

MS4 SWPPP Application for Reauthorization

for the NPDES/SDS General Small Municipal Separate Storm Sewer System (MS4) Permit MNR040000 reissued with an effective date of August 1, 2013 Stormwater Pollution Prevention Program (SWPPP) Document

Doc Type: Permit Application

Instructions: This application is for authorization to discharge stormwater associated with Municipal Separate Storm Sewer Systems (MS4s) under the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) Permit Program. No fee is required with the submittal of this application. Please refer to "Example" for detailed instructions found on the Minnesota Pollution Control Agency (MPCA) MS4 website at http://www.pca.state.mn.us/ms4.

Submittal: This MS4 SWPPP Application for Reauthorization form must be submitted electronically via e-mail to the MPCA at ms4permitprogram.pca@state.mn.us from the person that is duly authorized to certify this form. All questions with an asterisk (*) are required fields. All applications will be returned if required fields are not completed.

Questions: Contact Claudia Hochstein at 651-757-2881 or claudia.hochstein@state.mn.us, Dan Miller at 651-757-2246 or daniel.miller@state.mn.us, or call toll-free at 800-657-3864.

General Contact Information (*Required fields)

MS4 permittee name: Cascade Township	р		*County: Olmsted
(city, county, munici	pality, government agency o	r other entity)	
Mailing address: 2025 75 th St NE			
ity: Rochester	*State:	MN	*Zip code: _55906
hone (including area code):507-261-8909	9	*E-mail: towncl	erk.cascadetownship@gmail.com
S4 General contact (with Stormwate	Pollution Prevention F	Program [SWPP	P] implementation responsibility
ast name: Heathman		*First name:	Robert
(department head, MS4 coordin	ator, consultant, etc.)		
itle: Supervisor			
failing address: 2025 75 th St. NE			
City: Rochester	*State:	MN	*Zip code: _55906
hone (including area code): 507-280-774	2	*E-mail: rahea	athman@gmail.com
reparer information (complete if SWI	PPP application is prep	ared by a party	other than MS4 General contact
ast name:	Tr application to prop	, , ,	
(department head, MS4 coording	ator, consultant, etc.)	_ That hame.	-
tle:			
ailing address:			
	_		Zip code:

Verification

- I seek to continue discharging stormwater associated with a small MS4 after the effective date of this Permit, and shall submit this MS4 SWPPP Application for Reauthorization form, in accordance with the schedule in Appendix A, Table 1, with the SWPPP document completed in accordance with the Permit (Part II.D.). X Yes
- 2. I have read and understand the NPDES/SDS MS4 General Permit and certify that we intend to comply with all requirements of the Permit. X Yes

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Certification (All fields are required)

 \boxtimes

Yes - I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted.

I certify that 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 civil and criminal penalties.

This certification is required by Minn. Stat. §§ 7001.0070 and 7001.0540. The authorized person with overall, MS4 legal responsibility must certify the application (principal executive officer or a ranking elected official).

By typing my name in the following box, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing my application.

Name:	Robert A. Heathman (This document has been electronically signed)					
Title: _	Supervisor		Date	(mm/dd/yyyy):	12/30/2013	3
Mailing	address: _2025 75 th St. NE					
City:	Rochester	State:	MN		Zip code:	55906
Phone	(including area code): 507-280-7742		E-mail: ı	aheathman@g	mail.com	

Note: The application will not be processed without certification.

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Stormwater Pollution Prevention Program Document

Ι.

II.

Pa	rtn	nerships: (Part II.D.1)			
A.	req con esta	List the regulated small MS4(s) with which you have established a partnership in order to satisfy one or more requirements of this Permit. Indicate which Minimum Control Measure (MCM) requirements or other program components that each partnership helps to accomplish (List all that apply). Check the box below if you currently have n established partnerships with other regulated MS4s. If you have more than five partnerships, hit the tab key after the la line to generate a new row.			
	\boxtimes	No partnerships with regulated small MS4s			
	Na	Name and description of partnership MCI	M/Other permit requirements involved		
В.	MS	you have additional information that you would like to commu S4(s), provide it in the space below, or include an attachment provention: MS4NameHere_Partnerships.	nicate about your partnerships with other regulated small to the SWPPP Document, with the following file naming		
		ascade Township collaborates with the City of Rochester and paterials.	Olmsted County regarding SWPPP programs and		
	ma	dionalo.			
De	ser	ription of Regulatory Mechanisms: (Part II.E	2)		
IIIi	cit d	discharges			
A.	exc	o you have a regulatory mechanism(s) that effectively prohibitions those non-stormwater discharges authorized under the			
	١.	 If yes: a. Check which type of regulatory mechanism(s) your or 	ranization has (check all that apply):		
		☐ Ordinance ☐ Contract language	gameation rate (chook all that apply).		
		☐ Policy/Standards☐ Permits☐ Rules			
		Other, explain:			
		 Provide either a direct link to the mechanism selected form; or if your regulatory mechanism is either an Ord 			
		Citation:			
		Direct link:			
		☐ Check here if attaching an electronic copy of your r convention: MS4NameHere_IDDEreg.	egulatory mechanism, with the following file naming		
	2.	If no:	a taken to accure that within 12 months of the data		
		Describe the tasks and corresponding schedules that will be permit coverage is extended, this permit requirement is me			
		Within twelve (12) months of the permit being granted Cas Ordinance regulating non-stormwater discharges	cade Township will draft and record an Illicit Discharge		

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Construction site stormwater runoff control

 A. Do you have a regulatory mechanism(s) that establishes requirements for erosion and sediment controls and was controls? ☐ Yes ☐ No 							
	1.	lf y	es:				
		a.	Check which <i>type</i> of regulatory mechanism(s) your organization has (check all that apply): ☐ Ordinance ☐ Contract language ☐ Permits ☐ Rules ☐ Other, explain:				
		b.	Provide either a direct link to the mechanism selected above or attach it as an electronic deform; or if your regulatory mechanism is either an Ordinance or a Rule, you may provide a				
			Citation:				
			Direct link:				
			section 10.20 of http://cascadetownship.files.wordpress.com/2012/12/cascade-township-z 2012-update-as-recorded.pdf	oning-ordinance-			
			□ Check here if attaching an electronic copy of your regulatory mechanism, with the follow convention: MS4NameHere_CSWreg.	ving file naming			
B.			regulatory mechanism at least as stringent as the MPCA general permit to Discharge Storm on struction Activity (as of the effective date of the MS4 Permit)?	water Associated			
	If y	ou a	inswered yes to the above question, proceed to C.				
	sch	nedu	swered no to either of the above permit requirements listed in A. or B., describe the tasks and corresponding is that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit ents are met:				
Within twelve (12) months of the permit being granted Cascade Township will update the township plated ordinance to include by reference the requirements of the MPCA general permit to discharge stormwark with construction activity							
C.	act	ivity	yes or no to indicate whether your regulatory mechanism(s) requires owners and operators to develop site plans that incorporate the following erosion and sediment controls and waste ed in the Permit (Part III.D.4.a.(1)-(8)), and as listed below:				
	1.	Be	st Management Practices (BMPs) to minimize erosion.				
	2.	BM	IPs to minimize the discharge of sediment and other pollutants.				
	3.	BM	IPs for dewatering activities.				
	4.	Site	e inspections and records of rainfall events	☐ Yes ☐ No			
	5.	BM	IP maintenance	☐ Yes			
	6.	Ма	nagement of solid and hazardous wastes on each project site.	Yes □ No			
	7.		al stabilization upon the completion of construction activity, including the use of perennial getative cover on all exposed soils or other equivalent means.	⊠ Yes □ No			
	8.	Cri	teria for the use of temporary sediment basins.	⊠ Yes □ No			
	If you answered no to any of the above permit requirements, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met:						
	ora	linar	twelve (12) months of the permit being granted Cascade Township will update the township noce to include by reference the requirements of the MPCA general permit to discharge storm nstruction activity				
Po	st-c	ons	truction stormwater management				
A.			have a regulatory mechanism(s) to address post-construction stormwater management action $\hfill\square$ No	vities?			
	1.	lf y	es:				
		a.	Check which <i>type</i> of regulatory mechanism(s) your organization has (check all that apply): ☐ Ordinance ☐ Contract language ☐ Permits ☐ Rules				

