

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

APR 2 6 2016

REPLY TO THE ATTENTION OF:

WW-16J

Rebecca Flood, Assistant Commissioner Water Policy/Agriculture Liaison Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, Minnesota 55155-4194

Dear Ms. Flood:

The U.S. Environmental Protection Agency has conducted a complete review of the final Total Maximum Daily Loads (TMDLs) for five segments in the South Metro - Mississippi River (South Metro) watershed, including supporting documentation and follow up information. The South Metro watershed is located in the south-central Minnesota area. The TMDLs were calculated for total suspended solids. The TMDLs address the impairment of aquatic life uses.

EPA has determined that these TMDLs meet the requirements of Section 303(d) of the Clean Water Act and EPA's implementing regulations at 40 C.F.R. Part 130. Therefore, EPA hereby approves Minnesota's five TMDLs in the South Metro watershed. The statutory and regulatory requirements, and EPA's review of Minnesota's compliance with each requirement, are described in the enclosed decision document.

We wish to acknowledge Minnesota's effort in submitting these TMDLs addressing aquatic recreational use, and look forward to future submissions by the State of Minnesota. If you have any questions, please contact Mr. Peter Swenson, Chief of the Watersheds and Wetlands Branch, at 312-886-0236.

Sincerely,

Tinka G. Hyde Director, Water Division

Enclosure

cc: Celine Lyman, MPCA Chris Zadak, MPCA

wq-iw9-12g



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

FEB 2 0 2019

REPLY TO THE ATTENTION OF:

WW-16J

Glenn Skuta, Watershed Division Director Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, Minnesota 55155-4194

Dear Mr. Skuta:

The U.S. Environmental Protection Agency has reviewed the approval (dated April 26, 2016) of the South Metro Mississippi Total Maximum Daily Load (TMDL) report and has determined that Table A.2 of Appendix A of the TMDL misidentified the daily and annual wasteload allocations (WLAs). EPA has corrected the original Decision Document, and I am enclosing a copy for your records. Please see Table A.2 of Appendix A of the revised Decision Document for the correct WLAs.

If you have any questions, please contact Mr. David Werbach, TMDL Coordinator, at 312-886-4242.

Sincerely.

Peter Swenson Chief, Watersheds & Wetlands Branch

Enclosure

cc: Celine Lyman, MPCA Marco Graziani, MPCA

TMDL: South Metro Mississippi River TSS TMDL, Minnesota **Date:** April 26, 2016 (Revised February 20, 2019)

DECISION DOCUMENT FOR THE APPROVAL OF THE SOUTH METRO MISSISSIPPI RIVER, MINNESOTA, TMDL

Section 303(d) of the Clean Water Act (CWA) and EPA's implementing regulations at 40 C.F.R. **Part** 130 describe the statutory and regulatory requirements for approvable TMDLs. Additional information is generally necessary for EPA to determine if a submitted TMDL fulfills the legal requirements for approval under Section 303(d) and EPA regulations, and should be included in the submittal package. Use of the verb "must" below denotes information that is required to be submitted because it relates to elements of the TMDL required by the CWA and by regulation. Use of the term "should" below denotes information that is generally necessary for EPA to determine if a submitted TMDL is approvable. These TMDL review guidelines are not themselves regulations. They are an attempt to summarize and provide guidance regarding currently effective statutory and regulatory requirements relating to TMDLs. Any differences between these guidelines and EPA's TMDL regulations should be resolved in favor of the regulations themselves.

1. Identification of Waterbody, Pollutant of Concern, Pollutant Sources, and Priority Ranking

The TMDL submittal should identify the waterbody as it appears on the State's/Tribe's 303(d) list. The waterbody should be identified/georeferenced using the National Hydrography Dataset (NHD), and the TMDL should clearly identify the pollutant for which the TMDL is being established. In addition, the TMDL should identify the priority ranking of the waterbody and specify the link between the pollutant of concern and the water quality standard (see Section 2 below).

The TMDL submittal should include an identification of the point and nonpoint sources of the pollutant of concern, including location of the source(s) and the quantity of the loading, e.g., lbs/per day. The TMDL should provide the identification numbers of the NPDES permits within the waterbody. Where it is possible to separate natural background from nonpoint sources, the TMDL should include a description of the natural background. This information is necessary for EPA's review of the load and wasteload allocations, which are required by regulation.

