

MS4 Permit TMDL Application

Municipal Separate Storm Sewer System (MS4) Program

Total Maximum Daily Load (TMDL)

wq-strm4-62 (Revised 9/25/20)

The worksheets in this workbook are customized for :

Lino Lakes city of

Instructions

You must complete this form for your applicable waste load allocations (WLAs) for oxygen demand, nitrate, total suspended solids (TSS), and total phosphorus (TP). Navigate the form using the worksheet tabs and complete all of the required fields as needed. MPCA staff have inserted the applicable TMDL projects on the **Applicable WLAs determination** tab. Applicants will need to determine whether or not they are meeting the WLAs associated with each TMDL and then provide the information required with that determination on subsequent workbook tabs.

Notes for using this workbook

For the workbook to function- you must click Enable Content when opening, and save it as a macro-enabled spreadsheet (.xlsm type file)

This spreadsheet contains macros. Save the file as a macro-enabled file to retain the macros.

If you need to clear a cell, please use the delete button and not the backspace button.

Some entries are optional. Look at the column header to identify cells that are optional.

This workbook contains protected cells that allow you to enter values but do not delete or change coding.

Worksheets with white tabs are for information only and do not require any input from the applicant.

Worksheets with green tabs may require information from the applicant.

This workbook contains worksheets for TMDL Waste Load Allocations

The worksheet called **Bacteria Chloride Temp** contains a custom list of applicable WLAs for bacteria, chloride or temperature. This provides information to answer questions 141, 146 and 151 on the MS4 Part 2 Permit Application.

The worksheet called **Applicable WLAs Determination** contains a custom list of oxygen demand, nitrate, TSS and/or TP WLAs for each permittee. Column B in this worksheet needs to be completed by the applicant in order to populate the following worksheets. If there are no TMDLs listed, you have no TMDLs to report on in this workbook, and you should enter 'No' for question 155 on the MS4 Part 2 Permit Application.

The worksheet called **Compliance Schedule** should be completed for all oxygen demand, nitrate, TSS and/or TP TMDL Waste Load Allocations (WLAs) you are not meeting.

The worksheet called **Compliance Schedule BMPs** should be completed for all oxygen demand, nitrate, TSS and/or TP TMDL Waste Load Allocations (WLAs) you are not meeting.

The worksheet called **Reductions for WLAs met** should be completed for all oxygen demand, nitrate, TSS and/or TP TMDL Waste Load Allocations (WLAs) you are claiming to meet.

The worksheet called **BMPs for WLAs met** should be completed for all oxygen demand, nitrate, TSS and/or TP TMDL Waste Load Allocations (WLAs) you are claiming to meet.

The worksheet called **TMDL Master List** contains summary information for all U.S. Environmental Protection Agency-approved TMDL waste load allocations. It is for informational/reference purposes only.

Questions?

If you have any questions, see the MS4 staff page to find the staff assigned to your MS4 at:

https://stormwater.pca.state.mn.us/index.php?title=MS4_staff_contact_information_and_staff_assignments

or see the staff contact information on the Minnesota Pollution Control Agency's (MPCA) MS4 webpage at:

<https://www.pca.state.mn.us/water/municipal-stormwater-ms4>

Useful links

Guidance on completing this form (workbook) - found on the MPCA's website at:

https://stormwater.pca.state.mn.us/index.php?title=Guidance_for_completing_the_MS4_Permit_TMDL_Application_Form

The above link includes guidance for completing the form, examples for completing the form, and a video illustrating how to complete the form.

Link to permit - found on MPCA's website at:

[https://stormwater.pca.state.mn.us/index.php?title=Stormwater_Program_for_Municipal_Separate_Storm_Sewer_Systems_\(MS4\)#MS4_stormwater_permit](https://stormwater.pca.state.mn.us/index.php?title=Stormwater_Program_for_Municipal_Separate_Storm_Sewer_Systems_(MS4)#MS4_stormwater_permit)

Guidance for categorical wasteload allocations - found on the MPCA's website at:

https://stormwater.pca.state.mn.us/index.php?title=Guidance_for_categorical_TMDLs

Bacteria, Chloride and Temperature Wasteload Allocation TMDL projects (permit item 12.9)

Column A, rows 9 and beyond, will list any applicable WLAs for bacteria, chloride or temperature TMDL projects (USEPA approved, more than a zero % reduction). Use the information in this tab to answer questions 141, 146 and 151 in the MS4 Part 2 Permit Application. If there is not a project listed for any certain pollutant, you would check the 'No' box for the corresponding question(s) in the MS4 Part 2 Permit Application.