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				∐ Other, explain:		
		b.	forr	vide either a direct link to the mechanism selected above or attach it as an electronic docun; or if your regulatory mechanism is either an Ordinance or a Rule, you may provide a cital		nis
			Cita	ition:		
			Dire	ect link:		
			03.	tions 5.7 & 6.4 of http://cascadetownship.files.wordpress.com/2010/07/cascadefinalsubdivioldf and section 10.20 and 10.21 of http://cascadetownship.files.wordpress.com/2012/12/caing-ordinance-2012-update-as-recorded.pdf		
				Check here if attaching an electronic copy of your regulatory mechanism, with the following convention: MS4NameHere_PostCSWreg.	j file nami	ng
B.				or no below to indicate whether you have a regulatory mechanism(s) in place that meets the sas described in the Permit (Part III.D.5.a.):	he followir	ng
	1.	site	e pla	an review: Requirements that owners and/or operators of construction activity submit ns with post-construction stormwater management BMPs to the permittee for review and al, prior to start of construction activity.	⊠ Yes	☐ No
	2.	pra for	mbin actice estry	ions for post construction stormwater management: Requires the use of any lation of BMPs, with highest preference given to Green Infrastructure techniques and les (e.g., infiltration, evapotranspiration, reuse/harvesting, conservation design, urban y, green roofs, etc.), necessary to meet the following conditions on the site of a lation activity to the Maximum Extent Practicable (MEP):		
		a.		r new development projects – no net increase from pre-project conditions (on an annual erage basis) of:	☐ Yes	⊠ No
			1) 2) 3)	Stormwater discharge volume, unless precluded by the stormwater management limitations in the Permit (Part III.D.5.a(3)(a)). Stormwater discharges of Total Suspended Solids (TSS). Stormwater discharges of Total Phosphorus (TP).		
		b.		r redevelopment projects – a net reduction from pre-project conditions (on an annual erage basis) of:	☐ Yes	⊠ No
			1) 2) 3)			
	3.	Sto	orm۱	water management limitations and exceptions:		
		a.	Lim	itations		
			1)	Prohibit the use of infiltration techniques to achieve the conditions for post-construction stormwater management in the Permit (Part III.D.5.a(2)) when the infiltration structural stormwater BMP will receive discharges from, or be constructed in areas: a) Where industrial facilities are not authorized to infiltrate industrial stormwater under an NPDES/SDS Industrial Stormwater Permit issued by the MPCA. b) Where vehicle fueling and maintenance occur.	☐ Yes	⊠ No
				 c) With less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock. d) Where high levels of contaminants in soil or groundwater will be mobilized by the infiltrating stormwater. 		
			2)	Restrict the use of infiltration techniques to achieve the conditions for post-construction stormwater management in the Permit (Part III.D.5.a(2)), without higher engineering review, sufficient to provide a functioning treatment system and prevent adverse impacts to groundwater, when the infiltration device will be constructed in areas: a) With predominately Hydrologic Soil Group D (clay) soils. b) Within 1,000 feet up-gradient, or 100 feet down-gradient of active karst features. c) Within a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, subp. 13. d) Where soil infiltration rates are more than 8.3 inches per hour.	Yes	⊠ No
			3)	For linear projects where the lack of right-of-way precludes the installation of volume control practices that meet the conditions for post-construction stormwater management in the Permit (Part III.D.5.a(2)), the permittee's regulatory mechanism(s) may allow exceptions as described in the Permit (Part III.D.5.a(3)(b)). The permittee's regulatory	☐ Yes	⊠ No

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 $\label{eq:mechanism} \mbox{mechanism(s) shall ensure that a reasonable attempt be made to obtain right-of-way during the project planning process.}$

	4.	stor acti	mwa vity a	on provisions: The permittee's regulatory mechanism(s) shall ensure that any ater discharges of TSS and/or TP not addressed on the site of the original construction are addressed through mitigation and, at a minimum, shall ensure the following ments are met:				
		a.	Miti 1)	igation project areas are selected in the following order of preference: Locations that yield benefits to the same receiving water that receives runoff from the original construction activity.	☐ Yes	⊠ No		
			2)	Locations within the same Minnesota Department of Natural Resource (DNR) catchment area as the original construction activity.				
			3)	Locations in the next adjacent DNR catchment area up-stream				
			4)	Locations anywhere within the permittee's jurisdiction.				
		b.	retr	igation projects must involve the creation of new structural stormwater BMPs or the offit of existing structural stormwater BMPs, or the use of a properly designed regional actural stormwater BMP.	☐ Yes	⊠ No		
		C.	be	utine maintenance of structural stormwater BMPs already required by this permit cannot used to meet mitigation requirements of this part.	☐ Yes	⊠ No		
		d.	cor	igation projects shall be completed within 24 months after the start of the original struction activity.	☐ Yes	⊠ No		
		e.	ma	e permittee shall determine, and document, who will be responsible for long-term intenance on all mitigation projects of this part.	☐ Yes			
		f.	for the per	ne permittee receives payment from the owner and/or operator of a construction activity mitigation purposes in lieu of the owner or operator of that construction activity meeting conditions for post-construction stormwater management in Part III.D.5.a(2), the mittee shall apply any such payment received to a public stormwater project, and all jects must be in compliance with Part III.D.5.a(4)(a)-(e).	☐ Yes	⊠ No		
	5.	med and BM con only that	chan owr Ps n ditio / inc are	erm maintenance of structural stormwater BMPs: The permittee's regulatory lism(s) shall provide for the establishment of legal mechanisms between the permittee ners or operators responsible for the long-term maintenance of structural stormwater of owned or operated by the permittee, that have been implemented to meet the ns for post-construction stormwater management in the Permit (Part III.D.5.a(2)). This ludes structural stormwater BMPs constructed after the effective date of this permit and directly connected to the permittee's MS4, and that are in the permittee's jurisdiction. all mechanism shall include provisions that, at a minimum:				
		a.	ope stru	by the permittee to conduct inspections of structural stormwater BMPs not owned or crated by the permittee, perform necessary maintenance, and assess costs for those actural stormwater BMPs when the permittee determines that the owner and/or operator hat structural stormwater BMP has not conducted maintenance.	☐ Yes	⊠ No		
		b.	res	lude conditions that are designed to preserve the permittee's right to ensure maintenance ponsibility, for structural stormwater BMPs not owned or operated by the permittee, when se responsibilities are legally transferred to another party.	☐ Yes	⊠ No		
		C.	site con stor imp	lude conditions that are designed to protect/preserve structural stormwater BMPs and features that are implemented to comply with the Permit (Part III.D.5.a(2)). If site infigurations or structural stormwater BMPs change, causing decreased structural rmwater BMP effectiveness, new or improved structural stormwater BMPs must be blemented to ensure the conditions for post-construction stormwater management in the rmit (Part III.D.5.a(2)) continue to be met.	☐ Yes	⊠ No		
	be t	taker	to a	ered no to any of the above permit requirements, describe the tasks and corresponding sch assure that, within twelve (12) months of the date permit coverage is extended, these permi				
	are met: Within twelve (12) months of the permit being granted Cascade Township will draft and record a township ordinance to satisfy the MS4 general permit requirements for post construction storm water management							
En	for	cen	nen	t Response Procedures (ERPs): (Part II.D.3)				
A.	Do	you	have	e existing ERPs that satisfy the requirements of the Permit (Part III.B.)?	☐ Yes	⊠ No		

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III.