The TMDL submittal should also contain a description of any important assumptions made in developing the TMDL, such as:

the spatial extent of the watershed in which the impaired waterbody is located;
 the assumed distribution of land use in the watershed (e.g., urban, forested, agriculture);

(3) population characteristics, wildlife resources, and other relevant information affecting the characterization of the pollutant of concern and its allocation to sources;

(4) present and future growth trends, if taken into consideration in preparing the TMDL (e.g., the TMDL could include the design capacity of a wastewater treatment facility); and

(5) an explanation and analytical basis for expressing the TMDL through *surrogate measures*, if applicable. *Surrogate measures* are parameters such as percent fines and turbidity for sediment impairments; chlorophyll <u>a</u> and phosphorus loadings for excess algae; length of riparian buffer; or number of acres of best management practices.

Comment:

Location Description/Spatial Extent: The South Metro Mississippi River (South Metro) watershed is located in the central portion of Minnesota and extends further eastward into Wisconsin. The impaired segments are the Lower Mississippi River from river mile 844 (at the mouth of the Minnesota River) to river mile 780 (upper pool of Lake Pepin). The watershed draining to these segments covers approximately half of the land area in Minnesota, and includes portions of Wisconsin, Iowa, and South Dakota. Figure 1 below (Figure 5 of the TMDL) shows the extent of the entire watershed (30 million acres). MPCA determined that sediment from portions of the western Minnesota River and northern Upper Mississippi River are trapped in natural settling basins provided by riverine lakes. These are the lightly shaded portions circled in Figure 1 of the Decision Document. The size of the watershed contributing sediment to the South Metro waterbodies is 24 million acres.

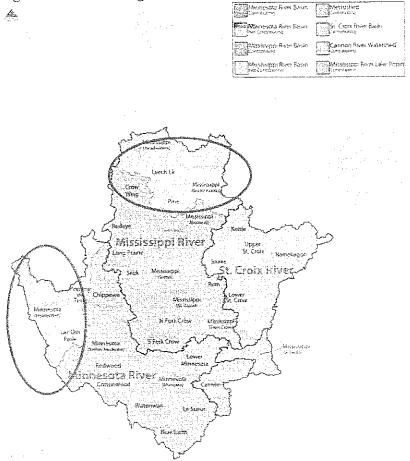


Figure 1 Contributing watershed for the South Metro TMDL waterbodies

The watershed includes the Minnesota River, Upper Mississippi River, St. Croix River, Cannon River, and several smaller tributaries. The three major basins (Minnesota, Mississippi, and St. Croix) account for 96% of the flow and 95% of the drainage area measured at Lock and Dam 3. MPCA has designated a portion of the Upper Mississippi River basin and the Minnesota River basin as the "Metroshed", which is comprised of the urbanized areas of Minneapolis, St. Paul, and surrounding suburbs.

This TMDL includes five Assessment Units (AUs) shown in Table 1 of this Decision Document. The table includes a reach of the Mississippi River listed as impaired by Wisconsin. While the TMDL project has been developed in cooperation with Wisconsin, this TMDL addresses only the waters in Minnesota, and a separate TMDL report will be developed by Wisconsin.

Reach and navigation pool	Assessment unit ID	Affected use	Pollutant or stressor
Mississippi River - Minnesota Minnesota River to Metro Wastewater Treatment Plant (River Mile 844 to 835; Pool 2)	07010206-505	Aquatic life	Total Suspended Solids
Mississippi River-Minnesota Metro Wastewater Treatment Plant to Rock Island Railroad Bridge (River Mile 835 to 830; Pool 2)	07010206-504	Aquatic life	Total Suspended Solids
Mississippi River-Minnesota Rock Island Railroad Bridge to Lock and Dam 2 (River Mile 830 to 815.2; Pool 2)	07010206-502	Aquatic life	Total Suspended Solids
Mississippi River-Minnesota Lock and Dam 2 to St. Croix River (River Mile 815.2 to 811.3; Upper Pool 3)	07010206-501	Aquatic life	Total Suspended Solids
Mississippi River-Minnesota St. Croix River through Lake Pepin to the Chippewa River, Wisconsin (River Mile 811.3 to 764.5; Pools 3- 4)	07040001-531*	Aquatic life	Total Suspended Solids
Wisconsin DNR listing: Mississippi (Reach 1) Rush-Vermillion - St. Croix R to Chippewa R (Pools 3- Lower Pool 4, Lake Pepin)(River Mile 811.5 to 763.4)	892119	Aquatic life	Sediment/Total Suspended Solids

Table 1 Waterbodies in the South Metro TSS TMDL

* - The TMDL applies to the upper portion of this segment, ending at RM 780.

