

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 St. Charles County Government	2. NPDES PERMIT NUMBER R040058	3. MS4 UNIQUE ID NO.	
4. ADDRESS 201 N. 2nd Street, Suite 433	5. CITY St. Charles, MO 63301	6. STATE MO	7. ZIP CODE 63301
8. TELEPHONE NUMBER WITH AREA CODE (636) 949-7900 Ext. 7160	9. EMAIL rgnecco@sccmo.org		
10. NAME OF MS4 CONTACT PERSON Richard A. Gnecco Jr.			

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: June 13, 2016

ENDING: December 31, 2016

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
			<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

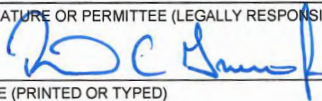
PART F – SUBMIT REPORT TO:

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 OR PERMITTEE (LEGALLY RESPONSIBLE PERSON)



DATE SIGNED

2/28/2017

NAME (PRINTED OR TYPED)

Richard A. Gnecco Jr.

TITLE

Director of Development Review

APPENDIX A

**MINIMUM CONTROL MEASURE (MCM)
INDIVIDUAL RESPONSIBILITY**

MCM (Minimum Control Measure)	Department /Division Staff *Individual responsible
<p>MCM 1 Public Education and Outreach on Storm Water Impacts</p>	<p>*Frankie Coleman, St. Charles County Soil and Water Conservation District Theresa Dunlap, St. Charles County Soil and Water Conservation District Charlie Perkins, St. Charles County Soil and Water Conservation District Ryan Tilley, Community Health & the Environment St. Charles County Department of Public Health Doug Bolnick, Community Health & the Environment St. Charles County Department of Public Health Deborah Christensen, Community Health & the Environment St. Charles County Department of Public Health Dennis deJong, Parks & Recreation Tony Peper Nick Dziuba, Parks & Recreation Sandy May, Community Development/Building & Code Enforcement</p>
<p>MCM 2 Public Involvement / Participation</p>	<p>*Deborah Christensen, Community Health & the Environment St. Charles County Department of Public Health Ryan Tilley, Community Health & the Environment St. Charles County Department of Public Health Doug Bolnick, Community Health & the Environment Frankie Coleman, St. Charles County Soil and Water Conservation District Theresa Dunlap, St. Charles County Soil and Water Conservation District Charlie Perkins, St. Charles County Soil and Water Conservation District Dennis deJong, Parks & Recreation Tony Peper Nick Dziuba, Parks & Recreation</p>
<p>MCM 3 Illicit Discharge Detection and Elimination</p>	<p>*Jared Agee, Community Development/Building & Code Enforcement Ryan Tilley, Community Health & the Environment St. Charles County Department of Public Health Rich Gnecco, Community Development/Development Review Division Sandy May, Community Development/Building & Code Enforcement</p>
<p>MCM 4 Construction Site Storm Water Runoff Control</p>	<p>*Rich Gnecco, Community Development/Development Review Division Charlie Perkins, St. Charles County Soil and Water Conservation District Dennis deJong, Parks & Recreation Dennis Green, Park & Recreation Tony Peper Nick Dziuba, Parks & Recreation</p>
<p>MCM 5 Post-Construction Storm Water Management in New Development and Redevelopment</p>	<p>*Rich Gnecco, Community Development/Development Review Division John Lyons, Highway Department Frankie Coleman, St. Charles County Soil and Water Conservation District Theresa Dunlap, St. Charles County Soil and Water Conservation District Charlie Perkins, St. Charles County Soil and Water Conservation District Jan Whipple, Community Development/Planning & Zoning Division Dennis deJong, Parks & Recreation Tony Peper Nick Dziuba, Parks & Recreation</p>
<p>MCM 6 Pollution Prevention/Good Housekeeping for Municipal Operations</p>	<p>*John Lyons, Highway Department Jim Irlander, Facilities Dennis deJong, Parks & Recreation</p>