Permittee name	Lino Lakes city of
Percent Reduction	(Multiple Items)

Applicable WLAs for Bacteria, Temperature, or Chloride

Chloride

Twin Cities Metro Area Chloride TMDL and Management Plan

South Long

E. coli

Upper Mississippi River Bacteria TMDL

Rice Creek

Applicable Oxygen Demand, Nitrate, TSS, TP TMDL projects (permit item 12.8 & 12.10)

Column A, rows 9 and below, includes any applicable WLAs (USEPA approved, more than a zero % reduction) for oxygen demand, nitrate, TSS, or TP TMDL projects. They are listed by TMDL project name-waterbody (waterbody ID)-pollutant. Column F lists the corresponding applicable numeric WLAs for those projects. The applicant needs to make a determination if they are meeting each WLA or not and type "Yes" or "No" in Column B. Once you are done with your determination in Column B, click the red text in highlighted cell A7. This will autopopulate the rest of the workbook. If you make any changes in Column B, click on the button with the red text in cell A7 again. For each WLA that is marked as "Yes" in Column B, please complete the tabs Reductions for WLAs met and BMPs for WLAs met. For each WLA marked "No" in Column B, please complete "Compliance Schedule" and "Compliance Schedule BMPs" tabs.

Permittee name	Lino Lakes city of
Pollutant	(Multiple Items)
Percent Reduction	(Multiple Items)
Notes	(Multiple Items)

Permittee name	Lino Lakes city of
Pollutant	(Multiple Items)

Workbook autopopulated. Continue to other tabs.

Applicable Oxygen Demand, Nitrate, TP and/or TSS WLA TMDLs-Waterbody-Pollutant	Meeting WLA? (Yes/No)
Bald Eagle Lake Nutrient TMDL-Bald Eagle-(62-0002-00)-TP	No
Golden Lake TMDL-Golden-(02-0045-00)-TP	Yes
Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL-Hardwood Creek-(07010206-596)-Total Oxygen Demand	No
Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL-Hardwood Creek-(07010206-596)-TSS	No
Peltier/Centerville Lake Nutrient Impairment TMDL-Peltier-(02-0004-00)-TP	No
Vadnais Lake Area WMO-Wilkinson-(62-0043-00)-TP	No

TMDL Project - waterbody - pollutant	WLA type	Numeric WLA	Units	Flow Condition	Percent Reduction	Notes
Bald Eagle Lake Nutrient TMDL-Bald Eagle-(62-0002-00)-TP	Categorical	1,970	lbs/day	Not Applicable	38%	(blank)
		719,000	lbs/yr	Not Applicable	38%	(blank)
Golden Lake TMDL-Golden-(02-0045-00)-TP	Categorical	0.380	lbs/day	Not Applicable	Not Available	(blank)
Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL-Hardwood Creek-(07010206-596)-Total Oxygen Demand	Categorical	138,000	lbs/yr	Not Applicable	Not Available	(blank)
Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL-Hardwood Creek-(07010206-596)-TSS	Categorical	10,000	lbs/day	Mid	Not Available	(blank)
		104,000	lbs/day	Very High	Not Available	(blank)
		2,000	lbs/day	Very Low	Not Available	(blank)
		25,000	lbs/day	High	Not Available	(blank)
		5,000	lbs/day	Low	Not Available	(blank)
Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL-Hardwood Creek-(07010206-596)-TSS	Categorical	100,000	lbs/day	High	Not Available	(blank)
		17,000	lbs/day	Low	Not Available	(blank)
		38,000	lbs/day	Mid	Not Available	(blank)
		413,000	lbs/day	Very High	Not Available	(blank)
		6,000	lbs/day	Very Low	Not Available	(blank)
Peltier/Centerville Lake Nutrient Impairment TMDL-Peltier-(02-0004-00)-TP	Categorical	4,780	lbs/day (see r	Not Applicable	62%	TMDL based on June through September growing season (122 days)
		583,000	lbs/growing se	Not Applicable	62%	TMDL based on June through September growing season (122 days)
Vadnais Lake Area WMO-Wilkinson-(62-0043-00)-TP	Individual	0.003	lbs/day	Not Applicable	76%	(blank)
		1,200	lbs/yr	Not Applicable	76%	(blank)