- 1. If **yes**, attach them to this form as an electronic document, with the following file naming convention: *MS4NameHere ERPs*.
- 2. If **no**, describe the tasks and corresponding schedules that will be taken to assure that, with twelve (12) months of the date permit coverage is extended, these permit requirements are met:

No later than 12/30/2014 an Illicit Discharge ordinance will be drafted and recorded which will include enforcement procedures compliant with Permit Part III.B. No later than 12/30/2014 the construction and post construction ordinances will be updated to include the relevant enforcement requirements of Part III.

B. Describe your ERPs:

IV. Storm Sewer System Map and Inventory: (Part II.D.4.)

Α.	Describe	how you	manage your	storm sewer	system i	map and	inventory:

	Cascade Township's storm sewer system consists of road ditches and culverts. The storm sewer system via annual road inspections, twice a year ditch mowings, and routine inspection by road maintenance st The storm sewer map is the same as the town road map.						
B.	Answer yes or no to indicate whether your storm sewer system map addresses the following requirement (Part III.C.1.a-d), as listed below:						
	1.	The permittee's entire small MS4 as a goal, but at a minimum, all pipes 12 inches or greater in diameter, including stormwater flow direction in those pipes.	☐ Yes	⊠ No			
	2.	Outfalls, including a unique identification (ID) number assigned by the permittee, and an associated geographic coordinate.	☐ Yes	⊠ No			
	3.	Structural stormwater BMPs that are part of the permittee's small MS4.	☐ Yes	⊠ No			
	4.	All receiving waters.	☐ Yes	⊠ No			
	•	ou answered no to any of the above permit requirements, describe the tasks and corresponding sch taken to assure that, within 12 months of the date permit coverage is extended, these permit require					
		thin tweleve (12) months of the date permit coverage is extended, a map of the storm sewer system h unique identifiers for outfall locations and receiving waters/structural stormwater BMPs if applicable		afted			
C.	. Answer yes or no to indicate whether you have completed the requirements of 2009 Minnesota Session L Sec. 28: with the following inventories, according to the specifications of the Permit (Part III.C.2.ab.), incl						
	1.	All ponds within the permittee's jurisdiction that are constructed and operated for purposes of water quality treatment, stormwater detention, and flood control, and that are used for the collection of stormwater via constructed conveyances.	☐ Yes	⊠ No			
	2.	All wetlands and lakes, within the permittee's jurisdiction, that collect stormwater via constructed conveyances.	⊠ Yes	☐ No			
D.		swer yes or no to indicate whether you have completed the following information for each feature in A unique identification (ID) number assigned by the permittee. A geographic coordinate. Type of feature (e.g., pond, wetland, or lake). This may be determined by using best professional	ventoried. Yes Yes Yes Yes	⊠ No ⊠ No			
	•	judgment. ou have answered yes to all above requirements, and you have already submitted the Pond Invento CA, then you do not need to resubmit the inventory form below.	ry Form t	o the			
	If you answered no to any of the above permit requirements, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met:						
		scade Township does not own any storm water ponds. By 12/30/2014 an inventory of all Private por wnship will be completed.	nds in Cas	scade			
E.	on spe	swer yes or no to indicate if you are attaching your pond, wetland and lake inventory to the MPCA the form provided on the MPCA website at: http://www.pca.state.mn.us/ms4 , according to the ecifications of Permit (Part III.C.2.b.(1)-(3)). Attach with the following file naming convention: https://www.pca.state.mn.us/ms4 , according to the ecifications of Permit (Part III.C.2.b.(1)-(3)). Attach with the following file naming convention: https://www.pca.state.mn.us/ms4 , according to the ecifications of Permit (Part III.C.2.b.(1)-(3)). Attach with the following file naming convention:	☐ Yes	⊠ No			
		ou answered no , the inventory form must be submitted to the MPCA MS4 Permit Program within months of the date permit coverage is extended.					

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V. Minimum Control Measures (MCMs) (Part II.D.5)

A. MCM1: Public education and outreach

The Permit requires that, within 12 months of the date permit coverage is extended, existing permittees revise their education and outreach program that focuses on illicit discharge recognition and reporting, as well as other specifically selected stormwater-related issue(s) of high priority to the permittee during this permit term. Describe your current educational program, including any high-priority topics included:

Cascade Township is primarily a suburban residential and agricultural township. There is very limited commercial activity. Our current educational program consists of access to related materials via the township website and a presentation at the annual meeting.

List the categories of BMPs that address your public education and outreach program, including the distribution of educational materials and a program implementation plan. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the U.S. Environmental Protection Agency's (EPA) Measurable Goals Guidance for Phase II Small MS4s (http://www.epa.gov/npdes/pubs/measurablegoals.pdf).

If you have more than five categories, hit the tab key after the last line to generate a new row.

Established BMP categories	Measurable goals and timeframes
Website	Provide links to state storm water resources. Record at least 20 website hits per quarter
Annual township newsletter	Provide annual distribution to all recorded township households
BMP categories to be implemented	Measurable goals and timeframes
Website link to Illicit discharge ordinance	Ordinance released to the website by 12/30/2014

3. Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

Town Board Supervisor

B. MCM2: Public participation and involvement

The Permit (Part III.D.2.a.) requires that, within 12 months of the date permit coverage is extended, existing permittees shall revise their current program, as necessary, and continue to implement a public participation/involvement program to solicit public input on the SWPPP. Describe your current program:

Cascade Township currently accepts public input via monthly township meetings. Public input is solicited at the annual township meeting.

List the categories of BMPs that address your public participation/involvement program, including solicitation and documentation of public input on the SWPPP. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the EPA's Measurable Goals Guidance for Phase II Small MS4s (http://www.epa.gov/npdes/pubs/measurablegoals.pdf). If you have more than five categories, hit the tab key after the last line to generate a new row.

Established BMP categories	Measurable goals and timeframes
Annual meeting	Conduct a public input session once per year at the annual meeting

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	ВМІ	P categories to be implemented	Measurable goals and timeframes			
	Plar	nning Commission membership	Advertise on the township website the need for serve on the township planning commission charafting the storm water regulations. Complete	arged wit	h	
	-					
3.	Doy	you have a process for receiving and documenting ci	tizen input? ⊠ Yes □ No			
	-	ou answered no to the above permit requirement, des	·	at will be t	aken to	
		ure that, within 12 months of the date permit coverage				
4.	Prov	vide the name or the position title of the individual(s) M:	who is responsible for implementing and/or coord	dinating th	nis	
	Тои	n Board Supervisor				
C.	MC	M 3: Illicit discharge detection and elimination	on			
1.		Permit (Part III.D.3.) requires that, within 12 months o		ormittoos	rovico	
١.	their	r current program as necessary, and continue to imple harges into the small MS4. Describe your current prog	ment and enforce a program to detect and elimina		ievise	
		current detection program relies upon township emp township maintenance inspections.	loyees/supervisors to watch for illicit discharges	during all	road	
2.		es your Illicit Discharge Detection and Elimination Pro rt III.D.3.cg.)?	gram meet the following requirements, as found	in the Per	rmit	
	a.	Incorporation of illicit discharge detection into all insunder the Permit (Part III.D.6.ef.)Where feasible, i during dry-weather conditions (e.g., periods of 72 o	llicit discharge inspections shall be conducted	☐ Yes	⊠ No	
	b.	Detecting and tracking the source of illicit discharge also include use of mobile cameras, collecting and procedures that may be effective investigative tools	analyzing water samples, and/or other detailed	☐ Yes	⊠ No	
	c. Training of all field staff, in accordance with the requirements of the Permit (Part III.D.6.g.(2)), in illicit discharge recognition (including conditions which could cause illicit discharges), and reporting illicit discharges for further investigation.					
	d.	Identification of priority areas likely to have illicit dis land use associated with business/industrial activiti- identified in the past, and areas with storage of larg result in an illicit discharge.	es, areas where illicit discharges have been	☐ Yes	⊠ No	
	e.	Procedures for the timely response to known, suspen	cted, and reported illicit discharges.	☐ Yes	⊠ No	
	f.	Procedures for investigating, locating, and eliminating	g the source of illicit discharges.	☐ Yes	⊠ No	
	g.	Procedures for responding to spills, including emergentering the small MS4. The procedures shall also in Minnesota Department of Public Safety Duty Officer, leak as defined in Minn. Stat. § 115.061.	clude the immediate notification of the	☐ Yes	⊠ No	
	h.	When the source of the illicit discharge is found, the Permit (Part III.B.) to eliminate the illicit discharge an		☐ Yes	⊠ No	
		ou answered no to any of the above permit requirement to assure that, within 12 months of the date permit				

Within twelve (12) months of the extension of permit coverage, Cascade Township will draft an IDDE program to satisfy the permit requirements.