**APPENDIX B-1
2017-2021 NPDES Permit
St. Charles County Government**

Operating Plan Matrix MCM 1 Public Education and Outreach on Storm Water Impacts					
Goal: Promote Stormwater Messages					
Objective: Increase continuity with municipal programs; Increase awareness of target pollutants; Encourage behaviors to reduce target pollutant sources*.					
*Key: M=municipal continuity; E=Erosion/sedimentation; H=Hazardous chemicals; L=Litter/Illegal Dumping; S=Septic; Y=Yard Waste					
Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
ST. CHARLES COUNTY SOIL AND WATER CONSERVATION DISTRICT					
Presentations and outreach (stormwater, soil erosion, water quality) (E,L,Y)	Number of contacts, goal 10 presentations	2013-2018	St. Charles SWCD Staff	Presentations on soil erosion and water quality	8 presentations, 304 students/adults
Outreach Publications (storm water, native plants, point and non point source pollution, septic systems, etc.) (E,L,S,Y)	Goal - 2 annually Distribute in libraries	2013-2018	Theresa Strunk	Streamside Stewardship flyer (working with Development Review section; awaiting review); water conservation tips	Completed water conservation tips for grade school age students
Needs Assessment Survey to evaluate number of landowners needing assistance with conservation practices (E)	Completed annually	2013-2018 Completed Annually	Charlie Perkins, Frankie Coleman		Completed 11/10/16
Conservation Education Library (E,L,S,Y)	Available to the public	On-going	St. Charles SWCD Staff	On-going	On-going
St. Charles County SWCD website (E,L,S,Y)	Website hits	On-going	Theresa Strunk	On-going	597 hits
Landowner Erosion Control Site Visits (E)	Goal - 10 annually	2013-2018	Charlie Perkins	Site visits for landowner concerns	10 aq, 5 urban
Brief Technical Assistance - office/phone (E,S,L,Y)	Goal - 10 annually	2013-2018	St. Charles SWCD Staff		13 phone contacts, 8 office contacts
SWCD Newsletter, the Reporter (E,S,L,Y)	Goal - 4 issues annually	2013-2018	Theresa Strunk St. Charles SWCD staff	Mailed to over 950 landowners, municipalities, educators in the County	2 completed
Workshops (topic will vary) (E,S,L,Y)	Goal - 1 annually	2013-2018	St. Charles SWCD Staff	State and Federal Programs workshop	1 completed
Press Releases (stormwater concerns) (E,S,L,Y)	Goal - 2 annually	2013-2018	Theresa Strunk		0 completed
Event Display (Race for the Rivers) (M)	Number of attendees	2013-2018	Theresa Strunk		1 display, 23 contacts
Poster Contest and Display (4th, 5th & 6th grade) Theme - "We All Need Trees" (M,E)	Annual contest, number of participants	2013-2018	Theresa Strunk	Annual contest	Will be held in April 2017
Displays available for partners/municipalities to utilize at events (M)	Numbers of requests for displays	2013-2018	St. Charles SWCD Staff		0 requests
COMMUNITY HEALTH & THE ENVIRONMENT DEPARTMENT ST CHARLES COUNTY DEPARTMENT OF PUBLIC HEALTH					
Stormwater Management Video	Develop and broadcast (update as necessary)	2013-2014	Ryan Tilley, Jack Gamble	Project Completed.	Completed.
Provide Grease Interceptor Brochures to restaurants to educate the effects of grease clogging storm drains	Mail 1,100 Grease Interceptor Brochures annually to restaurants	2013	RyanTilley	Project Completed for this reporting period.	Completed.
Stormdrain Marking (M,E,H,L,S,Y)	150 stormdrains marked annually, and educational brochures delivered to each resident on stormwater pollution prevention as stormdrains are marked	2014-2018	Deborah Christensen	Project Completed for this reporting period.	We have completed our goal of marking 150 stormdrains and distributed educational doorhangers for each resident.
Event display (M,E,H,L,S,Y)	1 community event per year	2013-2018	Deborah Christensen, Ryan Tilley	Project Completed for this reporting period.	St. Charles County Division of Environmental Health and Protection collaborated with the St. Charles County Parks Department to host an Earth Day event at Broemmelsiek park. (2nd year)
Environmental Programs and Tours of the Recycling Centers	Provide educational presentations or recycling tours	2013-2018	Deborah Christensen	Project Completed for this reporting period.	Provided 11 educational presentations/tours and impacted 436 individuals.

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Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
PARKS AND RECREATION DEPARTMENT					
Park Education and Enhancement Projects (E,L,Y)	1 - Riparian Planting Restoration Project	2013-2018	Nick Dziuba		Broemmelsiek Park: Two riparian plantings along Kraut Creek were inventoried and monitored. The results of the information gathered showed that we are well above the required rate of the COE, and that no further planting was necessary at the time
	1 - Middle School Field Day per year 2-O'fallon Garden Club at Broemmelsiek 3-Park Explorer Kids Club 4-Nature Walk at Towne Park	2013-2018	Nick Dziuba		Field Day Programs were conducted as follows: Wentzville Middle School Field Day - 2015 Field day held at Quail Ridge Park included discussions on stream dynamics, stream ecology, water quality, and trail building to eliminate erosion. Barat Academy Field Day I Service Day - 2015 Presented programs to students that discussed the importance of cover crops, and residue in gardens and agriculture fields before harvesting fall vegetables from the agriculture demonstration area. Barat Academy Field Day I Service Day – 2016 Discussed the importance of soil conservation and erosion control as it pertains to agricultural fields and gardening at the start of the session before the children planted crops in the agricultural demonstration area. Park Explorer Kid's Club 2015 & 2016 - (3 required, 6 achieved) Educational programs and activities were presented to 60 school-aged participants each summer. Topics included: Wildflowers of the Prairie; Macro Invertebrate Identification; Birds of Quail Ridge Park; Wild Mammals; Fishing; and Tree Identification.
	3 - Park Education programs per year		Nick Dziuba		We had 10 students each week from Barat Academy assisting with natural resource projects. We have had a number of Master Naturalist Volunteers on a number of projects, including: Woodland Restoration at Matson Hill/ Park and the New Melle Area Park; Rain Garden Maintenance at Quail Ridge Park and Indian Camp Creek Park; Plant Management at Spring Bend Park; and Invasive Species controls at several parks.
BUILDING CODE ENFORCEMENT DIVISION					
Annual training program on the proper installation of septic systems and new technology.	Qualified installer of septic systems that are tested and licensed through the State of Missouri.	2013-2018	Sandy May		Ongoing

APPENDIX B-2
2017-2021 NPDES Permit
St. Charles County Government

Operating Plan Matrix MCM 2 Public Involvement / Participation

Goal: Increase community involvement to 30,000 residents by 2018.

Objective: Public involvement and participation in NPDES plan development and implementation

***Key: M=municipal continuity; E=Erosion/sedimentation; H=Hazardous chemicals; L=Litter/Illegal Dumping; S=Septic; Y=Yard Waste**

Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
COMMUNITY HEALTH & THE ENVIRONMENT DEPARTMENT ST CHARLES COUNTY DEPARTMENT OF PUBLIC HEALTH					
Environmental education programs (M,E,H,L,S,Y)	Presentations made	2013-2018	St. Charles SWCD Staff, Deborah Christensen	Project Completed for this reporting period.	Provided 11 educational presentations/tours and impacted 436 individuals. (For the reporting period of 6/13/16-12/31/16, there were not any presentations given.)
Recycle Works drop-off centers (H)	Annual tonnage diverted from waste stream	2013-2018	Martin Reddick, Nick Olson	Project Completed for this reporting period.	From June 13, 2016 through December 31, 2016 these sites collected 971,028 pounds of material, including antifreeze, motor oil, electronics, plastic, glass, metal, paper and appliances.
Household Hazardous Waste (HHW) Collections (M)	Number of residents served	2013-2018	Nick Olson, Martin Reddick	Project Completed for this reporting period.	From June 13, 2016 through December 31, 2016, Recycle Works Central and Recycle Works West collected a total of 26,124 pounds of household hazardous waste for proper disposal from 595 residents.
Commission on Environmental Quality Meetings (M)	4 meetings per year	2013-2018	Ryan Tilley	Project Completed for this reporting period.	From June 13, 2016 through December 31, 2016, 2 Commission on Environmental Quality meetings were held..
Earth Day (M,E,H,L,S,Y)	One event per year (target audience--residents & employees)	2013-2018	Deborah Christensen	Project Completed for this reporting period.	St. Charles County Department of Public Health collaborated with the St. Charles County Parks Department to host an Earth Day event at Broemmelsiek park. (2nd year) (The Earth Day Event was held in April 2016.)
Stormdrain Marking (M,E,H,L,S,Y)	Stormdrains marked (pending budget constraints) and educational brochures delivered to each resident on stormwater pollution prevention as stormdrains are marked	2014-2018	Ryan Tilley, Deborah Christenen	Project Completed for this reporting period.	We have completed our goal of marking 150 stormdrains and distributed educational doorhangers for each resident.
Mission: Clean Stream (L)	Annual cleanup. Partner with cities and non-profits.	2013-2018	Deborah Christenen	Project Completed for this reporting period.	Completed for 2016.
Illegal dumping Program (L)	Allow citizens to aid local enforcement authorities in the identification of polluters. Tons of illegally-dumped waste collected. Complaints logged.	2013-2018	Deborah Christensen	Project Completed for this reporting period.	The amount of illegally dumped material removed from St. Charles County roadways totaled 2,820 pounds for reporting period, 6/13/16-12/31/16.
Tire Roundup Program (L)	Residents can recycle unwanted tires that will provide an outlet for tires and minimize illegal dumping. Number of tires removed from waste stream will be recorded.	2014	Deborah Christensen, Martin Reddick	Project Completed for this reporting period.	Completed.
ST. CHARLES COUNTY SOIL AND WATER CONSERVATION DISTRICT					
Environmental Education Program - Regional Envirothon (M,E,H,L,S,Y)	Numbers of teams participating	2013-2018	St. Charles SWCD staff/partners	Annual high school environmental competition Topic - Invasive Species	Will be held in April 2017
Mission: Clean Stream (L)	Number of participants	2013-2018	St. Charles SWCD staff	Annual Event w/municipalities and non-profits	Will be held in April 2017

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**Key: M=municipal continuity; E=Erosion/sedimentation; H=Hazardous chemicals; L=Litter/Illegal Dumping; S=Septic; Y=Yard Waste*

Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
PARKS AND RECREATION DEPARTMENT					
Park Education and Enhancement Projects (E,H,L,Y)	1 Master Naturalist Annual Training	2013-2018	Nick Dziuba		Earth Day 2016 at Broemmelsiek Park Department Informational Booth and Speaking Presentation made by Park Employees; "Tree Identification and the roles of Riparian Corridors" "Stream life and the effects of sedimentation" Information Booths including: St. Charles County Div. of Environmental Health and Protection; St. Charles County Soil and Water Conservation District; and Missouri master Naturalists-Confluence Chapter.

**APPENDIX B-3
2017-2021 NPDES Permit
St. Charles County Government**

Operating Plan Matrix MCM 3 Illicit Discharge Detection and Elimination						
Goal: Reduce Roadside Dumping/Littering by 60%						
Objective: Introduce New Programs, Acquire New Equipment, Revise Solid Waste Code Regulations (Chapter 240)						
<small>*Key: M=municipal continuity; E=Erosion/sedimentation; H=Hazardous chemicals; L=Litter/Illegal Dumping; S=Septic; Y=Yard Waste</small>						
Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016	
COMMUNITY HEALTH & THE ENVIRONMENT DEPARTMENT ST CHARLES COUNTY DEPARTMENT OF PUBLIC HEALTH						
Expand Recycle Works West operations to include Household Hazardous Waste Collection. (H)	Additional outlet for household hazardous waste. Minimizing improper disposal	2015	Ryan Tilley	Received household waste bunker June 2015.	Work completed.	
Recycle Works drop-off centers (H,L)	Track tonnage for recycled items that are commonly dumped wastes, such as motor oil, antifreeze, electronics, and appliances.	2013-2018	Martin Reddick, Nick Olson	Project Completed for this reporting period.	From June 13, 2016 through December 31, 2016, these sites collected 971,028 pounds of material, including antifreeze, motor oil, electronics, plastic, glass, metal, paper and appliances.	
BUILDING & CODE ENFORCEMENT DIVISION						
Identify and clean up failed septic systems throughout St. Charles County (S)	Prevent containments from infiltrating streams and rivers	2013-2018	Sandy May		Ongoing	
BUILDING & CODE ENFORCEMENT DIVISION						
Track and address illicit discharge complaints handled by Neighborhood Preservation in unincorporated St Charles County (H,L,Y)	Utilize existing software system to track incidents and complaints involving illicit discharges in unincorporated St Charles County and methods and/or action taken to resolve.	2013-2018	Jared Agee		5 illicit discharge complaints were received in 2015 and 5 complaints have been resolved. 0 illicit discharge complaints have been received so far in 2016.	
Visual creek screenings in unincorporated St Charles County. Twice yearly during low water flow and high water flow. (M,H,L,Y)	Physical inspection completed.	2013-2018	Jared Agee	Process is ongoing twice yearly.	Creek Screenings were performed twice in 2015 and twice in 2016 from 16 different Sites located on Big Creek, McCoy Creek, Peruque Creek and Dardenne Creek. Currently re-evaluating & re-prioritizing screening sites for 2017 revised SWMP	
Inventory, inspect, and have enforcement authority for industries and commercial enterprises in unincorporated St Charles County (H,L)	Utilize existing GIS mapping system and current ordinances	2013-2018	Jared Agee		Code Enforcement staff routinely surveys the commercial and industrial districts within unincorporated St. Charles County.	

