENDING: 2021

Part C -- STORMWATER MANAGEMENT PLAN REPORT PROGRESS AND COMPLIANCE

As an attachment, please provide information for each of the items below. Provide informative data, success stories, and experiences that support the successful implementation of your stormwater management plan report.

1. Describe the status of compliance with permit conditions for the permitted MS4.
2. Provide information regarding the progress toward achieving the statutory goal of reducing the discharge of pollutants to the maximum extent practicable to the MS4.
3. If another governmental entity implements any best management practice or minimum control measure, please provide the following:
 - a. Name of the government entity;
 - b. Name of the primary contact for the government entity;
 - c. Contact information (i.e., address, city, ZIP code, state, and phone number); and
 - d. Specific best management practices or minimum control measures being implemented by the government entity.

It is the responsibility of the permittee to provide all information under this report regardless if best management practices or minimum control measures are being implemented by another governmental entity. If a complete minimum control measure is being implemented by an alternative governmental entity, then only indicate the best management practice under the minimum control measure.

4. Provide a summary of any stormwater activities and known construction activities that will be covered under the authority of the MS4 permit that are scheduled to begin during the next reporting period.
5. Provide a description of any changes to the stormwater management plan report, best management practices, measurable goals, and the iterative process that have occurred during the covered reporting period.
6. Provide a list of best management practices that were evaluated during the covered reporting period, and provide information on how the best management practice was determined effective.
 - a. If any of the best management practices were determined to be ineffective, provide a summary on how the ineffective best management practice was resolved.
7. If any water samples were collected and analyzed during the covered reporting period by the permitted MS4 or on behalf of the permitted MS4, please complete Part D – Water Sample(s) Analysis.

Part D – WATER SAMPLE(S) ANALYSIS

PARAMETER OR INDICATOR	FREQUENCY	RESULT	DRY WEATHER SAMPLE?	WET WEATHER SAMPLE?
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

1. Are any of the parameters being sampled due to the MS4 being subject to an established or approved Total Maximum Daily Load?
 Yes No
 If yes, please indicate the parameter/pollutant.

2. Does the data support water quality attainment or support trend data toward water quality attainment?
 Yes No
 If yes, please describe.

Part E – TOTAL MAXIMUM DAILY LOAD (TMDL) ASSUMPTIONS AND REQUIREMENTS ATTAINMENT PLAN

1. Is your MS4 subject to an established or approved TMDL? If no, please indicate "No" below and do not complete any other portion of the TMDL Assumptions and Requirements Attainment Plan portion of this report.

Yes No

2. Has your TMDL Assumptions and Requirements Attainment Plan been completed and submitted? If no, please provide a summary as an attachment on the progress toward submitting and implementing the TMDL Assumptions and Requirements Attainment Plan.

Yes No

3. Has your TMDL Assumptions and Requirements Attainment Plan received approval from the department? If yes, please provide a summary of the status of the plan and include implementation status of identified best management practices and measurable goals along with any changes to best management practices or measurable goals (if applicable).

Yes No

4. Does the TMDL Assumptions and Requirements Attainment Plan incorporate Integrated Planning? If yes, please provide a summary of the status of the Integrated Plan.

Yes No

PART F – SUBMIT REPORT TO:

Missouri Department of Natural Resources
 Water Protection Program
 MS4 Program Coordinator
 P.O. Box 176
 Jefferson City, MO 65102-0176

PART G - CERTIFICATION

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

SIGNATURE OF PERMITTEE/(LEGALLY RESPONSIBLE PERSON)



NAME (PRINTED OR TYPED)

