MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
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2019 Modification to Mississippi River – Lake Pepin Tributaries Total Maximum Daily Load Report

Overview

TMDL Project Name	Mississippi River – Lake Pepin Tributaries TMDL
Date of EPA TMDL Approval	August 18, 2015
Public Notice Dates	May 6, 2019 through June 5, 2019
MPCA Approval Date for Modification	June 5, 2019
TMDL segment AUID and pollutant which require modification	07040001-534 – *E. coli* TMDL modification 07040001-530 – *E. coli* TMDL modification
TMDL Tables in final TMDL document which are being modified	Table 4.2: Gilbert Creek and Miller Creek TMDLs

What is being changed from the final Total Maximum Daily Load (TMDL) to the modified TMDL?

The Minnesota Pollution Control Agency (MPCA) is making adjustments to stormwater wasteload allocations (WLAs) to account for a new regulated-Municipal Separate Storm Sewer Systems (MS4s). There is one new regulated-MS4 within the TMDL project area, Lake City (Permit #MS400288) (Table 1; Table 2). When the TMDLs were approved on August 18, 2015, Lake City was unregulated and the areas associated with the city were assigned to the load allocation (LA). Now that the city is a regulated-MS4, the LA assigned to them is being transferred to the MS4 WLA. The adjustments will not change the approved overall total loading capacities of the TMDLs.

Table 1. Current and new regulated-MS4s within TMDL subwatersheds.

AUID	Reach Name	Current MS4s included in TMDL	New MS4	Impairment
07040001-534	Miller Creek	None	Lake City MS4	*E. coli*
07040001-530	Gilbert Creek	None	Lake City MS4	*E. coli*

Table 2. Regulated-MS4s and MS4 Permit Numbers

Regulated MS4	MS4 Permit #
Lake City	MS400288

Explanation of modifications:

Lake City was not regulated under the MS4 permit when the TMDL was completed in 2015. Lake City is now a regulated-MS4 and the permitted area needs to be accounted for in the TMDL WLAs for the TMDL segments listed above. The MPCA is proposing the following modifications:

Miller Creek, AUID 07040001-534

The MPCA is shifting between 2.1 and 4.0 billions of organisms/day depending on flow zone of Escherichia Coli *(E. coli)* from the LA to the MS4 WLA for Lake City (Modified Table 4.2).

Gilbert Creek, AUID 07040001-530

We are shifting between 1.0 and 2.0 billions of organisms/day depending on flow zone of *E. coli* from the LA to the MS4 WLA for Lake City (Modified Table 4.2).