**APPENDIX B-4
2017-2021 NPDES Permit
St. Charles County Government**

Operating Plan Matrix MCM 4 Construction Site Storm Water Runoff Control					
Goal: To reduce pollution of county watercourses from construction site runoff to the maximum extent practicable.					
Objective: Establish and manage a program of plan review, inspection, enforcement, and education for construction site runoff control.					
<small>*Key: M=municipal continuity, E=Erosion/sedimentation, H=Hazardous chemicals, L=Litter/Illegal Dumping, S=Septic, Y=Yard Waste</small>					
Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
DEVELOPMENT REVIEW DIVISION					
Monitoring of Construction Site Run Off (Inspections)	Number of Regular Inspections of all permitted sites, Number of Notices To Correct, Number of Violations, & Number of Inspections due to Complaints will be reported annually	2013-2018	Dev Review Erosion Control Inspectors		6/13/2016-12/31/2016: 260 Land Disturbance Inspections - see attached spreadsheet or LD Inspections tab for type & number. 19 Notices to Correct/Notices of Violation Issued, 16 Addressed, 3 in Enforcement 7 LD/Complaint Investigations responded to
Evaluating Water Quality & BMP Performance at Construction Sites	Total Settleable Solids (TSS) and Turbidity to be Determined in Receiving Streams & BMP Outfalls Before Construction Begins, Throughout Construction, and after Completion of the Project to Analyze Effectiveness of Current Design Standards	2013-2018	Kirby-Dieterman/Dev Review Erosion Control Inspectors & Review Engineers		Finalized procedures for inspection program in 2013. Began testing for TSS & Turbidity in 2017 & incorporated into baseline watercourse inspection as SOP prior to construction.
BMP Seminars	Hold an Annual Seminar for Industry Professionals and the Development Community that explains the proper use of BMP's and expectations that are set forth by the County	2013-2018	Kirby-Dieterman Paul Mueller		Did not hold program in 2016 due to loss of staff member & staff work load. Planning on holding a program in May, 2017. Paul Mueller conducted 13.5 hours training sessions for Wentzville 6th grade students & General Motor stream team reps in Nov., 2016.
Ordinance Modifications:					
Modify UDO Chapter 412 to meet revised MDNR standards	Bring the ordinance into compliance with current MNDR MO-RA & MO-R100 permit requirements	Draft 2-2013 Ord. Adopt 6-2013 8-2016 2017	Rich Gnecco, Paul Mueller , Counselor's Office		Draft was submitted to County Executive's office for review & placement on Council agenda May, 2014 - no action taken. Revising 2014 Draft to be compliant with 2017 MDNR MORA & MOR100 CGPs. Scheduled to address Ordinance revisions with Executive & County Council in 2017.
Construction Wastes	Create specific Ordinance requirements in UDO Chapter 412 regulating the storage of Hazardous Construction Materials; Disposal of Construction Waste; Litter on Site; Sanitary Waste on Site; Enforcement and Penalties will need to be included in Ordinance Addendum	2013-2014 2016-2017	Kirby-Dieterman, Rich Gnecco, Counselor's Office, Environmental Division		Will review during comprehensive review of UDO and Design Criteria - see also MCM #5
Stop Work Order Fine	Consider establishing a Fine for any Stop Work Order issued for Land Disturbance	2013-2014 2015-2016	Kirby-Dieterman, Rich Gnecco , Counselor's Office		Decided against pursuing this ordinance change at this time. We have not had many difficulties in enforcing our ordinances and inspection time is already subsidized by permittee.
<p align="center">Red activity denotes modification of original submittal. Green activity denotes action(s) taken</p>					
PARKS AND RECREATION DEPARTMENT					
Erosion Controls (E)	Visual and measured by grade	On-going during the project	Park's Site Manager		<p>Erosion Controls Visual Assessment College Meadows grading and erosion control</p> <p>The grading at the site was done to repair the north hillside and to insure that the repaired area didn't continue to erode. Dirt was hauled from on site to fill the ruts in on the hillside, then the area leading to the hillside was regarded to capture and hold the water from the site. On the east end of the water feature, there is a 12' metal corrugated pipe extending 120' down the hillside, with the inlet and outlet armored with 8 tons of rip rap. Upon the completion of the hillside grading wheat was planted for vegetation cover and 27,000 sq. ft. of Curlex 2 composite matting was laid to hold the hillside, straw erosion socks were installed at the bottom of the hill to control any sediment washing into the field. The rest of the site grading was planted in wheat and had straw blown over the seed. As the planting season nears the areas requiring prairie conversion will be sprayed and replanted with native prairie seed.</p>

**APPENDIX B-4
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Objective: Establish and manage a program of plan review, inspection, enforcement, and education for construction site runoff control.
*Key: M=municipal continuity, E=Erosion/sedimentation, H=Hazardous chemicals, L=Litter/Illegal Dumping, S=Septic, Y=Yard Waste

Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
PARKS AND RECREATION DEPARTMENT, CONTINUED					
Re-Forestation (E)	Stem Counts	On-going during the project	Parks Natural Resources Crew		Tree and shrub planting in Parks in 2014 and 2015 includes the following: 2015 & 2016: Continued to monitor riparian corridor planting along western portion of Kraut Creek to maintain compliance with the Corps of Engineers
Native plant introduction (E)	Stem counts and density	On-going during the project	Parks Natural Resources Crew		Native plant introduction has been initiated in several parks. The quantity of seed planted by year and park is as follows: New Melle Area Park 2016: Woodland community (2 acre) invaded by invasive species was converted to native vegetation. Quail Ridge Park and Broemmelsiek Park 2016: 21 acres of native prairie was planted at Quail Ridge Park (14 acres) and Broemmelsiek Park (7acres) Matson Hill Park 2016: Woodland Community Restoration (5 acres) invaded by invasive species and eastern red cedar was cleared and planted with native vegetation (grasses and forbs) at Matson Hill Park
Turf management practices (E)	Visual quality of turf	On-going during the project	Park's Site Manager		Turf management Practices- Visual assessment In 2014 & 2015 more than \$31,215 in prairie & turf seed and \$6,811 of various fertilizers have been applied to establish prairie coverage in several open areas. Also high use turf areas such as around pavilions and rest rooms, along road edges, and within the off-leash areas. This is done primarily to help control erosion and topsoil losses. Common practices include: Erosion control mats and socks, more than \$3,878 was spent in 2014 & 2015 Turf area aeration a minimum of 2 times each year Heavily used areas such as the off-leash sites are aerated 4 times min. per year Minimum Mowing height of 3-inches Over-seeding managed turf areas annually Soil Testing for nutrient supplementation as needed
Equipment service management (H,L)	Lack of observable impact factors such as oil and fuel spills or waste	On-going during the project	Park's Site Manager		Equipment Service management- Visual Assessment Common Practices include: Controlled collection and disposal of waste fluids Controlled distribution of fuels Available products to manage spills
Erosion Controls (E)	Visual and measured by grade	On-going during the project	Parks Natural Resources Crew		Erosion Control Visual Assessment for Quail Ridge Park: The newly constructed Interstate Drive and parallel walking trail had no vegetation growing on it. This area was on average 15 feet wide and nearly 3,000 feet long. This entire area was graded, smoothed and seeded to turf grass. It then had Curlex 2 composite matting installed over top. There were also straw erosion socks installed at varying intervals depending on the grade of the slope.
Erosion Controls (E)	Visual and measured by grade	On-going during the project	Parks Natural Resources Crew		Erosion Control Visual Assessment for Broemmelsiek Park: Bare fields that were being converted to native prairie were seeded with wheat in order to prevent erosion while they sat idle.