Kirby Dieterman

DATE SIGNED

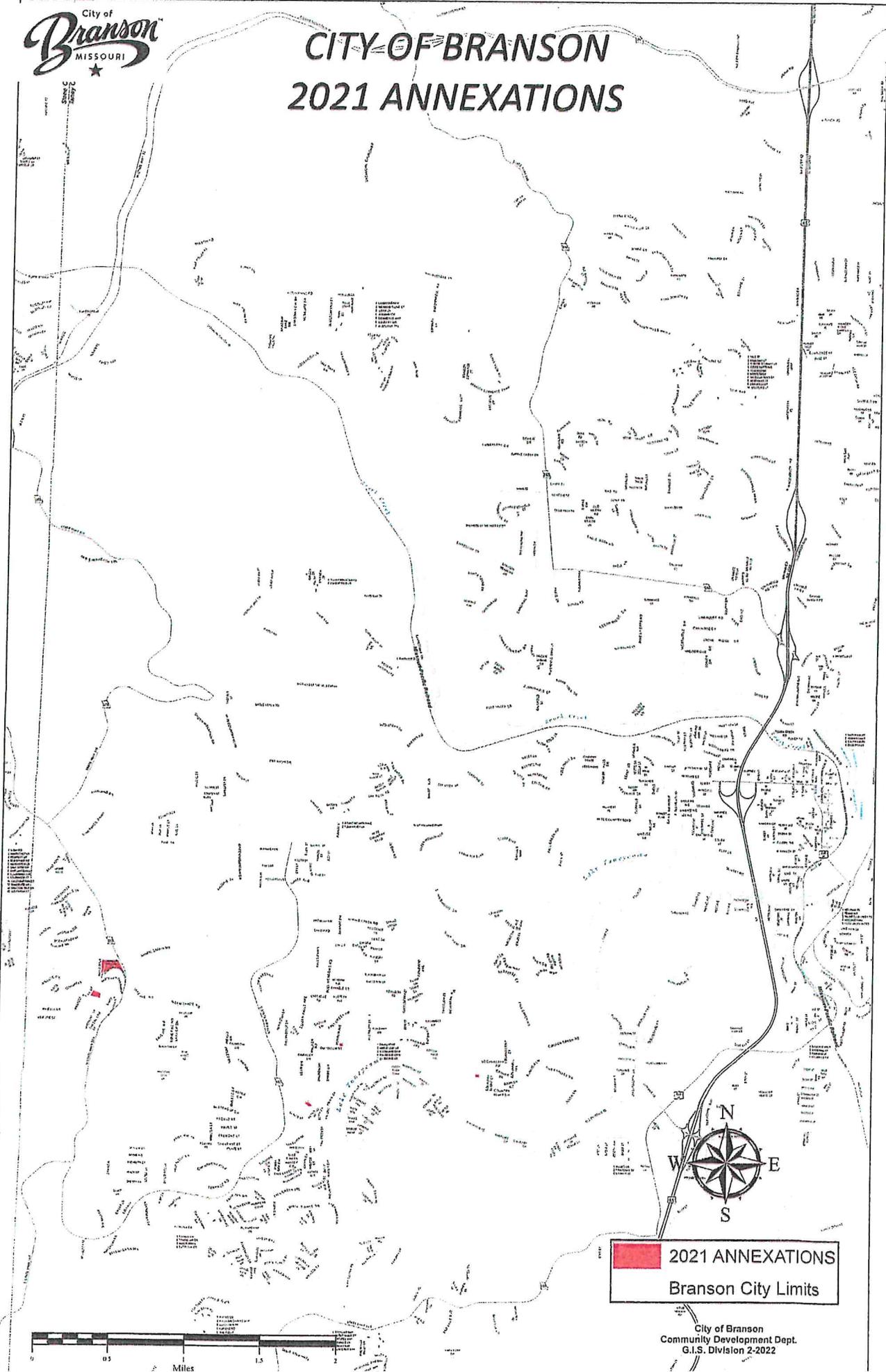
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TITLE

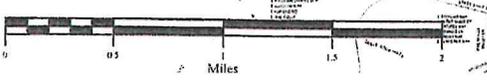
Ms-4 Coordinator



CITY OF BRANSON 2021 ANNEXATIONS



 2021 ANNEXATIONS
 Branson City Limits



MO Form 780-1846 (Stormwater Annual Report – Small MS4s Permits)

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MO Form 780-2049 (Stormwater Annual Report – Small MS4s Permits Addendum – Water Quality Program Assessment)

Executive Summary:

The City of Branson received its MS-4 Permit in November of 2016. We are currently in our fourth year of this permit. The Stormwater coordinator is responsible for implementing and maintaining the MS-4 program here in Branson. At this time, the City's stormwater program is primarily funded through the transportation fund.