Maps

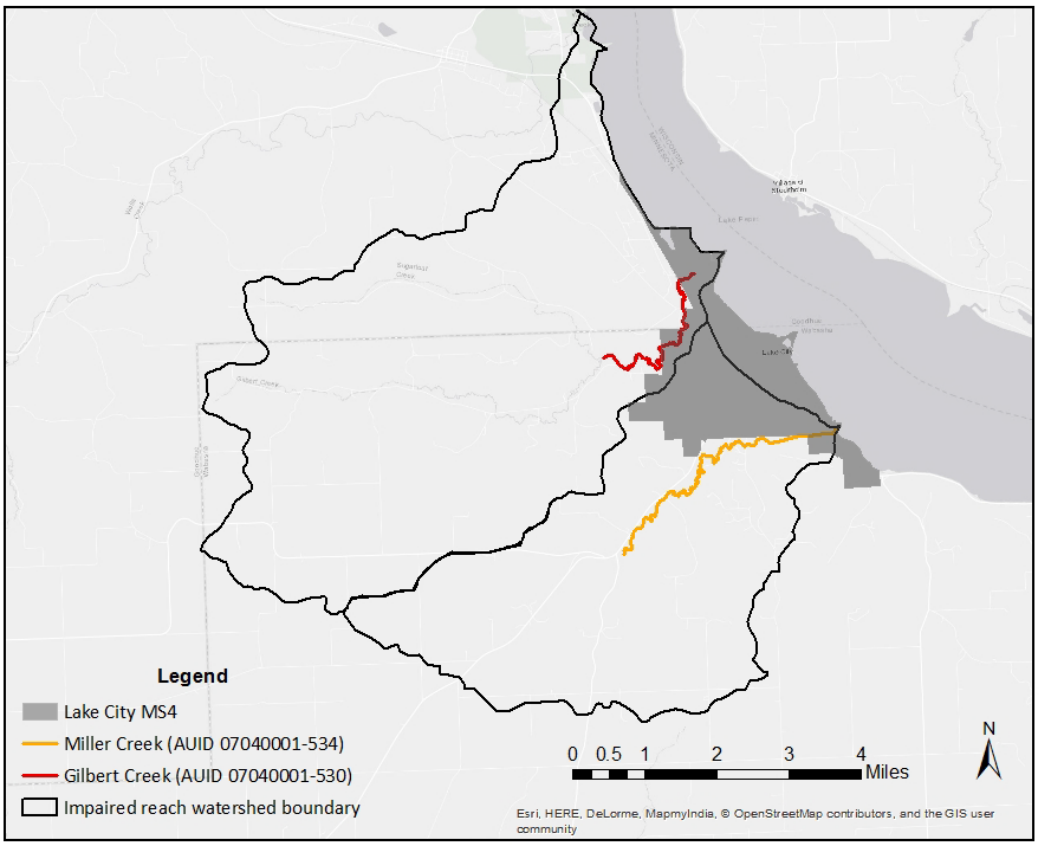

Figure 1. Impaired bacteria reaches Miller Creek (AUID 07040001-534), Gilbert Creek (AUID 07040001-530), and TMDL subwatersheds and Lake City MS4 regulated area.

Tables

Excerpt from original Table 4.2 *E. coli* TMDL summaries (pg. 27 of TMDL report).

	Flow Regime				
	Very High	High	Mod	Low	Very Low
Gilbert Creek TMDL Summary	Billions of Organisms/day				
Loading Capacity (TMDL)	53	41	38	33	27
Wasteload Allocation	--	--	--	--	--
Load Allocation	47.7	36.9	34.2	29.7	24.3
Margin of Safety	5.3	4.1	3.8	3.3	2.7
90th Percentile Value from WQ Data	NA	281	241	281	79
Miller Creek TMDL Summary	Billions of Organisms/day				
Loading Capacity (TMDL)	37	29	26	23	19
Wasteload Allocation	--	--	--	--	--
Load Allocation	33.3	26.1	23.4	20.7	17.1
Margin of Safety	3.7	2.9	2.6	2.3	1.9
90th Percentile Value from WQ Data	NA	342	494	305	147

Modified excerpt from original Table 4.2 *E. coli* TMDL summaries (modifications highlighted in yellow).

	Flow Regime				
	Very High	High	Mod	Low	Very Low
Gilbert Creek TMDL Summary	Billions of Organisms/day				
Loading Capacity (TMDL)	53	41	38	33	27
WLA – Lake City MS4 (MS400288) 3.72%	2.0	1.5	1.4	1.2	1.0
Load Allocation	45.7	35.4	32.8	28.5	23.3
Margin of Safety	5.3	4.1	3.8	3.3	2.7
90th Percentile Value from WQ Data	NA	281	241	281	79
Miller Creek TMDL Summary	Billions of Organisms/day				
Loading Capacity (TMDL)	37	29	26	23	19
WLA – Lake City MS4 (MS400288) 10.9%	4.0	3.2	2.8	2.5	2.1
Load Allocation	29.3	22.9	20.6	18.2	15.0
Margin of Safety	3.7	2.9	2.6	2.3	1.9
90th Percentile Value from WQ Data	NA	342	494	305	147

Implementation

Given the modification described, are there any changes to Stormwater Pollution Prevention Plan (SWPPP) to account for the modified WLAs?

Lake City MS4 will be required to submit an updated SWPPP when the new MS4 permit becomes effective in late 2019. At that time, Lake City MS4 will be required to account for the *E. coli* impaired reaches above.

Will the SWPPPs be updated to include the new information included in the modification? If yes, when will the SWPPPs be updated?

The SWPPP will be updated to include the new information in the modification when the new MS4 permit becomes effective in late 2019.