**APPENDIX B-4
2017-2021 NPDES Permit
St. Charles County Government**

Operating Plan Matrix MCM 4 Construction Site Storm Water Runoff Control					
Goal: To reduce pollution of county watercourses from construction site runoff to the maximum extent practicable.					
Objective: Establish and manage a program of plan review, inspection, enforcement, and education for construction site runoff control.					
<small>*Key: M=municipal continuity, E=Erosion/sedimentation, H=Hazardous chemicals, L=Litter/Illegal Dumping, S=Septic, Y=Yard Waste</small>					
Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
ST. CHARLES COUNTY SOIL AND WATER CONSERVATION DISTRICT					
Subdivision Plat Reviews (M)	Reduced stormwater runoff from subdivisions	2013-2018, as requested	Charlie Perkins, Theresa Strunk		2 completed as requested

ESC/LAND DISTURBANCE INSPECTIONS	
6-2013 TO 6-2014	
	#
INSPECTION TYPE	INSPECTIONS
Land Disturbance Investigation	4
Buffer/Tree Preservation/Staking	18
Preconstruction Meeting	24
Land Disturbance	238
Heavy Rain Land Disturbance	1
Requested Land Disturbance	0
Complaint Land Disturbance	0
50% Performance Guaranty Release	3
90% Performance Guaranty Release	1
Final Land Disturbance	35
Notice to Correct	0
Notice of Violation	0
TOTAL	324
6-2014 TO 6-2015	
	#
INSPECTION TYPE	INSPECTIONS
Land Disturbance Investigation	16
Buffer/Tree Preservation/Staking	16
Preconstruction Meeting	30
Land Disturbance	90
Heavy Rain Land Disturbance	4
Requested Land Disturbance	0
Complaint Land Disturbance	0
50% Performance Guaranty Release	2
90% Performance Guaranty Release	0
Final Land Disturbance	47
Notice to Correct	2
Notice of Violation	5
TOTAL	212
6-2015 TO 6-2016	
	#
INSPECTION TYPE	INSPECTIONS
Land Disturbance Investigation	9
Buffer/Tree Preservation/Staking	6
Preconstruction Meeting	7
Land Disturbance	207
Heavy Rain Land Disturbance	3
Requested Land Disturbance	0
Complaint Land Disturbance	1
Performance Guaranty Release	5
Final Land Disturbance	31
Notice to Correct/Notice of Violation	25
Watercourse/Vegetated Buffer	26
TOTAL	320

6-13-2016 TO 12-31-2016	
	#
INSPECTION TYPE	INSPECTIONS
Land Disturbance Investigation	7
Buffer/Tree Preservation/Staking	0
Preconstruction Meeting	15
Land Disturbance	193
Heavy Rain Land Disturbance	0
Requested Land Disturbance	0
Complaint Land Disturbance	0
Performance Guaranty Release	9
Final Land Disturbance	10
Notice to Correct/Notice of Violation	19
Watercourse/Vegetated Buffer	7
TOTAL	260