The fifth year of our permit has included many advances towards improving the water quality within the boundaries of our city. Staff has seen an increase in use of the necessary BMP's during construction, our staff is more aware of the importance of stormwater quality.

The purpose of this report is to provide information related to the efforts of the City of Branson to reduce non-point source pollution through public education and participation, illicit discharge detection and elimination, construction site runoff control, post-construction runoff control and good housekeeping in municipal operations. It is the City's intent to be compliant to the Maximum Extent Possible with the state and federal requirements set forth under NPDES Phase II. A summary matrix is enclosed which outlines the MCM's completed this fourth year of the permit.

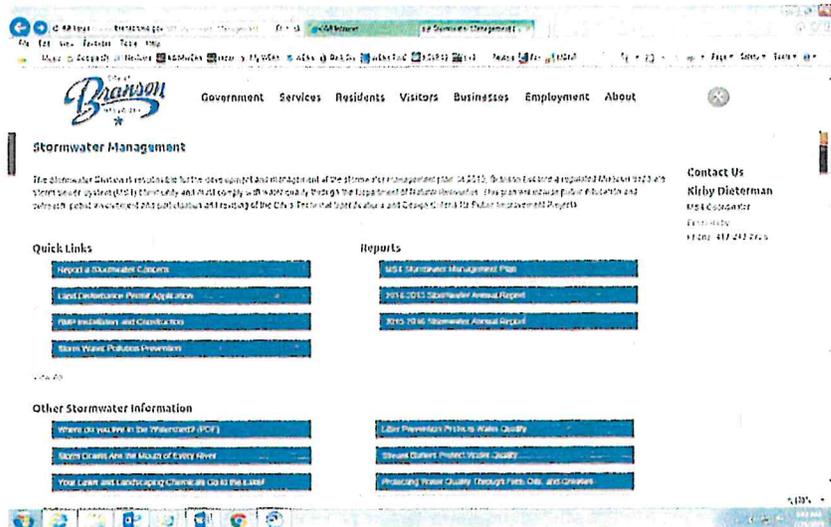
The City of Branson views the stormwater management plan as an opportunity to expand on a vision for clean water within our jurisdiction. We recognize that this stormwater management plan is a starting point for effective non-point source pollution reduction and our residents and community leaders are committed to being proactive in protecting our water resources as we place great value on the water resources in our care.

Minimum Control Measure #1 – Public Education

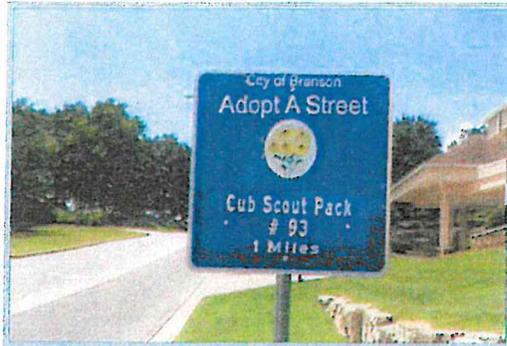
Summary: The City of Branson has continued to build its public education program through distribution of educational materials to the community, the city website, and conducting outreach activities. The focus of these efforts is to educate the public with activities discussing the impact of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in storm water runoff.

Public Education Efforts

- Distributed educational brochures to the public at City Hall, Public Works, Recycle Center and Utilities Department. Enhanced Facebook page to include water quality posts.
- Added 8 additional links to the city’s new stormwater web page that is available to public, contractors, developers and builders. Now includes the city’s MS4 plan, MS4 annual report, and a map of the Table Rock Lake watershed.
- Stormwater webpage received 900 visits in the 12 month report period. Almost double for the previous year.



Continued to monitor our webpage regarding Branson's Adopt-A-Street program, to reduce floatables. Informative cards (below) are available at city hall and on website. In this reporting period there were total pick-ups and 243 bags of trash were collected and disposed of on 15.7 miles of roads. There are 19 organizations or groups that participate in this program.