Land use: Table 2 below (Table 2 of the final TMDL) states that the land use is primarily agricultural, but there is significant variation between basins. Land use in the Cannon River and Minnesota River basins are predominantly agricultural, while the St. Croix River is highly forested, and the Metroshed is urbanized.

Land cover Watershed	UMR Basin acres	St. Croix River Acres*	Cannon River acres	Mississippi River - Lake Pepin acres	Metroshed acres	Minnesota River acres	Total acres
Barren	3,694	1,773	427	1,123	2,557	. 8,317	17,891
Cultivated Crop	2,601,761	468,961	569,680	311,932	195,335	6,144,507	10,292,175
Developed	527,08 9	285,571	80,211	82,123	502,042	476,464	1,953,500
Forest	1,789,906	2,106,932	81,720	136,598	108,497	180,895	4,404,548
Grass/Pasture	1,818,420	1,009,451	151,590	119,063	170,315	449,798	3,718,636
Water	551,547	201,298	31,124	43,899	93,959	206.608	1,128,435
Wetland	1,0 1 0,773	866,569	26,524	17,017	63,613	302,952	2,287,448
Total	8,303,189	4,940,555	941,275	711.754	1,136,319	7,769,543	23,802,635

Table 2 Land Use in the South Metro TSS TMDL

* 46% of the basin is in Wisconsin

Problem Identification: The Executive Summary of the final TMDL document states that suspended sediment has reduced the amount of light penetration in the Lower Mississippi River

and upper Lake Pepin. As a result, the growth and maintenance of submerged aquatic vegetation (SAV) has been reduced. The loss of SAV has in turn reduced the migratory waterfowl and fish communities. The sediment is also filling in Lake Pepin at an accelerated pace, especially in the northern portion of the lake.

MPCA has gathered data on the South Metro segments for many years. The Upper Mississippi River has had relatively low levels of total suspended solids (TSS), and while it accounts for 36% of the South Metro watershed area, the Upper Mississippi River contributes only 16% of the annual load. The TSS concentrations average 20-25 mg/L in the southernmost reach of the Upper Mississippi River. However, at the confluence of the Minnesota River at river mile 844, TSS values increase dramatically, as the Minnesota River contributes large amounts of sediment to the Mississippi. Studies performed by the MPCA indicate that 75% of the TSS load to the South Metro segments come from the Minnesota River, while accounting for only 34% of the area. TSS concentrations average 112 mg/L at the mouth of the Minnesota River.

The TSS concentrations in the Metroshed basin remain relatively constant. Just downstream of the Mississippi River/Minnesota River confluence, TSS concentrations are 64 mg/L, and decrease to 52-55 mg/L at river mile 827, 17 miles downstream. Downstream of the Metroshed, the St. Croix River enters the Mississippi River. The St. Croix River has a relatively light load of TSS, averaging 4.5 mg/L TSS at the mouth of the river. The St. Croix accounts for 21% of the South Metro watershed area, but only 2% of the TSS load. The St. Croix River is the boundary between Minnesota and Wisconsin for much of its length, and approximately 46% of the St. Croix watershed is located in Minnesota. Further downstream, the Cannon River enters the Mississippi River. The Cannon River accounts for 4% of the area of the South Metro watershed, and contributes 6% of the TSS load. The TSS concentration averages 70 mg/L at the mouth of the Cannon River. MPCA also reviewed potential contributions from the direct drainage area surrounding Lake Pepin. Many of the tributaries on the Minnesota side are small creeks, with limited sampling data. However, MPCA does not believe the direct drainage watershed contributes significantly to the TSS impairments.

Priority Ranking: Section 1.1 of the TMDL states that the priority ranking is implicit in the TMDL schedule included in Minnesota's 303(d) list. MPCA began the South Metro TSS TMDL in conjunction with the Lake Pepin eutrophication TMDL. Both projects began in 2004, and were scheduled to be completed in 2009. During the development of the South Metro TMDL, MPCA determined that a site-specific criteria (SSC) for TSS as well as a SSC for the Lake Pepin eutrophication TMDL was needed. MPCA pursued the TSS site-specific criteria independently of the Lake Pepin site-specific eutrophication criteria, which was recently approved. The TSS SSC addresses the river from RM 844-780, the upper pool of Lake Pepin.