APPENDIX B-5

Operating Plan Matrix MCM 5 Post-Construction Storm Water Management in New Development and Redevelopment						
Goal: Address the quality of long-term storm water runoff from new development and redevelopment projects.						
Objective: Establish measurable criteria to determine impact to long-term storm water runoff strategies.						
*Key: M=municipal continuity, E=Erosion/sedimentation; H=Hazardous chemicals; L=Litter/Illegal Dumping; S=Septic; Y=Yard Waste						
Activity/Product	Objective	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
DEVELOPMENT REVIEW DIVISION						
Complete adoption of ordinance for Water Quality Volume & mimicking pre-development hydrology (Revise UDO 410.410)	To filter pollutants from "first flush" of storm water runoff, reduce runoff volume, & recharge ground water table.	Ordinance adopted	1st Draft: April-2013 Dec. 2017 Ordinance Adopted: July-2013 2018	Rich Gnecco, Dev Rev Staff		Currently drafting ordinance revisions. Currently allowing MSD & Georgia Stormwater Manual standards or any other standard that is suited to local soil, geologic, and hydrologic conditions. To date, over 74 permanent WQ BMPs have been designed/installed and 68 remain in the unincorporated county.
Revise UDO to require instrument that preserves, requires maintenance & repair, and allows for inspection of storm water management facilities.	To assure long-term preservation & maintenance of structural BMPs.	Ordinance adopted	1st Draft: April, 2013 Ordinance Adopted: July, 2013	Rich Gnecco, Dev Rev Staff		Complete - Maintenance Agreement Form approved by Co. Council 2011. Inspection & Maintenance requirements ordinance adopted 6-14-2011. Need to incorporate/reference to future BMP ordinance.
Inspection & Evaluation of Natural Watercourse Vegetative Buffers	To determine preservation compliance & condition of watercourse.	Establish long-term preservation of 75% of original established buffer areas.	2012	Rich Gnecco, Soil & Water Conservation District, Dev Rev Staff		Completed inspection of 86 out of 92 inventoried stream segments in 2011-2012. 86% buffers had 100% preservation and 93.7% had at least 75% preservation.
	Analyze inspection results and review ordinance for possible revisions to any concerns.	Ordinance Revisions Adopted (if needed)	2014 - 2017	Rich Gnecco, Dev Rev Staff		Currently analyzing inspection results. 86% of buffers remained 100% preserved, 93.7% remained 75% preserved leaving only 6.3% with 50% or less preservation.
	Create inventory of preserved buffer areas on GIS map	Map completed & updated	2013-2014-2018	Rich Gnecco, Dev Rev Staff, IS		Had preliminary discussions with IS Dept in 2013 & 2014. Gained approval for data input in 2015. Project scheduled for 2018 completion.
	Review need to create design standards for improvements allowed within the watercourse & buffers.	Design Criteria adopted	2013-2014 2017	Rich Gnecco, Dev Rev Staff		Awaiting analysis of inspection results
	Re-inspection of watercourses and buffers on a 5-10 year basis.	Establish long-term preservation of 75% of original established buffer areas & observe <25% new erosion in protected watercourses/buffers.	2018	Rich Gnecco, Soil & Water Conservation District, Dev Rev Staff		Will begin re-inspections in 2018. Established an electronic data collection software application utilizing GPS to compile and archive our watercourse/buffer inspections. Updated SOP to provide a baseline inspection of all watercourses adjacent to proposed development prior to construction. Will update in our SWMP submittal later in 2017.
Inspect Storm Water Management Facilities (SWMFs - Water Quality BMP's)	To ensure the long-term function, maintenance, and effectiveness of WQ BMP's. WQ BMP's filter pollutants from "first flush" of storm water runoff, reduce runoff volume, & recharge ground water table.	Establish long-term preservation & maintenance of 75% of WQ BMP's.	2013-2014 2013-2018	Kirby-Dieterman, Paul Mueller, Keith Wheeler, Rich Gnecco		Inventoried all WQ BMPs designed or constructed (68 currently - not including 4 sites with 10+ SWMFs annexed to municipalities). Adopted testing standards and created inspection form.
	Observe time to infiltrate ponded water to ensure functionality.	Drainage within 48 hours for 75% of WQ BMP's.	2013-2014 2013-2018	Kirby-Dieterman, Charles-Brewster, Paul Mueller, Keith Wheeler		We will begin inspections in April, 2017.
	Sample WQ BMP inlets & outfalls before & after development - maintain or improve water quality of local outfalls	Establish less pollutants in outflow than in inflow in 75% of WQ BMPs	2013-2015	Kirby-Dieterman, Keith Wheeler		Purchased sampling equipment and testing materials. Sampling on hold due to loss of trained staff. Need to determine whether we will discontinue, train additional staff, or hire testing agency.
	Review need to revise Water Quality Standards	Ordinance/Design Criteria Revisions Adopted (if needed)	2015	Rich Gnecco, Kirby-Dieterman, Keith Wheeler		Awaiting analysis of inspection results
Review Design Criteria 50.80 (Storm Water Detention) to eliminate concrete swale standard & incorporate other revisions that would enhance WQ & infiltration	To enhance water quality and infiltration and allow detention facilities to provide additional WQ benefits.	Design Criteria Adopted	2013-2014 2017-2018	Rich Gnecco, Dev Rev Staff		Awaiting Review. By policy, we are no longer approving concrete swales and we have been requiring alternative grassed/rocked swales. We are developing a design for an infiltration swale with underdrainage to replace the concrete swale requirement. We currently have 2 detention basins designed or constructed with infiltration swales.
	Review current Channel Protection Detention Standard for possible change to 1 or 2 yr extended detention	Design Criteria Adopted	2013-2014 2017-2018	Rich Gnecco, Dev Rev Staff		Awaiting analysis of watercourse inspection results.
Review need to revise UDO to provide separate standards for requiring storm water quality treatment and detention in redevelopment projects	To allow flexibility and to assure runoff is being managed to the MEP within redevelopment projects.	Ordinance Adopted	2013-2014 2017-2018	Rich Gnecco, Dev Rev Staff		Awaiting Review
Comprehensive review of UDO and Design Criteria	To provide additional opportunities to reduce impervious area and infrastructure and to update standards to allow for better stormwater management.	Ordinance/Design Criteria Revisions Adopted	Draft 2014-2015-2016 Adoption 2014-2015-2017-2018	Rich Gnecco, Dev Rev Staff, P&Z Staff, Hwy. Dept. Staff		Will review all zoning & development ordinances in 2017. Design Criteria 2017-2018. Draft ordinance addition to Section 302.10 of property maintenance codes requiring disconnection of runoff from impervious surfaces created April, 2013 has not been adopted by County.
	Peer & stakeholder review & input See also Cluster Development	Endorsements received	2014 2017	Peer/Stakeholder panel		Awaiting Review
	See also Cluster Development	5% reduction in commercial site impervious areas.	2018	Rich Gnecco, Jan Whipple (P&Z)		Awaiting analysis
	See also Cluster Development	5% of streets (by length) in new development or redevelopment with open drainage design (no curb & gutter), 5% reduction of storm sewer, inlets, & street length.	2018	Rich Gnecco, Jan Whipple (P&Z)		Awaiting analysis.
Establish WQ BMP standards and details and incorporate into Design Criteria	To provide design standards that are appropriate for local soils, geology, & hydrology but that still encourage alternative design and use/re-use of site specific resources & materials.	Design Criteria Adopted	Draft 2016-2018 Adoption 2017 2019	Rich Gnecco, Keith Wheeler, Dev Rev Staff		Awaiting Review. Currently allowing MSD & Georgia Stormwater Manual standards or any other standard that is suited to local soil, geologic, and hydrologic conditions. To date, over 74 permanent WQ BMPs have been designed or installed and 68 remain in the unincorporated county.
	Peer/Stakeholder Review	Endorsements received	2016 2017	Peer/Stakeholder panel		Awaiting Review
Encourage use of Cluster Development Zoning	Encourage and permit low impact development to preserve open space, reduce impervious area, allow for the disconnection of impervious areas, and to limit development in environmentally sensitive areas.	One low impact/cluster development is established.	2014 2017	Rich Gnecco, Jan Whipple (P&Z)		No cluster development to date - Little to no residential development until 2015.
		2 additional low impact/cluster developments.	2016-2017 2018	Rich Gnecco, Jan Whipple (P&Z)		No cluster development to date
		Establish 10% of total development as low impact/cluster development.	2018 2020	Rich Gnecco, Jan Whipple (P&Z)		No cluster development to date
Standardize Use of Porous Pavement	Use porous pavement as a standard for commercial development & find uses in residential development.	One porous pavement project	2014	Charlie Feldman, Rich Gnecco, Review Staff, Reeky Morgan (Construct Mgr), Mike Buford (Facilities), Parks Dept.		We will incorporate this practice into our BMP toolkit and encourage its use on county facility projects, but we will be eliminating this measurable goal when we submit our revised SWMP in 2017. No project to date
		3-5 porous pavement projects	2017	Charlie Feldman, Rich Gnecco, Review Staff, Reeky Morgan (Construct Mgr), Mike Buford (Facilities), Parks Dept.		No project to date
		Draft and adopt standards for porous pavement use	2018	Rich Gnecco, Jan Whipple (P&Z)		Awaiting
Inspection & Maintenance Enforcement of Storm Water Detention & Management Facilities	Assure long-term maintenance & function of detention facilities and to provide maintenance & watershed education to subdivision trustees and private basin owners.	Inspect 20% of detention basins per year. Achieve a failed inspection rate of 33% or less reduction in number of maintenance violations after initial inspections.	2013-2018	Rich Gnecco, Charles-Brewster, Paul Mueller		6/13/2016-12/31/2016: 20 Basin Inspections out of 216 basins (9.3%) 5 Failed Inspections (25%)