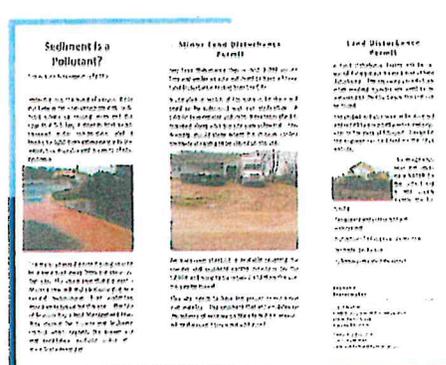
- Distributed 22 brochures throughout the community and at local events. The downturn in distribution is due to COVID-19 restrictions. We are focusing on trending to more online access.
- City leaders decided to close our recycling center during this time period. Taney County has opened a center for all county citizens.

- We are continuing our policy of providing citizens the materials to install storm drain decals and corresponding handouts. This brings our total to 723 storm drains marked by 201 volunteers, and 3,195 handouts distributed to homes/businesses. Most of our new storm sewers are being installed with manufacture lids that display 'drains to lakes and streams' imprinted at the factory.



No SWMP elements have been changed or refined since permit application. All measurable goals have been met.

The brochure that was created to inform the public about the Land Disturbance Ordinance is now available at the Planning Division and is given to any person interested in grading within the city limits during this reporting period.



Overall Compliance with Permit Conditions:

The Best Management Practices (BMP's) in the City's Stormwater Management Plan (SWMP) seem to be effective for local population. The City continues to make progress towards achieving the goal of reducing the discharge pollutants to the Maximum Extent Practicable (MEP). We have begun to make the public more aware of stormwater quality issues.

Stormwater Activities Planned During Next Reporting Cycle:

We will be submitting our new permit application in which our details will be listed.

No changes are proposed to MCM #1's BMP's or measurable goals.

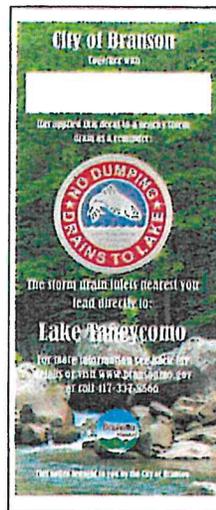
Minimum Control Measure #2 – Public Participation & Involvement

Summary: The City of Branson has actively involved the public in the development and implementation of the stormwater program.

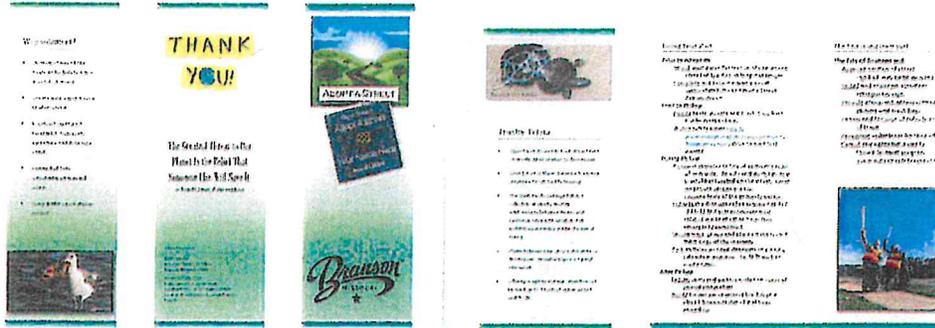
The Stormwater Division of the Engineering Department has a strong relationship with the Public Relations Department as well as local newspapers and radio stations. In the past, we have had individuals, families and groups such as the Boy Scouts take on specific tasks of laying permeable pavers and storm drain markers.

Public Involvement Efforts:

- The city has distributed brochures on “The Water Connection and Household Hazardous Waste,” as well as the door hanger below:



- Encouraged participation and organized the Adopt-a-Street program wherein we trained 20 participants and removed 243 full trash bags. We currently have 19 organizations that participate in the program.



- Maintained ten pet waste stations in city parks and at Branson Landing. Pet waste pick up signs have been posted throughout all of the City parks and trails reminding residents and visitors to pick up after their pets.



Our community wide Lake Clean Up was postponed due to COVID restrictions

No SWMP elements have been changed or refined since permit application. All measurable goals have been met.

Overall Compliance with Permit Conditions:

The City of Branson is complying with permit conditions relating to Public Participation and Involvement. Residents can utilize the "Citizen's Comment" and "Public Hearing" portion of the City Council and Planning and Zoning meetings as well as post a citizen concern on the city's website.