The South Metro watershed was given a priority ranking for TMDL development due to: the impairment impacts on public health and aquatic life, the public value of the impaired water resource, the likelihood of completing the TMDL in an expedient manner, the inclusion of a strong base of existing data and the restorability of the water body, the technical capability and the willingness of local partners to assist with the TMDL, and the appropriate sequencing of TMDLs within a watershed or basin. Lake Pepin and the Lower Mississippi River are popular locations for aquatic recreation, and are highly prized resources by Minnesota. Water quality

degradation has led to efforts to improve the overall water quality within the South Metro segments, and to the development of TMDLs.

Pollutants of Concern: The pollutant of concern for the aquatic life use impairments is excessive TSS which can impact SAV and aquatic communities within the waterbodies.

Source Identification: Point sources and nonpoint sources contribute to TSS impairments in the South Metro watershed.

Point Source Identification: The point sources include permitted treatment facilities, Municipal Separate Storm Sewer Systems (MS4s), and Construction and Industrial stormwater.

<u>Wastewater Permits</u>: MPCA identified a total of 486 permittees in Minnesota that discharge to waters in the South Metro watershed (Appendices 1 and 2 of this TMDL Decision Document). These are a mixture of municipal wastewater treatment facilities and industrial wastewater permits. Of these, 322 have effluent limits below the applicable Water Quality Standard (WQS) of 32 mg/L TSS or have no effluent limits as the facility does not discharge TSS. MPCA also identified 164 facilities that discharge over the 32 mg/L WQS. MPCA noted that all these facilities are controlled discharge stabilization lagoons, and are limited to 45 mg/L TSS through their NPDES permit. MPCA has determined that wastewater permits have a limited impact on water quality in the South Metro watershed.

<u>MS4</u>: Stormwater from areas regulated as MS4 communities can contain sediment washed off the land surface and into the stormwater system. MPCA identified 222 MS4 systems in the South Metro watershed, and determined the loading as an aggregate load.

<u>Construction and Industrial Stormwater</u>: MPCA identified stormwater runoff from construction and industrial sites as a very minor source of TSS. These sites are regulated under the NPDES program, and the loading was determined as an aggregate load.

Nonpoint Source Identification: The potential nonpoint sources to the South Metro watershed were identified by basin:

<u>Upper Mississippi River/St. Croix River</u>: MPCA noted that these two river basins are forested over most of the landscape, and contribute relatively little sediment. The downstream portion of the Upper Mississippi River has more agricultural land, where more sediment is added to the river. MPCA estimates 40% of the TSS load from these basins is sediment washed off cultivated land in the downstream portion of the basin, and 60% is estimated to come from eroded streambanks, bluffs, and ravines. During precipitation events, the force of the runoff erodes gullies and ravines, washing large amounts of sediment into the tributary rivers and streams, and eventually into the Upper Mississippi. This runoff can be exacerbated by tile drainage and other construction designed to move the water quickly off the land and into the drainage systems. The higher flow velocities contribute to increased erosion in the gullies, ravines, and stream banks.

<u>Minnesota River</u>: The Minnesota River contributes the largest amount of sediment to TMDL waterbodies. The TSS values increase moving downstream, as a result of changing land use and

geology. Over 80% of the Minnesota River basin is cultivated for crops, and is composed of finer-grained soils. These soils are easily eroded during precipitation events. MPCA also noted that sediment in the Minnesota River is generated from four main sources: upland field runoff, ravines, bluffs, and streambanks (*Identifying Sediment Sources in the Minnesota River Basin*, MPCA, 2009). The upland field runoff is due to precipitation runoff from cultivated fields washing sediment into small tributaries, and eventually into the Minnesota River. Drainage of these fields, either by tile drainage or surface alterations, increases the amount and velocity of runoff, often forming ravines, where higher loads of sediment are eroded and moved downstream. The Minnesota River is also lined by significant bluffs, which are being eroded as the landscape continues to respond to glacial events. These bluffs are fine-grained glacial material, and are easily eroded as the nick points migrate upstream. Nick points define abrupt breaks in slope. MPCA also noted that the flow in the Minnesota River as increased over the last decades, mainly as a result of increased drainage alterations (Figure 3 of the TMDL). These increased flows have increased streambank and bluff erosion, increasing sediment loads from these sources.