APPENDIX B-5

Operating Plan Matrix MCM 5 Post-Construction Storm Water Management in New Development and Redevelopment						
Goal: Address the quality of long-term storm water runoff from new development and redevelopment projects.						
Objective: Establish measurable criteria to determine impact to long-term storm water runoff strategies.						
*Key: M=municipal continuity, E=Erosion/sedimentation, H=Hazardous chemicals, L=Litter/Illegal Dumping, S=Septic, Y=Yard Waste						
Activity/Product	Objective	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
	Assure long-term maintenance & function of SWMFs and to provide maintenance & watershed education to subdivision trustees and private SWMF owners.	Achieve a failed inspection rate of 33% or less reduction in number of maintenance violations after initial inspections.	2013-2018	Kirby Dieterman, Keith Wheeler, Charles Brewster, Paul Mueller, Rich Gnecco		Currently creating inspection standards and an inspection form for enforcement of maintenance of SWMFs per UDO Section 420.020.
Track Storm Water Complaints	To determine if problem areas exist regarding storm water management and to compare the impact of new storm water regulations on new development versus old development.	Document number and geographic locations of complaints on annual basis.	2013-2018	Kirby Dieterman, Keith Wheeler, Rich Gnecco Development Review Staff		Ongoing - Complaint information stored in MUNIS & Citizenseve databases. 14 complaints investigated 6/13/2016-12/31/2016. All were documented in Citizenseve database.
Conduct Training & Informational Seminars	To update development community concerning new regulations, alternative methods, products, & technologies available for development.	Hold one to two training sessions annually.	2013-2018	Kirby Dieterman, Paul Mueller, Rich Gnecco		Did not hold program in 2016 due to loss of staff member & staff work load. Planning on holding a program in May, 2017. Paul Mueller conducted 13.5 hours training sessions for Wentzville 6th grade students & General Motor stream team reps in Nov., 2016.
Develop standards for post-developed runoff based on watershed modeling	Discuss and develop methodology and standards for post-developed runoff in Dardenne Creek watershed using 2007 model by USACE to establish watershed based approach to storm water management.	Ordinance & Design Criteria adopted	2013-2014 - 2013-2018	Rich Gnecco		Discussing methodology for standards with USACE.
	Review possibility of partnering with other agencies to develop models for other major watersheds to establish watershed based approach to storm water management.	Executed agreements with watershed partners - only if economically feasible.	2018	Charles Feldman, Rich Gnecco		Awaiting
Partner with Parks & Recreation and Other Private/Public Linear Park & Stream Organizations. Evaluate regional detention opportunities.	Preserve open space through acquisition of property for parks, create opportunities for regional storm water detention/management, preserve and enhance riparian buffers, and provide for projects that will enhance water quality and provide recreational and educational opportunity.	Document SWMFs installed in county parks & any other public recreational facilities developed by other agencies.	2013-2018	Rich Gnecco, Bettie Yahn-Kramer (Parks), Rich Halsey-Dennis de Jung (Parks)		Ongoing - storm water management has been made a regular part of the planning & review process for public parks. Looking for porous pavement and regional detention projects in a future park. 5 Rain Gardens and 2 Engineered Wetlands created and numerous ponds created or enhanced in County parks since 2009 that include educational placards.
Red activity denotes modification of original submittal. Green activity denotes action(s) taken						
PARKS AND RECREATION DEPARTMENT						
Partner with Parks & Recreation and Other Private/Public Linear Park & Stream Organizations. Evaluate regional detention opportunities. (E)	Preserve open space through acquisition of property for parks, create opportunities for regional storm water detention/management, preserve and enhance riparian buffers, and obtain funding available for projects that will enhance water quality and provide recreational opportunity.	Make storm water management a regular part of the planning process for public parks. Evaluation completed and planning goals established.	As possible	Parks Maintenance Supervisor	Each park is planned and developed with strong consideration given to the unique character and diversity of the site. This genesis of the site defines both the intensity of the development that the site can tolerate as well as how various land management practices that can be implemented to attain a desired goal. Specific planning elements and techniques to be implemented for stormwater controls may include but not be limited to the installation of detention/retention basins, rain gardens, riparian plants of trees, shrubs, & grasses, point/source grading and vegetation management, or whatever combination of techniques that will: Successfully address and control stormwater management issues; and Create a positive impact on the site's environment for the visitor.	Ongoing
Soil Enhancements to promote vegetative growth (E)		Soil Chemistry for nutrients and pH	Immediately after project completion	Parks Maintenance Supervisor	See MCM 4	Ongoing
Re-Forestation (E)		Stem Counts	On-going during the project	Parks Natural Resources Crew	See MCM 4	Ongoing
Native plant introduction (E)		Stem counts and density	On-going during the project	Parks Natural Resources Crew	See MCM 4	Ongoing
Turf management practices (E)		Visual quality of turf	On-going during the project	Park Crews	See MCM 4	Ongoing
HIGHWAY DEPARTMENT						
Continue Storm Sewer Facilities Inspection & Maintenance Program (E,L,Y)	Assure that storm sewers are not in disrepair, are free from debris and pollutants, and that pipe outfalls are non-erosive.	Have 20% of publicly maintained storm sewers & storm water facilities inspected annually.	On-going	John Lyons	Annual cleaning and inspection of approximately 20% of storm sewer inlets and storm sewer pipes.	All annual inlet and pipe inspections completed for 2015 & 2016.
Residential Street Sweeping (H,L)	To remove organic matter and pollutants from our streets to help reduce pollutant and nutrient load into our storm sewer systems and watercourse	Sweeping twice per year thru the end of the permit period	On-going	John Lyons	Sweeping program remains ongoing in urban areas	Sweeping goals met for 2015 & 2016.
ST. CHARLES COUNTY SOIL AND WATER CONSERVATION DISTRICT						
Provide technical assistance for erosion control and water quality (E)	Reduce soil erosion and improve water quality	Landowners installing practices to reduce erosion and improve water quality	2013-2018	Charlie Perkins Frankie Coleman	26 cover crop practices, 2 sod waterways, 1 sediment & water control structure, 1 permanent vegetative cover practice, 1 terrace system	31 practices completed
Environmental Quality Incentive Program, program administered by USDA NRCS (E)	Reduce soil erosion and improve water quality	Landowners installing practices to reduce erosion and improve water quality	2013-2018	St. Charles SWCD Staff/NRCS Staff		Six practices completed on 281.2 acres
Rain Garden Installation (E)	Assist a municipality with the installation of a rain garden	Rain garden installed within 5 year reporting period	2013-2018	St. Charles SWCD Staff		None
Conservation Security Program - program administered by USDA NRCS to improve/maintain existing conservation systems (E)	Improve or maintain existing conservation systems to improve natural resources	Improvements made to existing practices or maintaining existing practices	2013-2018	St. Charles SWCD Staff/NRCS Staff		No participation