3. List the categories of BMPs that address your illicit discharge, detection and elimination program. Use the first table for

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categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the EPA's Measurable Goals Guidance for Phase II Small MS4s (http://www.epa.gov/npdes/pubs/measurablegoals.pdf).

If you have more than five categories, hit the tab key after the last line to generate a new row.

	Est	abli	shed BMP categories	Measurable goals and timeframes			
	Anr	nual	meeting	Annually review with township residents illicit discharge			
-							
	BM	IP ca	ategories to be implemented	Measurable goals and timeframes			
	We	bsite		By 12/30/2014 update the township website to information on the definition, detection and pre discharge.		illicit	
	Em	ploy	ee training	By 12/30/2015 update the training package for employees for illicit discharge detection and ins			
4.			have procedures for record-keeping within your I d within the Permit (Part III.D.3.h.)?		program a	as	
If you answered no , indicate how you will develop procedures for record-keeping of your Illicit Discharge, Dete Elimination Program, within 12 months of the date permit coverage is extended:					Detection	and	
	A township policy and recording templates will be drafted consistent with the recording requirements of the permit. All township staff will be trained on how to follow and use the templates for recording violations.					All	
5.	Pro MC		the name or the position title of the individual(s)	who is responsible for implementing and/or coord	dinating th	is	
	To	vn B	coard Supervisor				
D.	МС	:M 4	: Construction site stormwater runoff co	ntrol			
1.	rev	ise tl	rmit (Part III.D.4) requires that, within 12 months on their current program, as necessary, and continue program. Describe your current program:				
		scaa mit	le Township currently uses a checklist for all cons	struction that includes adherence to the requirem	ents of the	e	
2.			our program address the following BMPs for consmit (Part III.D.4.b.):	truction stormwater erosion and sediment contro	l as requir	ed in	
	a.		ve you established written procedures for site pla astruction activity?	n reviews that you conduct prior to the start of	Yes	☐ No	
	b.	cor	es the site plan review procedure include notificat istruction activity that they need to apply for and o mit to <i>Discharge Stormwater Associated with Co</i>	obtain coverage under the MPCA's general	⊠ Yes	☐ No	
	C.	nor	es your program include written procedures for re acompliance or other stormwater related information olic to the permittee?		⊠ Yes	☐ No	
	d.		ve you included written procedures for the followinpliance with your regulatory mechanism(s):	ng aspects of site inspections to determine			
		1)	Does your program include procedures for ident		⊠ Yes	☐ No	
		2)	Does your program identify a frequency at which inspections?		⊠ Yes	□No	
		3)	Does your program identify the names of individed conducting construction site inspections?	dual(s) or position titles of those responsible for		☐ No	

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	4) Does your program include a checklist or other written means to document construction site ☐ Yes ☐ No inspections when determining compliance?					
	e. Does your program document and retain construction	n project name, location, total acreage to be	⊠ Yes □ No			
	disturbed, and owner/operator information?f. Does your program document stormwater-related condetermine project approval or denial?	mments and/or supporting information used to	⊠ Yes □ No			
	g. Does your program retain construction site inspection	n checklists or other written materials used to	⊠ Yes □ No			
	document site inspections? If you answered no to any of the above permit requireme taken to assure that, within 12 months of the date permit					
3.	List the categories of BMPs that address your construction table for categories of BMPs that you have established are to implement over the course of the permit term.					
	Include the measurable goals with appropriate timeframe completed. In addition, provide interim milestones and the and/or maintain the BMPs. Refer to the EPA's <i>Measurable</i> (http://www.epa.gov/npdes/pubs/measurablegoals.pdf). If after the last line to generate a new row.	e frequency of action in which the permittee will le Goals Guidance for Phase II Small MS4s	implement			
	Established BMP categories	Measurable goals and timeframes				
•	TCPA construction policy	Provide to every permit applicant. The timefran	ne is continuous.			
-						
· s	BMP categories to be implemented	Measurable goals and timeframes				
	Website	Within two years update the township website educational material related to construction sto				
-						
4.	Provide the name or the position title of the individual(s) v MCM:	who is responsible for implementing and/or coord	dinating this			
	Town Board Supervisor					
E.	MCM 5: Post-construction stormwater managen	nent				
1.						
	Current policies and checklists used in the approval process include provision for post construction storm water managementincluding the construction of private ponds. Construction permits are not approved without provision for post construction management and financial guarantees					
2.						
3.	Answer yes or no to indicate whether you have the follow post-construction stormwater management according to t					
	a. Any supporting documentation that you use to determ III.D.5.a), including the project name, location, owner checklists used for conducting site plan reviews, and compliance?	and operator of the construction activity, any	⊠ Yes □ No			
	b. All supporting documentation associated with mitigat		⊠ Yes □ No			
	c. Payments received and used in accordance with Per		⊠ Yes □ No			
	d. All legal mechanisms drafted in accordance with the	Permit (Part III.D.5.a.(5)), including date(s) of	🛛 Yes 🔲 No			

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the agreement(s) and names of all responsible parties involved?

If you answered **no** to any of the above permit requirements, describe the steps that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met.

4. List the categories of BMPs that address your post-construction stormwater management program. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the EPA's *Measurable Goals Guidance for Phase II Small MS4s* (http://www.epa.gov/npdes/pubs/measurablegoals.pdf). If you have more than five categories, hit the tab key after the last line to generate a new row.

Established BMP categories	Measurable goals and timeframes
Checklists	All permits require the completion of a construction checklist that includes post construction management. Ongoing/Continuous
Final Inspection	All construction requires final inspection and documentation prior to acceptance by the township. Ongoing/Continuous
Developer's agreements	All platted construction requires a developer's agreement that specifies financial guarantees and legal redress for non-compliance. Ongoing/Continuous
BMP categories to be implemented	Measurable goals and timeframes
Pond maintenance agreement	Within two years draft and institute a post construction pond maintenance agreement for all new construction which requires storm water ponds.

5. Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

Town Board Supervisor

F. MCM 6: Pollution prevention/good housekeeping for municipal operations

1. The Permit (Part III.D.6.) requires that, within 12 months of the date permit coverage is extended, existing permittees shall revise their current program, as necessary, and continue to implement an operations and maintenance program that prevents or reduces the discharge of pollutants from the permittee owned/operated facilities and operations to the small MS4. Describe your current program:

Cascade Township has no permittee owned or operated facilities in the MS4 Operations are limited to winter sand/salt application, tree trimming and ditch cleaning

2.	Do you have a facilities inventor	y as outlined in the Permi	t (Part III.D.6.a.)?	⊔ Yes ⊠ N

3. If you answered **no** to the above permit requirement in question 2, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, this permit requirement is met:

We have no facilities to inventory

4. List the categories of BMPs that address your pollution prevention/good housekeeping for municipal operations program. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the

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If you have more than five categories, hit the tab key after the last line to generate a new row.