Whenever a development is proposed in the City, public hearings are held at the Planning & Zoning meetings. The Planning and Zoning Commission is a volunteer board who are appointed by City Council. They review and approve all developments coming into the city and include in their discussion stormwater and other issues prior to approval of the development. Once approved by Planning & Zoning, their recommendation is forwarded to City Council for final approval where residents have another opportunity to provide questions or comments.

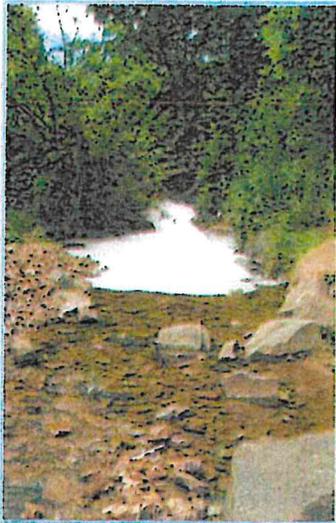
Stormwater Activities Planned During Next Reporting Cycle:

- Encourage groups and citizens to participate in the Adopt-a-Street program through the city website and social media.
- Continue maintaining pet waste stations.
- Continue to Co-Sponsor a community-wide lake cleanup with Ozarks Water Watch and Liberty Electric.
- The biennial Business and Community Survey will be updated to include questions regarding stormwater issues.

Minimum Control Measure #3 – Illicit Discharge Detection and Elimination

Summary: The City of Branson is striving to develop, implement and enforce a program to detect and eliminate illicit discharges into the MS4.

Illicit Discharge Detection and Elimination Efforts:



- The GIS mapping division continues to map all recently constructed stormwater piping and continues mapping of the city storm sewer system. Currently, Branson has approximately 203,775 feet or 38.6 miles of storm sewer infrastructure mapped throughout the City limits.
- Training of employees in proper handling of materials is given by our Human Resources Division via division-wide Safety Meetings.
- Established a web-based reporting tool for illegal discharges/stormwater reporting and developed a response and reporting system to track incidents. Incident information is recorded by Police Dispatch and reported to Stormwater Coordinator.
- Outfall mapping of Roark Creek proper and its tertiary channels to be utilized for the Outfall Monitoring and Dry

Weather Screening Plan.

- Developed an Outfall Monitoring and Dry Weather Screening Plan to be used for inspections twice annually. This utilizes the outfall maps created by the GIS division. An inspection sheet has been created to assist with inspections. Inspections are to begin in 2022.



No SWMP elements have been changed or refined since permit application. All measurable goals were met. No changes are proposed for MCM #3 BMP's or its measurable goals.

Overall Compliance with Permit Conditions:

Branson is complying with permit conditions relating to Illicit Discharge Detection and Elimination. Our GIS stormwater map is being updated continuously to show stormwater discharge points. This map currently shows all developments within the city limits. Construction sites are monitored more closely by Construction Project Managers in the Engineering Department and Building Inspectors.

Results of Information Collected and Analyzed During Reporting Period:

- Marked 12 storm drains and distributed 8 flyers.

Stormwater Activities Planned During Next Reporting Cycle:

- Continue mapping of storm sewer system.
- Continue to improve the web-based reporting tool for illegal discharges/stormwater.
- Implement the Outfall Monitoring and Dry Weather Screening Plan.
- Continue stormwater education and training to 20% of city employees in Engineering, Public Works, Fire, Police, Parks, Utilities and Planning Departments.

Minimum Control Measure #4 – Construction Site Stormwater Runoff Control

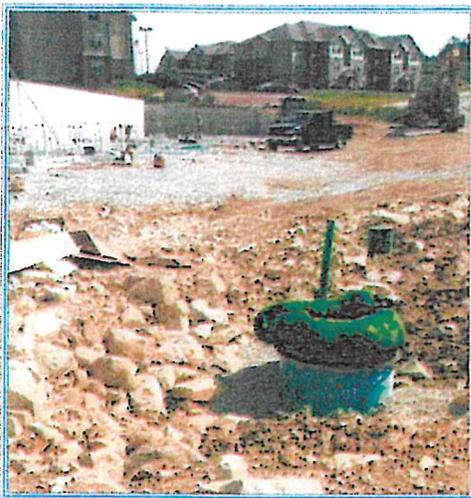
Summary: Branson is striving to develop, implement and enforce a program to reduce pollutants in stormwater runoff from construction activities that result in disturbance of greater than one acre.