<u>Metroshed</u>: As noted above, the Metroshed is defined by MPCA as the Twin Cities metropolitan area (Page 28 of the TMDL). This area is evenly divided between developed urban land and cropland/grassland. Nonpoint sources in this basin include runoff from cultivated land, with limited ravine and bluff erosion.

<u>Cannon River</u>: The Cannon River is similar to the Minnesota River in land use, primarily agricultural in nature. Runoff from cultivated areas contributes most of the sediment, as does erosion from hills/bluffs in the lower portion of the watershed.

<u>Mississippi River-Lake Pepin direct watershed</u>: MPCA also investigated the sediment sources in the direct watershed for the South Metro/Lake Pepin watershed. MPCA noted that the watershed is a mix of cultivated land and forest/pasture. There are bluffs and hills located near the Mississippi River which are sources of sediment during precipitation events, and with the pasture land increasingly being converted to cropland, the potential for increased erosion and increased flows means there is a greater likelihood of bluff/ravine erosion occurring in the near future (Page 27 of the TMDL).

Future growth: Sections 6.0 and 6.5 of the TMDL state that MPCA set aside a future growth (reserve capacity) load. This load was calculated for all wastewater treatment facilities that discharge above the 32 mg/L TSS criteria. MPCA set aside 50% of the permitted load for these facilities for future growth. MPCA stated in Section 6.5 of the TMDL that the allocations for nonpoint sources (load allocation or LA) are for all current and future sources, and that any expansion of nonpoint sources will need to comply with the LA.

EPA finds that the TMDL document submitted by MPCA satisfies all requirements concerning this first element.

2. Description of the Applicable Water Quality Standards and Numeric Water Quality Target

The TMDL submittal must include a description of the applicable State/Tribal water quality standard, including the designated use(s) of the waterbody, the applicable numeric or narrative water quality criterion, and the antidegradation policy (40 C.F.R. $\S130.7(c)(1)$). EPA needs this information to review the loading capacity determination, and load and wasteload allocations, which are required by regulation.

The TMDL submittal must identify a numeric water quality target(s) – a quantitative value used to measure whether or not the applicable water quality standard is attained. Generally, the pollutant of concern and the numeric water quality target are, respectively, the chemical causing the impairment and the numeric criteria for that chemical (e.g., chromium) contained in the water quality standard. The TMDL expresses the relationship between any necessary reduction of the pollutant of concern and the attainment of the numeric water quality target. Occasionally, the pollutant of concern is different from the pollutant that is the subject of the numeric water quality target (e.g., when the pollutant of concern is phosphorus and the numeric water quality target is expressed as Dissolved Oxygen (DO) criteria). In such cases, the TMDL submittal should explain the linkage between the pollutant of concern and the chosen numeric water quality target.

Comment:

Designated Uses:

Section 4.1 of the TMDL lists all the beneficial use classifications for Minnesota (Minn. Rules Ch. 7050.0140 and 7050.0220).

- 1. Domestic consumption
- 2. Aquatic life and recreation
 - A. Cold water sport fish (trout waters), also protected for drinking water
 - B. Cool and warm water sport fish, also protected for drinking water
 - C. Cool and warm water sport fish, indigenous aquatic life, and wetlands, and
 - D. Limited resource value waters
- 3. Industrial consumption
- 4. Agriculture and wildlife
- 5. Aesthetic enjoyment and navigation
- 6. Other uses
- 7. Limited resources value

The designated uses for the Mississippi River (Metro WWTP to Rock Island Bridge) are 2C, 3B, 3C, 3D, 4, 5 and 6. For the other four Minnesota segments, the designated uses are 2B, 3B, 3C, 3D, 4, 5 and 6. The most restrictive use regarding TSS is Class 2, which is described in Minnesota Rule 7050.0140 (3): "Aquatic life and recreation includes all waters of the state that support or may support fish, other aquatic life, bathing, boating, or other recreational purposes and for which quality control is or may be necessary to protect aquatic or terrestrial life or their habitats or the public health, safety, or welfare."