Established BMP categories			Measurable goals and timeframes					
_	Stree	et sweeping	At the end of the winter season, excess salt/sand is swept from the roadways. Once per year Township staff monitor road ditches for debris and pollutants during their daily travels. Clean/remove as needed					
_[Ditch	n cleaning						
-								
-								
E	змр	categories to be implemented	Measurable goals and timeframes					
		ride reduction	Institute use of a salt brine roadway treatmeed for salt/sand mix. Implement during 2 season					
_								
_								
5.	Doe	pes discharge from your MS4 affect a Source Water	Protection Area (Permit Part III.D.6.c.)?	☐ Yes	⊠ No			
	a.	If no , continue to 6.						
	b. If yes, the Minnesota Department of Health (MDH) is in the process of mapping the following items. Maps are available at http://www.health.state.mn.us/divs/eh/water/swp/maps/index.htm . Is a map including the following items available for your MS4:							
		Wells and source waters for drinking water so vulnerable under Minn. R. 4720.5205, 4720.5		☐ Yes	□No			
		 Source water protection areas for surface into assessments conducted by or for the Minnes Safe Drinking Water Act, U.S.C. §§ 300j – 13 	ota Department of Health under the federal	☐ Yes	□ No			
	C.	Have you developed and implemented BMPs to p sources?	protect any of the above drinking water	☐ Yes	☐ No			
6.	TF	lave you developed procedures and a schedule for the procedures and a schedule for the procedures and a schedule for the procedures and treatment of a stormwater, according to the procedure and treatment of stormwater, according to the procedure and treatment of stormwater.	perated ponds constructed and used for the	☐ Yes	⊠ No			
7.								
8.		lave you developed and implemented a stormwater mployee's job duties that:	management training program commensura	te with ea	ch			
	a.	. Addresses the importance of protecting water qu	uality?	☐ Yes	⊠ No			
	b.	. Covers the requirements of the permit relevant to	o the duties of the employee?	☐ Yes	⊠ No			
	C.	Includes a schedule that establishes initial training recurring training intervals for existing employees practices, techniques, or requirements?		☐ Yes	⊠ No			
9.		you keep documentation of inspections, maintenar art III.D.6.h.(1)-(5))?	nce, and training as required by the Permit	☐ Yes	⊠ No			
	cor	you answered no to any of the above permit require rresponding schedules that will be taken to assure t ese permit requirements are met:						
6. Cascade Township does not own/operate any stormwater ponds.								

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- 7. Cascade Township does not have any facilities, storage, stockpiles, or material handling within the township. The town facility is in an adjacent township.
- 7-9 Within twelve (12) months of the permit coverage. Cascade Township will draft inspection, training and documentation procedures/policies consistent with the requirements of the permit.
- Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

Town Board Supervisor

Compliance Schedule for an Approved Total Maximum Daily Load (TMDL) with an Applicable Waste Load Allocation (WLA) (Part II.D.6.)

Α.	Do you have an approved TMDL with a Waste Load Allocation (WLA) prior to the effective date	
	of the Permit?	

- 1. If **no**, continue to section VII.
- 2. If yes, fill out and attach the MS4 Permit TMDL Attachment Spreadsheet with the following naming convention: MS4NameHere_TMDL.

This form is found on the MPCA MS4 website: http://www.pca.state.mn.us/ms4.

VII. Alum or Ferric Chloride Phosphorus Treatment Systems (Part II.D.7.)

- ☐ Yes ☒ No Do you own and/or operate any Alum or Ferric Chloride Phosphorus Treatment Systems which are regulated by this Permit (Part III.F.)?
 - 1. If **no**, this section requires no further information.
 - 2. If yes, you own and/or operate an Alum or Ferric Chloride Phosphorus Treatment System within your small MS4, then you must submit the Alum or Ferric Chloride Phosphorus Treatment Systems Form supplement to this document, with the following naming convention: MS4NameHere_TreatmentSystem.

This form is found on the MPCA MS4 website: http://www.pca.state.mn.us/ms4.

VIII. Add any Additional Comments to Describe Your Program

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TMDL Wasteload Allocation Excel Spreadsheet PART II.D.6.a.-e.

Copy and paste from the Master List MS4 TMDL Spreadsheet for your MS4 to the space below.

Attach this completed form with your SWPPP Document at the time of submittal. At a minimum, provide all of the information "*" items (TMDL Project Name, Type of WLA, Numeric WLA, Unit, Flow Condition, and Pollutant of Concern).

		TAID! and an artist		T ()4// A *	No	Unit*	Percent	Fl		B-II-d-ut-of	
Permittee name	Preferred ID	TMDL project name*	Waterbody ID	Type of WLA*	Numeric WLA*	Unit*	reduction	Flow condition*	Waterbody name Zumbro River; Cold	Pollutant of concern*	Date approved
Occasion Township	140400074	Lauren Minelesiani Blues Pania Fanal Californi Bastoria TMDI	07040004 500	0-1	7.00	10^12		I II a b	Creek to West Indian	FI O-116	4/5/0000
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-502	Categorical	7.30	organisms/month		High	Creek Zumbro River; Cold	Fecal Coliform	4/5/2006
						10^12			Creek to West Indian		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-502	Categorical	3.39	organisms/month		Moist	Creek Zumbro River; Cold	Fecal Coliform	4/5/2006
						10^12			Creek to West Indian		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-502	Categorical	2.34	organisms/month		Mid-Range	Creek Zumbro River: Cold	Fecal Coliform	4/5/2006
						10^12			Creek to West Indian		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-502	Categorical	1.37	organisms/month		Dry	Creek	Fecal Coliform	4/5/2006
						10^12			Zumbro River; Cold Creek to West Indian		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-502	Categorical	1.05	organisms/month		Low	Creek	Fecal Coliform	4/5/2006
						10^12			South Fork Zumbro River: Cascade Creek to		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-507	Categorical	10.68	organisms/month		High	Lake Zumbro	Fecal Coliform	4/5/2006
						10^12			South Fork Zumbro River; Cascade Creek to		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-507	Categorical	3.76	organisms/month		Moist	Lake Zumbro	Fecal Coliform	4/5/2006
						10^12			South Fork Zumbro River; Cascade Creek to		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-507	Categorical	2.23			Mid-Range	Lake Zumbro	Fecal Coliform	4/5/2006
						10^12			South Fork Zumbro		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-507	Categorical	0.67	10^12 organisms/month		Dry	River; Cascade Creek to Lake Zumbro	Fecal Coliform	4/5/2006
·				· ·					South Fork Zumbro		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-507	Categorical	0.00	10^12 organisms/month		Low	River; Cascade Creek to Lake Zumbro	Fecal Coliform	4/5/2006
					-				Zumbro River; West		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-501	Categorical	7.31	10^12 organisms/month		High	Indian Creek to Mississippi River	Fecal Coliform	4/5/2006
Gascade Township	1000071	Lower Mississippi (Arci Basii) Cear Comonii Bacteria (MDE	07040004-301	Odicgorical	7.51	organisms/monar		riigii	Zumbro River; West	i ccai comorni	4/3/2000
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-501	Categorical	2.40	10^12 organisms/month		Moist	Indian Creek to Mississippi River	Fecal Coliform	4/5/2006
Cascade Township	WIS400071	Lower Mississippi River basin Fedar Collionii bacteria TMDL	07040004-501	Categorical	3.40	organisms/month		WOIST	Zumbro River: West	recai Collottii	4/5/2006
						10^12		l	Indian Creek to		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-501	Categorical	2.35	organisms/month		Mid-Range	Mississippi River Zumbro River; West	Fecal Coliform	4/5/2006
						10^12			Indian Creek to		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-501	Categorical	1.38	organisms/month		Dry	Mississippi River Zumbro River; West	Fecal Coliform	4/5/2006
						10^12			Indian Creek to		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-501	Categorical	1.05	organisms/month		Low	Mississippi River	Fecal Coliform	4/5/2006
									South Fork Zumbro		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-533	Categorical	5.74	10^12 organisms/month		High	River; Silver Lake Dam to Cascade Creek	Fecal Coliform	4/5/2006
Cascade Township	MS400071	Lower Mississippi River basin recai Collionni bacteria TMDL	07040004-555	Categorical	5.74	organisms/month		nigri	to Cascade Creek	recai Collottii	4/5/2006
									South Fork Zumbro		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-533	Categorical	2.19	10^12 organisms/month		Moist	River; Silver Lake Dam to Cascade Creek	Fecal Coliform	4/5/2006
						10^12			South Fork Zumbro River: Silver Lake Dam		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-533	Categorical	1.40	organisms/month		Mid-Range	to Cascade Creek	Fecal Coliform	4/5/2006
									South Fork Zumbro		
						10^12			River; Silver Lake Dam		1/5/2000
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-533	Categorical	0.60	organisms/month		Dry	to Cascade Creek	Fecal Coliform	4/5/2006
									South Fork Zumbro		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-533	Categorical	0.20	10^12 organisms/month		Low	River; Silver Lake Dam to Cascade Creek	Fecal Coliform	4/5/2006
			2.2.2201000		3.20				South Fork Zumbro		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-535	Categorical	5 17	10^12 organisms/month		High	River; Bear Creek to Oakwood Dam	Fecal Coliform	4/5/2006
		2012 Marchagar (1970) Salari Cola Comorni Bacteria (1970)	0.0.000-000	- atogorious	3.17			9	South Fork Zumbro	. 2341 0011.01111	
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-535	Categorical	1 07	10^12 organisms/month		Moist	River; Bear Creek to Oakwood Dam	Fecal Coliform	4/5/2006
Cascade Township	100400071	LOWG MISSISSIPPI NIVEL BASHIT EGAL COINCITH BACTERIA TIMDE	07040004-000	Carcyonical	1.97	organisms/month		INIOISE	South Fork Zumbro	r ccar comorni	7.5/2000
Casaada Taumahia	MC400074	Leurer Minerieniani Diver Desia Ferral Onliferent Destado TARDI	07040004 505	Catagorical	,	10^12		Mid Don	River; Bear Creek to	Facel Calife	4/5/2006
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-535	Categorical	1.26	organisms/month	1	Mid-Range	Oakwood Dam South Fork Zumbro	Fecal Coliform	4/3/2006
Occasida Taurantia	140400071	Laura Missississi Divas Pasis Facel C W	07040004 505	Ontrodical		10^12		D	River; Bear Creek to	F1 0-116	4/5/0000
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-535	Categorical	0.54	organisms/month		Dry	Oakwood Dam South Fork Zumbro	Fecal Coliform	4/5/2006
						10^12			River; Bear Creek to	1	
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-535	Categorical	0.18	organisms/month	<u> </u>	Low	Oakwood Dam	Fecal Coliform	4/5/2006