Construction Site Runoff Control Efforts:

- 42 Construction plans for commercial and 102 plans for residential construction were reviewed. 4 of these projects were over 1 acre.
- Staff inspected all construction sites and enforced construction site runoff control.
- The City is utilizing a new software system (CitizeServe) to track review and inspection of construction. This allows for better monitoring of construction sites within the city limits.

No SWMP elements have been changed or refined since permit application. All measurable goals were met.

Overall Compliance with Permit Conditions:



developers and builders must follow.

Branson has been compliant with the continued implementation of construction site runoff controls by means of regulatory requirements and on-site inspections. There are also measures in place that require developers to submit a site improvement plan which addresses sediment and erosion control. The ordinance that was passed in 2018 requires that any land disturbance of over 3000 sq. ft. require a Land Disturbance Permit. We also reference the MDNR Protecting Water Quality Manual as a guide for site runoff control to engineers, developers and contractors. Other processes that need mentioned prior to construction commencing are that there are several plan review and planning and zoning processes that

All subdivision developments must be approved by the Planning & Zoning Commission via plat approval. Upon approval, they are forwarded to City Council for approval and recording. On individual lots and developments the developer/builder must submit their plans to the Engineering Department for review and approval of the stormwater aspects of their project. The project cannot move forward until the Engineering Department gives final for construction.

Stormwater Activities Planned During Next Reporting Cycle:

- Continue to educate public, employees, contractors and developers regarding requirements for construction site runoff control by holding annual meetings which explain the ordinances as well as BMP methods that will help with compliance
- A 'grace' period for violations will exist for approximately 1 year in order for developers, engineers, and contractors to acclimate to the new laws set forth in the new ordinance.

Summary of the Number of Plan Reviews:

- Stormwater coordinator reviewed 144 plans; all plans received comments regarding the protection of the job site from sediment and construction debris migration, as well as SWPPP BMP's being installed per specification.

Summary of the Number of Inspections:

- City staff completed 137 formal and 525 informal inspections to ensure stormwater quantity and control was addressed. The inspections performed were for the placement of ESC and final inspections. Only 4 projects were over one acre.

Minimum Control Measure #5 – Post-Construction

Summary: Branson is striving to develop, implement and enforce a program to address stormwater runoff from development and redevelopment projects that disturb greater than one acre. Various BMP's are used to control siltation and erosion of development areas until such time as vegetation can be re-established. The City of Branson requires all developments to meet stormwater detention or retention requirements to help minimize the impacts of flooding, post-construction runoff, including runoff from increased impervious areas created by the development.

Post-Construction Runoff Control Efforts:

- A request for proposal was sent out to consultants across the region to develop a Stormwater Masterplan for the city. It was awarded to MECO Engineering and was completed in 2019.
- The engineering Department has modified the Design Criteria for Public Improvement Projects to include BMP's for stormwater control. Staff is currently reviewing.
- When legal counsel is acquired they will continue review and make recommendations for ordinances to regulate and enforce post-construction strategies for new and redevelopment projects.
- A web-based reporting tool for illegal discharges has been created and the city has developed a response and reporting system to track complaints.
- Review the city's existing zoning ordinance to consider incorporating appropriate amendments to the zoning code to provide more green space and buffer zones. The amendments will address maximum impervious surface requirements. This is out for public response at this point.
- When legal counsel is acquired, they will review any proposed amendments to the city's zoning ordinance regarding planned development and overlay zones.

No SWMP elements have been changed or refined since permit application.

Overall Compliance with Permit Conditions:

The BMPs in the City's SWMP seem to be effective for local population, appear to address some of the city's larger potential pollution sources and have integrated well with local management procedures. Branson continues to make the public as well as private development more aware of stormwater quality issues as they relate to the post-construction environment. Plan review continues to recommend post construction methods for projects coming into the City as well as for capital improvement projects funded by the City.