TMDL Master List

Municipal Separate Storm Sewer Systems (MS4) Program

Total Maximum Daily Load (TMDL), Wasteload Allocations (WLAs)

This table is for reference only and shows ALL waste load allocations assigned to an MS4 and all flow zones, whether they need to be reported on in this application or not. See 'Applicable WLAs determination' tab for oxygen demand, nitrogen, TSS and TP WLAs that need compliance schedules or documentation to demonstrate that the WLAs are being met.

Permittee name	MS4 Permit #	TMDL project name	Waterbody ID	Waterbody name	WLA type	Numeric WLA	Units	Flow Condition	Percent Reduction	Pollutant	Annual/Daily	MPCA Recommended Baseline year	TMDL Approval Date	Notes
Lino Lakes city of	MS400100	Bald Eagle Lake Nutrient TMDL	62-0002-00	Bald Eagle	Categorical	719,000	lbs/yr	Not Applicable	38%	TP	Annual	2005	6/11/2012	
Lino Lakes city of	MS400100	Bald Eagle Lake Nutrient TMDL	62-0002-00	Bald Eagle	Categorical	1,970	lbs/day	Not Applicable	38%	TP	Daily	2005	6/11/2012	
Lino Lakes city of	MS400100	Golden Lake TMDL	02-0045-00	Golden	Categorical	138,000	lbs/yr	Not Applicable		TP	Annual	2004	9/30/2009	
Lino Lakes city of	MS400100	Golden Lake TMDL	02-0045-00	Golden	Categorical	0,380	lbs/day	Not Applicable	Not Available	TP	Daily	2004	9/30/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	413,000	lbs/day	Very High	Not Available	TSS	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	100,000	lbs/day	High	Not Available	TSS	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	38,000	lbs/day	Mid	Not Available	TSS	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	17,000	lbs/day	Low	Not Available	TSS	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	6,000	lbs/day	Very Low	Not Available	TSS	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	104,000	lbs/day	Very High	Not Available	Total Oxygen Demand	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	25,000	lbs/day	High	Not Available	Total Oxygen Demand	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	10,000	lbs/day	Mid	Not Available	Total Oxygen Demand	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	5,000	lbs/day	Low	Not Available	Total Oxygen Demand	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Hardwood Creek Impaired Biota and Dissolved Oxygen TMDL	07010206-596	Hardwood Creek	Categorical	2,000	lbs/day	Very Low	Not Available	Total Oxygen Demand	Daily	2002	6/18/2009	
Lino Lakes city of	MS400100	Lino Lakes Chain (Metro)	02-0005-00	George Watch	Categorical	0,420	lbs/day	Not Applicable	0%	TP	Daily	2003	9/27/2013	
Lino Lakes city of	MS400100	Lino Lakes Chain (Metro)	02-0007-00	Marshan	Categorical	1,540	lbs/day	Not Applicable	0%	TP	Daily	2003	9/27/2013	
Lino Lakes city of	MS400100	Lino Lakes Chain (Metro)	02-0008-00	Rice	Categorical	1,210	lbs/day	Not Applicable	0%	TP	Daily	2003	9/27/2013	
Lino Lakes city of	MS400100	Lino Lakes Chain (Metro)	02-0009-00	Reshanau	Categorical	0,030	lbs/day	Not Applicable	0%	TP	Daily	2003	9/27/2013	
Lino Lakes city of	MS400100	Lino Lakes Chain (Metro)	02-0013-00	Baldwin	Categorical	0,220	lbs/day	Not Applicable	0%	TP	Daily	2003	9/27/2013	