APPENDIX B-6
2013-2018 NPDES Permit
St. Charles County Government

Operating Plan Matrix MCM 6 Pollution Prevention / Good Housekeeping for Municipal Operations					
Goal: Continue with the Monitoring of Construction Site Run-Off Improve Monitoring of Water Conditions Adjacent to Site					
Objective: Establish Water Quality Baseline at Construction Sites and Enforce BMP's for Compliance					
<small>*Key: M=municipal continuity; E=Erosion/sedimentation; H=Hazardous chemicals; L=Litter/Illegal Dumping; S=Septic; Y=Yard Waste</small>					
Activity/Product	Evaluation Indicator	Time Frame/ Due Date	Responsible Party	Comments	Work Completed for 2015 -2016
HIGHWAY DEPARTMENT					
Storm sewer inspections (E,L,Y)	Annual inspections	On-going	John Lyons	Annual inspections done.	Building & Lot inspections done for 2015 & 2016.
Herbicide application (H)	Remain at or below 50% of 2009 usage of herbicide Install mulch around guardrails to keep herbicide usage down	On-going 2016	John Lyons	Continue to mulch all guardrails and refresh as needed. Herbicide usage below 50% from 2009	On going mulching & spraying program.
Truck washing (H)	wash within two days of ice/snow storm ending	On-going	John Lyons	All equipment washed within 2 days of the ending of snow storms.	All -2015- All equipment washed within required time frame.
Adopt-A-Road Program on arterial roads (H,L)	As request come in for an adoption	On-going	John Lyons	No new roads in adoption program for -2015.	4 Total roads in program
FACILITIES DEPARTMENT					
Perform annual maintenance and improvements to all sites under the jurisdiction of the Facilities Management Department of St. Charles County	Annual maintenance and Improvements	2016-2017	Jim Irlander		Completed annual maintenance to preserve the hillside backing the firing range at the Police Training Center in Defiance, MO. Continued improvements to turf of the Executive Building grounds to prevent soil erosion.
Continue the efforts to stabilize the western area of the Pet Adoption site that is adjacent to Dardenne Creek.	Annual maintenance and Improvements	2016-2017			Annual maintenance performed.
Annual Training of Facilities Dept. employees	40 employees	On-going	Jim Irlander		Annual Training performed.
Perform the majority of its operations within the controlled environments of the County buildings. The County will continue to maintain its building systems and infrastructure in compliance with local, state, and federal regulations.	Operations	Ongoing	Jim Irlander		Program continued without changes.
Sites under the jurisdiction of the Facilities Management Department of St. Charles County will continue to be inspected periodically by its Field / Property Maintenance Workers.	Annual inspections	Ongoing	Jim Irlander		Program continued without changes.
Perform maintenance activities on various storm water systems. The existing Maintenance Work Order system will be utilized to track the work performed.	Annual maintenance and Improvements	Ongoing	Jim Irlander	Increased frequency during the spring.	Program continued without changes.
Continue to have County Fleet Vehicles serviced under contract by an Automotive Shop licensed to conduct business within the County.	Operations	Ongoing	Jim Irlander	Maintenance Agreements managed by the Finance Department.	Program continued without changes.
Continue to store power equipment in the garage of the Criminal Justice Center. Facilities Management will strive to perform all maintenance on its power equipment in the garage of the Criminal Justice Center.	Operations	Ongoing	Jim Irlander		Program continued without changes.