Stormwater Activities Planned During Next Reporting Cycle:

- Present to the Board of Alderman proposed changes to the zoning ordinance to include provisions regarding open space, stream buffer zones, maximum impervious surfaced requirements and overly zones.
- As-builts for any and all detention/retention facility has been required.
- Begin to utilize the recommendations given by MECO with our Stormwater Masterplan.

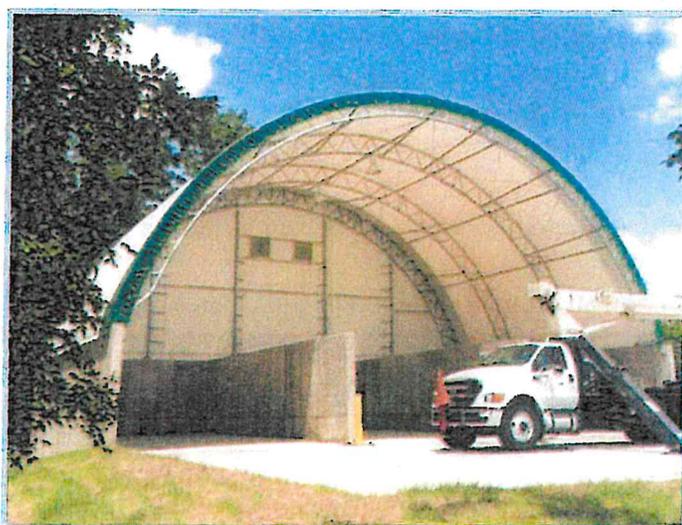
No changes are proposed for MCM #5 BMP's or measurable goals.

Minimum Control Measure #6 – Good Housekeeping for Municipal Operations

Summary: Branson is striving to develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

Good Housekeeping Efforts:

- Continue promotion of Adopt-a-Street program.
- Operation and Maintenance Manual is completed and being reviewed by city staff. Continual Street sweeping to reduce floatables – 1304 miles this reporting cycle.
- Trained 25 city employees from the Fire Department concerning stormwater education having them attend the Erosion and Sediment Control PowerPoint presentation held by the Stormwater Coordinator.
- Used oil recycling – ongoing.
- Utilized current software to track stormwater maintenance hours by city staff.
- Continued salt storage under cover.
- Continued removal of trash, salt and gravel debris from city right-of-way by public works staff while mowing.
- Continued use and promotion of non-coal tar sealants on parking lots or city streets.



No SWMP elements have been changed or refined since permit application. All measurable goals were met. No changes are proposed for MCM #6 BMP's or measurable goals.

Overall Compliance with Permit Conditions:

Branson's BMP's seem to be effective for local population, and have integrated well with local management procedures. Branson continues to make progress towards reducing the discharge of pollutants and have begun to make staff in all departments more aware of stormwater quality issues as they relate to municipal operations. Our Parks Department uses covers on materials such as mulch and topsoil to prevent unnecessary runoff. We continue to evaluate and improve our salt storage for snow removal operations. We have a covered area and tarps and bins in place over our outside storage which is monitored and maintained on a regular basis. Pollution prevention and good housekeeping measures are one function of each of our employees' job. This is a daily, on-going routine and employees are reminded to be aware of our own operation and maintenance practices to help and ensure a reduction in the amounts and types of wastes that collect on our streets, parking lots and maintenance areas. City staff also maintains compliance with contractors and developers sites by the enforcement of existing codes and ordinances that assist with prevention.

Results of Information Collected and Analyzed During Reporting Period:

- Our street sweeper operated for 1044 hours removing debris from the streets.
- Inlets/catch basins are inspected periodically and cleaned as needed.
- Used oil converted from waste to energy at three city facilities.
- 243 bags of trash removed from city right-of-way.
- Developed an operation and maintenance program for consideration by various city departments for staff review and approval.
- 618 hours of stormwater maintenance was performed by city staff.

Stormwater Activities Planned During Next Reporting Cycle:

- Formal adoption and implementation of the Operations and Maintenance Manual
- Continued Stormwater BMP Training of city parks, fire, police, utilities, public works, planning and engineering employees.