Lino Lakes city of	MS400100	Peltier/Centerville Lake Nutrient Impairment TMDL	02-0004-00	Peltier	Categorical	583,000	lbs/growing season (see notes)	Not Applicable	62%	TP	Annual	2001	11/25/2013	TMDL based on June through September growing season (122 days)
Lino Lakes city of	MS400100	Peltier/Centerville Lake Nutrient Impairment TMDL	02-0004-00	Peltier	Categorical	4,780	lbs/day (see notes)	Not Applicable	62%	TP	Daily	2001	11/25/2013	TMDL based on June through September growing season (122 days)
Lino Lakes city of	MS400100	Peltier/Centerville Lake Nutrient Impairment TMDL	02-0006-00	Centerville	Categorical	26,000	lbs/growing season (see notes)	Not Applicable	0%	TP	Annual	2001	11/25/2013	TMDL based on June through September growing season (122 days)
Lino Lakes city of	MS400100	Peltier/Centerville Lake Nutrient Impairment TMDL	02-0006-00	Centerville	Categorical	0,210	lbs/day (see notes)	Not Applicable	0%	TP	Daily	2001	11/25/2013	TMDL based on June through September growing season (122 days)
Lino Lakes city of	MS400100	South Metro Mississippi TSS TMDL	07040001-531	Mississippi River	Categorical	154,000	lbs/acre/year	Not Applicable	0%	TSS	Annual	Not Applicable	4/26/2016	
Lino Lakes city of	MS400100	Twin Cities Metro Area Chloride TMDL and Management Plan	62-0067-02	South Long	Categorical	21534261,000	lbs/yr	Not Applicable	Not Available	Chloride	Annual	Not Applicable	6/9/2016	
Lino Lakes city of	MS400100	Twin Cities Metro Area Chloride TMDL and Management Plan	62-0067-02	South Long	Categorical	58998,000	lbs/day	Not Applicable	Not Available	Chloride	Daily	Not Applicable	6/9/2016	
Lino Lakes city of	MS400100	Upper Mississippi River Bacteria TMDL	07010206-584	Rice Creek	Categorical	396,000	billions of organisms/day	Very High	0%	E. coli	Daily	2010		Original TMDL approved 11/20/2014, modification approved 6/5/2019
Lino Lakes city of	MS400100	Upper Mississippi River Bacteria TMDL	07010206-584	Rice Creek	Categorical	96,800	billions of organisms/day	High	4-80%	E. coli	Daily	2010		Original TMDL approved 11/20/2014, modification approved 6/5/2019
Lino Lakes city of	MS400100	Upper Mississippi River Bacteria TMDL	07010206-584	Rice Creek	Categorical	23,600	billions of organisms/day	Mid	44%	E. coli	Daily	2010		Original TMDL approved 11/20/2014, modification approved 6/5/2019
Lino Lakes city of	MS400100	Upper Mississippi River Bacteria TMDL	07010206-584	Rice Creek	Categorical	4,930	billions of organisms/day	Low	Insufficient Data	E. coli	Daily	2010		Original TMDL approved 11/20/2014, modification approved 6/5/2019
Lino Lakes city of	MS400100	Upper Mississippi River Bacteria TMDL	07010206-584	Rice Creek	Categorical	1,750	billions of organisms/day	Very Low	Insufficient Data	E. coli	Daily	2010		Original TMDL approved 11/20/2014, modification approved 6/5/2019
Lino Lakes city of	MS400100	Vadnais Lake Area WMO	62-0043-00	Wilkinson	Individual	1,200	lbs/yr	Not Applicable	76%	TP	Annual	2007	4/3/2014	
Lino Lakes city of	MS400100	Vadnais Lake Area WMO	62-0043-00	Wilkinson	Individual	0,003	lbs/day	Not Applicable	76%	TP	Daily	2007	4/3/2014	