<u>Narrative Criteria</u>: Minnesota Rule 7050.0150 (3) set forth narrative criteria for Class 2 waters of the State: "For all Class 2 waters, the aquatic habitat, which includes the waters of the state and stream bed, shall not be degraded in any material manner, there shall be no material increase in undesirable slime growths or aquatic plants, including algae, nor shall there be any significant increase in harmful pesticide or other residues in the waters, sediments, and aquatic flora and fauna; the normal fishery and lower aquatic biota upon which it is dependent and the use thereof shall not be seriously impaired or endangered, the species composition shall not be altered materially, and the propagation or migration of the fish and other biota normally present shall not be prevented or hindered by the discharge of any sewage, industrial waste, or other wastes to the waters."

Standard for TSS: MPCA developed a SSC for TSS for the waters listed in Table 1 of this Decision document (Section 4.1.1 of the TMDL). The segments were initially listed as impaired under the turbidity criteria in force in 1998. During the development of the TMDL, MPCA determined that a SSC would be more appropriate to protect the aquatic life use in the South Metro watershed. This SSC was developed to protect submerged aquatic vegetation in the Mississippi River and associated backwaters. The SSC was determined to be 32 mg/L, measured as a summer mean from June 1 to September 30, and must be attained in at least five summers out of ten years.

During the early development of the TMDL, MPCA had determined that the 25 NTU turbidity standard was equivalent to a TSS value of 64 mg/L, well above the SSC of 32 mg/L. Secondary monitoring targets related to supporting the SAV were also developed, but are not part of the WQS. These targets include not exceeding a seasonal average of 44 mg/L TSS in more than one year out of a 10-year assessment period: and attaining a 21% SAV frequency (defined as attaining the SAV monitoring survey frequency of 21% using the USEPA's Environmental Mapping and Assessment Program protocol).

Target: The SSC for the South Metro watershed is 32 mg/L. MPCA calculated the target for the TMDL as 30 mg/L, to account for Margin of Safety (Section 6 of this Decision Document).

EPA finds that the TMDL document submitted by MPCA satisfies all requirements concerning this second element.

3. Loading Capacity - Linking Water Quality and Pollutant Sources

A TMDL must identify the loading capacity of a waterbody for the applicable pollutant. EPA regulations define loading capacity as the greatest amount of a pollutant that a water can receive without violating water quality standards (40 C.F.R. §130.2(f)).

The pollutant loadings may be expressed as either mass-per-time, toxicity or other appropriate measure (40 C.F.R. §130.2(i)). If the TMDL is expressed in terms other than a daily load, e.g., an annual load, the submittal should explain why it is appropriate to express the TMDL in the unit of measurement chosen. The TMDL submittal should describe the method used to establish the cause-and-effect relationship between the numeric target and the identified pollutant sources. In many instances, this method will be a water quality model.

The TMDL submittal should contain documentation supporting the TMDL analysis, including the basis for any assumptions; a discussion of strengths and weaknesses in the analytical process; and results from any water quality modeling. EPA needs this information to review the loading capacity determination, and load and wasteload allocations, which are required by regulation.

TMDLs must take into account *critical conditions* for steam flow, loading, and water quality parameters as part of the analysis of loading capacity (40 C.F.R. §130.7(c)(1)). TMDLs should define applicable *critical conditions* and describe their approach to estimating both point and nonpoint source loadings under such *critical conditions*. In particular, the TMDL should discuss the approach used to compute and allocate nonpoint source loadings, e.g., meteorological conditions and land use distribution.

<u>Comment:</u> TMDL = Loading Capacity (LC) = WLA + LA + MOSSections 5 and 6 of the TMDL discuss the methodologies used for the TSS allocations and reductions.

Modeling: To calculate the TSS loadings for the TMDL, MPCA developed the Upper Mississippi River-Lake Pepin Water Quality Model (UMR-LP). This model consists of two parts, a hydrodynamic water quality model called ECOMSED and the Row-Column AESOP water quality model (RCA). The UMR-LP model was developed in conjunction with the project's Science Advisory Panel. A modeling report was developed by Limnotech in 2009 that discusses the development, calibration, and implementation of the model (*Upper Mississippi River-Lake Pepin Water Quality Model: Development, Calibration, and Application*, Limnotech, 2009).

ECOMSED is a three-dimensional hydrodynamic and sediment transport model developed initially for estuaries and marine environments, but has been updated to apply to freshwater environments (Limnotech, 2009, Exec. Summary). The "ECOM" component of the model is used to simulate three-dimensional and time dependent hydrodynamic behavior in the South Metro Mississippi River segments. The "SED" component simulates the transport and fate of cohesive and non-cohesive sediments. Advective/dispersive transport and deposition and resuspension processes are simulated for cohesive sediments, which represent clays, fine and medium silts, and associated organic material. Likewise, transport and deposition/resuspension is simulated for a non-cohesive sediment class, which typically represents medium to coarse sands.