Permittee name	Preferred ID	TMDL project name*	Waterbody ID	Type of WLA*	Numeric WLA*	Unit*	Percent reduction	Flow condition*		Pollutant of concern*	Date approved
Oda Taurrahia	MO 400074	Laure Marianiani Diver Paris Frank Californi Parisis TND	07040004 500	Ontonomical	4.00	10^12		10-6	South Fork Zumbro River; Salem Creek to Bear Creek	Facal California	4/5/2006
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-536	Categorical	1.80	organisms/month		High	South Fork Zumbro	Fecal Coliform	4/5/2006
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-536	Categorical	0.68	10^12 organisms/month		Moist	River; Salem Creek to Bear Creek	Fecal Coliform	4/5/2006
						10^12			South Fork Zumbro River; Salem Creek to		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-536	Categorical	0.44	organisms/month		Mid-Range	Bear Creek South Fork Zumbro	Fecal Coliform	4/5/2006
						10^12		_	River; Salem Creek to		
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-536	Categorical	0.19	organisms/month		Dry	Bear Creek South Fork Zumbro	Fecal Coliform	4/5/2006
Cascade Township	MS400071	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040004-536	Categorical	0.06	10^12 organisms/month		Low	River; Salem Creek to Bear Creek	Fecal Coliform	4/5/2006
									Zumbro River; West Indian Cr to Mississippi		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-501	Catergorical	26.51	tons/day		High	River	TSS	5/25/2012
									Zumbro River; West Indian Cr to Mississippi		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-501	Catergorical	11.15	tons/day		Moist	River Zumbro River: West	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-501	Catergorical	7 21	tons/day		Mid-Range	Indian Cr to Mississippi River	TSS	5/25/2012
						,			Zumbro River; West Indian Cr to Mississippi		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-501	Catergorical	5.13	tons/day		Dry	River	TSS	5/25/2012
									Zumbro River; West Indian Cr to Mississippi		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-501	Catergorical	4.33	tons/day		Low	River Zumbro River, South	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-507	Catergorical	26 17	tons/day		High	Fork; Cascade Cr to Zumbro Lk	TSS	5/25/2012
Cascade Township	WC-10007 1	Zumbro raver watershed rivibe for randomy impairments	07040004-307	Odicigorical	20.17	torisiday		riigii	Zumbro River, South	100	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-507	Catergorical	10.34	tons/day		Moist	Fork; Cascade Cr to Zumbro Lk	TSS	5/25/2012
									Zumbro River, South Fork; Cascade Cr to		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-507	Catergorical	3.96	tons/day		Mid-Range	Zumbro Lk Zumbro River, South	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-507	Catergorical	4.04	tons/day		Drv	Fork; Cascade Cr to Zumbro Lk	TSS	5/25/2012
Cascade Township	M3400071	Zumbro River Watershed TMDE for Turbuity Impairments	07040004-507	Catergorical	1.01	toris/day		DIY	Zumbro River, South	155	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-507	Catergorical	0.95	tons/day		Low	Fork; Cascade Cr to Zumbro Lk	TSS	5/25/2012
									Cascade Creek; Unnamed Cr to S Fk		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-581	Catergorical	3.29	tons/day		High	Zumbro R. Cascade Creek:	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-581	Catergorical	4 70	tons/day		Moist	Unnamed Cr to S Fk Zumbro R.	TSS	5/25/2012
Cascade Township	M3400071	Zumbro River Watershed TMDE for Turbuity Impairments	07040004-561	Catergorical	1.73	toris/day		WOIST	Cascade Creek;	155	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-581	Catergorical	0.81	tons/day		Mid-Range	Unnamed Cr to S Fk Zumbro R.	TSS	5/25/2012
									Cascade Creek; Unnamed Cr to S Fk		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-581	Catergorical	0.33	tons/day		Dry	Zumbro R. Cascade Creek;	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-581	Catergorical	0.14	tons/day		Low	Unnamed Cr to S Fk	TSS	5/25/2012
,						,			Kings Run; Unnamed Cr		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-601	Catergorical		tons/day		High	to Unnamed Cr Kings Run; Unnamed Cr	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-601	Catergorical	1.64	tons/day		Moist	to Unnamed Cr Kings Run; Unnamed Cr	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-601	Catergorical	0.70	tons/day		Mid-Range	to Unnamed Cr Kings Run: Unnamed Cr	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-601	Catergorical	0.39	tons/day		Dry	to Unnamed Cr Kings Run; Unnamed Cr	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-601	Catergorical	0.26	tons/day		Low	to Unnamed Cr	TSS	5/25/2012
	l								Cascade Creek; Headwaters to Unnamed		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-639	Catergorical	0.58	tons/day		High	Cr Cascade Creek;	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-639	Catergorical	0.30	tons/day		Moist	Headwaters to Unnamed Cr	TSS	5/25/2012
·				Ĭ		,			Cascade Creek; Headwaters to Unnamed		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-639	Catergorical	0.14	tons/day		Mid-Range	Cr	TSS	5/25/2012
								_	Cascade Creek; Headwaters to Unnamed		
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-639	Catergorical	0.06	tons/day		Dry	Cr Cascade Creek;	TSS	5/25/2012
Cascade Township	MS400071	Zumbro River Watershed TMDL for Turbidity Impairments	07040004-639	Catergorical	0.02	tons/day		Low	Headwaters to Unnamed Cr	TSS	5/25/2012
	1	mpainten	12.2.000.000		0.02				(* *	1	

Compliance Schedule PART II.D.6.f.-g.

Is your MS4 currently meeting its WLA for any approved TMDLs?

Go to: Go to: Go to: NO (Complete Table 1, Strategies for continued BMP implementation beyond the term of this permit, and Table 2 below) Table 1 Strategies.. Table 2

YES (Provide the following information below)

If YES, indicate the WLAs (may be grouped by TMDL Project) you believe are reasonably being met. For each WLA, list the implemented BMPs and provide a narrative strategy for the long-term continuation of meeting each WLA. PART II.D.6.g.(1)-(2)

Lower Mississippi River Basin Fecal Coliform Bacteria TMDL

No reduction (0% reduction) in loading from MS4s was called for in this TMDL. Therefore, we will continue to maintain the existing BMPs to ensure they remain sufficient to address any loading generated from our system.

Zumbro River Watershed TMDL for Turbidity Impairments

No reduction (0% reduction) in loading from MS4s was called for in this TMDL. Therefore, we will continue to maintain the existing BMPs to ensure they remain sufficient to address any loading generated from our system.

Table 1

Fill in the following table with your Interim Milestones, BMP IDs, and Implementation Dates. Replace "TMDL Project Name & Pollutant" Columns with each TMDL Project Name and the corresponding pollutant. Then put an "X" in the boxes for the TMDL that corresponds with each BMP. PART II.D.6.f.(1)-(2)

It is recommended to assign each Interim Milestone (BMP) a BMP ID. You will be required to report on the status of each Interim Milestone and include a BMP ID for all structural BMPs as part of the MS4 Annual Report (see Part III.E.), so including those ID numbers at the time of application may be useful in tracking implementation efforts. If a pond that will be included in the pond inventory (Part III.C.2.) is to be applied toward a WLA, use the same ID for both the pond inventory and TMDL tracking. Non-structural BMPs are not required to have an ID, but it may be useful to assign it an ID for internal MS4 recordkeeping.

MPCA recommends the Implementation Dates align with the submittal of MS4 Annual Reports. Dates selected may not reflect the actual date a BMP is implemented, but shall indicate a BMP will be implemented on that date or before for that reporting year.

			TMDL Project Name &
Interim Milestone (Best Management Practice)	BMP ID	Implementation Date	Pollutant1

Strategies for continued BMP implementation beyond the term of this permit. PART II.D.6.f.(3)

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Target dates the applicable WLA(s) will be achieved. PART II.D.6.1.(4)	
TMDL Project	Target Date to Achieve WLA

TOWNSHIP COOPERATIVE PLANNING ASSOCIATION



4111 11th Avenue SW - Room 10 - Rochester, MN 55902 PH: 507-529-0774 - FX: 507-281-6821 roger@tcpamn.org - david@tcpamn.org

Township Erosion and Sediment Control Policy

The Township Building Inspector—CMS—will now inspect all new construction building sites to assure the Townships that MPCA standards are being met with respect to erosion control and site cleanliness. The following items will be inspected;

Silt Fencing:

- All downhill slopes must have silt fence installed
- All stockpiled soil must be surrounded with silt fencing
- All storm water inlets must be protected with silt fencing

Garbage:

All construction debris and garbage must be contained. Builder to provide either a trailer, a dumpster or some other form of containment for all debris.

Driveway:

- There must be one stabilized vehicle entrance to the site and it must be used by all vehicles entering and exiting the site.
- The driveway must be surfaced with crushed rock, from the street/road to the house.
- Dirt, mud or debris tracked onto surrounding public streets/roads must be cleaned off within 24 hours.

Sanitary Facilities

On-site toilet facilities must be provided.

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TOWNSHIP COOPERATIVE PLANNING ASSOCIATION - GRADING PERMIT/EROSION CONTROL APPLICATION

4111 11th Avenue SW Room 10

-- TCPA --

(507) 529-0774 Fax: (507) 281-6821 Rochester, MN 55902 TOWNSHIP: DATE: Legal Property Description/Address: Property Owner/Address: Telephone #: Engineer/Soils Scientist: ______ Telephone#: Telephone#: Excavator: Type of Request: __ Grading Permit __ Erosion Control Review Request Description: Existing Use of Property: Present Zoning Classification: Signature of Applicant _____ Date Filing Fee \$ 214.00, made payable to TCPA. Surety in Place: Y N Surety Amount _____ Engineer's Estimate \$ Reviewed by the Zoning Administrator on ______, to consider the above request. Approved Approved with Attached Conditions: Signature

TCPA GRADING PLAN APPROVAL

Project Name:		
Township:		
Prepared By:	Date:	
Firm:		
Reviewed By:	Date:	
Firm:		
Approved By:	Date:	
Firm:	\—	
COMMENTS:		
COMMENTS:		
		-

TCPA Grading Plan Policy

If your grading project is disturbing more than 10,000 square feet, TCPA requires that you obtain a grading permit.

Additionally, if any of the below conditions exist, TCPA requires that a registered civil engineer prepare the grading plan and complete the grading plan checklist. Any of the below also require you to reimburse the township for engineering fees associated with the review, approval, and construction inspection of the grading project:

- Any grading within public property (except driveway culverts)
- Any grading activity which disturbs more than 1 acre of land
- Any grading activity involving more than 10,000 cubic yards.
- Any grading activity which alters the contours by more than 10 feet vertically

A grading plan must be deemed complete by TCPA staff before a preliminary plat application will be received.

Preliminary plat submittal deadlines are 3 weeks prior to the next scheduled planning and zoning meeting.

A performance bond in the amount of 125% of the engineer's estimate is required for any work performed within public property and any storm water pond work performed within a storm water easement.

TCPA's 2009 Schedule of engineering review fees

Professional Engineer \$150/ hour Engineering Aide \$80/hour Survey Crew \$191/hour