The RCA model focuses more on the Lake Pepin eutrophication TMDL that is being developed in conjunction with the South Metro TSS TMDL. The model simulates water column processes that impact water quality. Numerous chemical inputs (including nitrogen, carbon, phosphorus, and algae) are linked to the cycling of detritus material, sediment oxygen demand, and algal growth to track eutrophication in the system.

The ECOMSED model treats the 5 segments of the South Metro watershed (Table 1 above) as a single segment. Allocations were calculated for each of the tributary watersheds, and the model was run across the entire length of the river system, from RM 844 to RM 780, to determine attainment of the SSC. EPA agrees this is appropriate, as the modeling report explains in detail

how the model accounted for flows along the river. The model report also explains how the unique hydrology due to the locks and dams in the river was used in the model. In addition, since the direct drainage watershed to the South Metro segments have limited impact on water quality, assigning loads to the overall river based upon major tributary watersheds more accurately portrays the impairment causes.

<u>Scenarios</u>: To determine the tributary allocations needed to attain the SSC, 21 scenarios were run, ranging from the current baseline to reducing to pre-settlement conditions. For the scenarios 1-19, TSS, TP, and algae were reduced at various levels to determine resulting water quality. Although Scenario 17 appeared to attain WQS for both TSS and TP, the Science Advisory Panel asked MPCA to conduct additional scenarios, focusing on the Minnesota River to determine the effects of seasonal variations in TSS loading. The additional scenarios were inconclusive, but MPCA noted that the scenarios provide a general indication of the types and magnitude of the land use changes needed to meet the load allocation for the Minnesota River in Scenario 17 (Table 3 of this Decision Document).

MPCA further adjusted Scenario 17 to account for additional refinements in how the SSC is defined (a moving 10-year average) and to account for high-flow conditions (Table 4 of this Decision Document; Section 6.0 of the TMDL). As a result, the adjustments were: 1) no TSS reductions in the St. Croix River, as the river is well below the WQS; and 2) additional TSS reductions from the Minnesota River, 60% instead of 50% during very high and high flows during the non-winter months.

 Table 3 Assumptions for Scenarios 20-21 for the Minnesota River (from Limnotech Modeling report, 2009)

- Increase perennial vegetation to 20 percent of the watershed, targeting erosive areas downstream of nick points in the Blue Earth and Le Sueur watersheds, in particular.
- Implement conservation tillage on 75 percent of land with slopes greater than 3 percent, along with cover crops to reduce spring runoff.
- Eliminate all surface tile inlets.
- Follow University nutrient management recommendations.
- Use of drop structures on ravines to achieve 30-40 percent sediment loading reduction.
- Use controlled drainage on cropland with less than 1 percent slope, along with twostage ditch design, storing the first inch of field and urban runoff for at least 24 hours.
- Stabilize stream banks and bluffs by reducing stream flow and scour.

Table 4	TSS	Reductions	needed
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6 A B							
		Upper Miss River	Minnesota River	River	Cannon River	Other Tributaries	Resuspension
	Revised Scenario 17	20%	50% (60%)*	0%	50%	20%	50%

* - under very high and high flows

Once the modeling was complete, MPCA calculated the allocations needed to attain the SSC. Table 5 below provides the TMDL summary for the South Metro TSS TMDL. MPCA further broke the loadings down by flow conditions. MPCA stressed that these flow conditions are <u>not</u> the same as in load durations curves (*An Approach for Using Load Duration Curves in the Development of TMDLs*, EPA, 2007). The flow regimes are based upon historical monitoring data at Lock and Dam 2 and are based upon annual flows, not daily flows as for load duration curves. For example, the very high flows were based upon the years 1986, 1993, and 2001 (Section 6.0 of the TMDL).