TCPA GRADING PLAN CHECKLIST

-March 2009-KEY Project Name: Township: $\mathbf{x} = N_0$ Prepared By: Blank = Not Applicable Date: Reviewed By: Date: GENERAL Temporary stockpiles include additional silt fence or NPDES permit and SWPPP referred to on plan other sediment control ☐ Completed TCPA grading permit application Percent of slope shown for streets & drainage swales 5 copies of signed grading submitted (one copy Proposed elevation of garage and lowest floor, ground directly to reviewing engineer) at front and rear of buildings, along with structure type Owner name and address shown on plan indicated on the plan. ☐ Plan is 1"=50' or larger scale ☐ Top of foundation min. 6" from ground □ North arrow shown on plan ☐ Grade 1' below top of foundation 10' from building Plan drawn in two-foot contours (solid lines) Lowest opening of buildings at least 1' above any Existing contours are labeled (dashed lines) overflow elevation, 2' above low road crossing, 2'above Directional arrows shown for proposed drainage pond 100-yr water level and 1' above 100-yr flood ☐ Details of terrain and drainage are provided for areas elevation (FEMA or other approved) adjacent to proposed grading ☐ Seeding schedule for areas within 200' of surface Existing public and private utilities are shown water within maximum time allowed shown on plan: Boundaries of drainage areas shown (drainage report) Steeper than 3:1 - 7 days Soil types shown (drainage report) 10:1 to 3:1 - 14 days ☐ Flatter than 10:1 -21 days Grading limits clearly shown on plan Temporary or permanent cover is indicated for all ☐ All receiving waters, including wetlands, within ½ mile disturbed areas. Temp. seeding specifies seed mix, shown or identified on plan including disk anchored mulch on all slopes >200' or Property limits are shown >5%. Permanent cover specifies 4" min. topsoil, seed mix ☐ Streets (existing and proposed) are labeled and disk anchored mulch, or 4" min. topsoil and sod ☐ Lot & Block or Section quadrant labeled on plan ☐ Slopes steeper than 4:1 and 4:1 slopes longer than 30' ☐ Schedule of BMP installation shown are seeded and protected with crosion control blankels or ☐ BMP details included on plan sodded and staked. Blanket category specified per County or MnDOT permit obtained for work in ROW MnDOT 3885.1. Plan shows required blanket locations. ☐ Statement that slopes steeper than 4:1 are stable from Any Township Board approval conditions are met land-sliding and surface erosion. Geotechnical report for SITE GRADING, SEDIMENT & EROSION CONTROL ☐ Down-slope sediment control scheduled before grading slopes > 3:1 For sites where temporary or permanent cover will not ☐ Adjacent property protected from drainage and sediment be complete by November 15, plan indicates adequate ☐ Stabilized vehicle exits are provided measures to control spring erosion & sedimentation ☐ Silt fences are provided. "High flow, heavy duty" Minimum slope of drainage swales shall not be flatter designated in concentrated areas than adjacent street profile, or 1% in all other locations ☐ All storm inlets (existing & proposed) include temporary without prior approval sediment control and remain inplace until upstream ☐ Typical sections for roadways and drainage ditches stabilization shown on the plan ☐ Maximum unbroken slope 3:1 or steeper of 75 feet

horizontal. Min. break of 8 feet horizontal.

DRAINAGE SWALES & EASEMENT	INTERES & OVERNOR OFFE
Drainage casements are shown and labeled on the plan	INLETS & OVERFLOWS All appen elevations (inlets and outlats) and but to be a
Drainage easements are provided where concentrated flow is received from more than I adjacent lot. 100-yr max flow contained within easement,	Area inlet elevations are labeled. Pipc sizes and materials are labeled.
Minimum designation	400' max. manhole spacing for lines 15" dia or less
Minimum drainage easements for flows from 1 acre or	500' max. manhole spacing for lines 18" to 30" dia.
less or 4 lots or less are a min. of 15' wide. 4:1 side slopes on ditches.	Flow direction change no greater than 90 degrees
Minimum drainage easements for flows from more than 1	☐ Apron inlets include trash racks
acre or more than 4 lots are a min. of 20' wide. 4:1 side	☐ Trash racks on inlet structures in wooded areas
stopes on ditches.	designed assuming a minimum 50% plugging condition.
Control elevations for drainage ways are provided	☐ Drainage does not cross intersections
☐ Velocity computations are provided for drainage	Overflow swales are provided which limit the depth of
easements where concentrated flow from more than 2 comes	ponding in the roadways to 2' or less
permanent turf reinforcement mats are installed. Blanket per	☐ Minimum depth of road ditch = 3', with 4' bottom and 3:1 side slopes
MnDOT 3888.2A2 is specified. Plan depicts blanket locations and cross sections.	PERMANENT PONDS
Basement documents are signed and submitted to TCPA	
with recording fees, or included on plat	drainage report)
Ditches stabilized within 24 hours of connection to	Pond cross section included on plan
surface water outlet	Where possible, locate inlet and outlets at opposite ends of ponds and provide forebay at inlet
OUTLETS & ENERGY DISSIPATION	☐ 10:1 bench provided for first 1 foot below normal water elevation
Discharge direction of flow generally 45 degrees or less to the flow direction of receiving ditch or stream	4:I max slope from normal water elevation to 100-yr water elevation
Where discharge velocities are 10 fps or less, riprap and	3:1 max slope below normal water elevation
filter volumes are indicated in accordance with MnDOT Standard Plates.	Pond depth is 3 to 10 feet based on normal water level
	Normal water elevation is labeled on the plan
Where discharge velocities are greater than 10 fps, energy dissipater is provided along with riprap and filter.	100-y high water level is labeled on the plan
Pipe outlet energy dissipation complete within 24 hours	Permanent pool volume of 1800 cf/acre drained
of connection to surface water or outlet	Water quality volume equal to ½ inch runoff over total impervious surface area at ultimate development
TEMPORARY SEDIMENT BASINS	Outlet sized to discharge no more than 5.66 cfs/acre of
Temporary sediment basins provided	pond surface
Sized to store 2-yr, 24-hr storm from the drainage area pelow the outlet pipe (no smaller than 1800 cf/acre of	Outlet designed to prevent short circuiting and discharge of floating debris
rainage area), or	☐ Emergency overflow spillway is provided to
Sized at 3,600 cf/ acre or drainage area	accommodate 100-yr event. High point elevation and
Designed to minimize short-circuiting	direction of flow are shown on the plans.
Discharge of Floating debris prevented	Emergency overflow spillway is located to protect
Designed for full dewatering	adjacent property and large fill sections
Principal and emergency spillway designed per BMP orm frequency standards	☐ 100-yr runoff which is designed to flow to the pond does not bypass the pond; unmodeled 100-yr flow does not
Plan requires any temp. or permanent sediment ponds to	enter the pond
e constructed at the beginning of construction	Minimum 10' width at top of dam (if dam is <15')
For areas draining less than 10 acres, alternative sediment ontrol provided:	☐ 12' wide access and turn-around area for maintenance vehicles is shown on a slope <15%
☐ Multiple lines of silt fence ☐ Smaller basins	□ DNR Dam Safety Permit obtained if dam height is >6' and storage to top of dam is > 15 acre-ft.
☐ Vegetative strips	

INFILTRATION/FILTRATION BASINS	
Type(s) used:	DRAINAGE REPORT
☐ Infiltration basins	☐ Map of existing watersheds
☐ Infiltration trenches	☐ Map of proposed watersheds
☐ Rain gardens	☐ Soil type map
☐ Sand filters	Discussion of existing and proposed a dis-
Organic filters	E CATSUITE AND DIODORED CONDITIONS
Bioretention Natural depressions (wetland not included)	Comparison of existing and proposed runoff. Proposed runoff shall not exceed existing runoff for the 2- yr, 10-yr and 100-yr storm events
Other	Modeling calculations and results included
	Discharge and storage calculations for all stormunter
Floating debris removed before infiltration system	ponds and infiltration basins
Site sensitivity analysis included	☐ Velocity computations for all pipe outlets
Evaluation of hydrologic impact included	☐ Velocity computations for all drainage swales
Infiltration scheduled after full site development	☐ Culvert sizing calculations
stabilization	☐ Storm sewer design calculations
Runoff routed away from infiltration system during	☐ Calculations for compliance with NPDES
Construction	requirements
Site controlled to minimize soil compaction	
Pretreatment sediment removal included	ON-SITE SEWAGE TREATMENT SYSTEMS
Designed for ½ inch of runoff from total impervious	☐ ISTS investigation submitted to TCPA
surface areas for ultimate development within 48 hours	☐ ISTS areas shown on plan
- Joseph of Hows that cannot be filtered	Grading does not extend into ISTS areas
Minimum vertical separation of 3 feet between	ISTS areas are protected from soil compaction
seasonal high ground water and bottom of infiltration system	Storm drainage is not directed over ISTS areas
Minimum vertical separation of 3 feet between	areas
impermeable layer and bottom of infiltration system	
Soil test results, system capacity calculations	
computer modeling results provided (drainage remort)	
With, 10° width maintenance access provided	
Emergency overflow spillway provided and least to	
protect adjacent property and large fill sections	
COMMENTS:	
	-)-