Category	Flow condition	Miss I Lake I		Metroshed	Upper Miss.	Minnesota River	St. Cro River	oix	Cannon River	State Total	S	Grand Totals
		MN	WI WI		River		MN	WI		MN	WJ	
		1	1			Kilograms		1				
Stormwater	Very High	<u> </u>			1		-			5,286	152	5,438
(Industrial/	High									4,120	118	4,238
Construction)											94	3,351
,	Low							-			72	2,576
	Very low									1,726	50	1,776
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Stormwater	Very High	13,750	0	150,923	42,226	12,764	9,914	2,523	6,524	236,102	2,523	238,625
(MS4s)*	High	10,717	0	117,630	32,911	9,949	7,727	1,967	5,085	184,018	1,967	185,985
(141042)	Moderate	8,474	0	93,014	26,024	7,867	6,110	1,555	4,021	145,509	1,555	147,064
		6,515	0	71,508	20,024	6,048	4,697	1,195	3,091	111,866	1,195	113,061
	Low	4,491	0	49,294	13,792	4,169	3,238	824	2.131	77,115	824	77,939
	Very low	4,491		49,294	13,792	4,109	٥٢٤,٢	024		LI,113	024	11,939
VVI	χτ. τι τ	1 1 0 1 2	250	65 351	41.640	40.100	11 400	2095	2 001	164.105	2 241	147 494
Wastewater	Very High	1,843	256	65,251	41,649	40,199	11,432	2,985	3,821	164,195	3,241	167,436
Treatment	High	1,843	256	65,251	41,649	40,199	11,432	2,985	3,821	164,195	3,241	167,436
Plants	Moderate	1,843	256	65,251	41,649	40,199	11,432	2,985	3,821	164,195	3,241	167,436
	Low	1,843	256	65,251	41,649	40,199	11,432	2,985	3,821	164,195	3,241	167,436
	Very low	1,843	256	65,251	41,649	40,199	11,432	2,985	3,821	164,195	3,241	167,436
	1							1.0.100	00.000	1 2 60 420	0.010	
Natural	Very High	1,339	1,149	7,005	42,771	288,912	6,840	8,169	22,553	369,419	9,318	378,737
Background	High	882	757	4,613	28,167	190,263	4,505	5,379	14,852	243,281	6,136	249,417
	Moderate	742	636	3,879	23,688	160,008	3,788	4,524	12,490	204,596	5,160	209,756
	Low	529	454	2,767	16,893	114,108	2,702	3,226	8,907	145,905	3,680	149,585
	Very low	256	219	1,336	8,160	55,121	1,305	1,558	4,303	70,481	1,778	72,259
		0.0-7	10 444	00.710	120.052	1 1 100 505	00.140	25120	105 727	1 1 7 4 4 4 4 4	45 000	1 001 000
LA**	Very High	9,056	10,665	33,115	439,853	1,138,606	29,143	35,128	105,737	1,755,510		1,801,303
ŀ	High	8,409	9,140	27,836	291,163	728,708	31,089	36,090	81,296	1,168,501		and the second sec
	Moderate Internal load (for Total)	10,794	9,250	28,882	242,059	793,503	23,922	28,466	65,724	1,164,885	37,715	1,202,600 144,114
-	Low	7.337	6,835	25,773	171,026	547,706	15,182	19,825	57,527	824,550	26,660	851,210
ŀ	Very low	5.560	5.182	23,719	104,345	361,976	8,253	12,812	34,607	538,459	17,993	
									<u></u>			1 12 1
Wastewater	Very High	0	13	5	716	41	1	146	13	775	159	934
Reserve	High	0	13	5	716	41	1	146	13	775	159	934
Capacity***	Moderate		13	5	716	41	1	146	13	775	159	934
1	Low	0	13	5	716	41	1	146	13	775	159	934
	Very low	0	13	5	716	41]]	146	13	775	159	934
	1 1 01 10 10				_ · · · · · · · · · · · · · · · · · · ·			- l				
Total	Very High	25,988	12,083	256,300	567,213	1,480,521	57,330	48,951	138,649	2,531,28	7 61,185	5 2,592,473
Loading	High	21,851	10,165	215,335	394,604	969,159	54,754	46.568				
Capacity	Moderate	21,853	10,105	191,031	334,134	1,001,617	45,253	37,676		1,683,21		
Capacity	Low	16,223	7,557	165,304	250,290	708,101	34,013	27,378		1,085,21		www.chansen.com
	Very low	10,149	5,669	139,606	168.661	461,506	24,013	18,326	4	852,752	24.04	
			ral back		100.001	402,200	. <u> </u>	020,020	1 -7,070	1 004,104	_ <u>∠</u> =,0=,	010,171

Table 5 TMDL summary for the South Metro TSS TMDL.

includes natural background internal loading is a subset of the total LA; see Section 4 of this Decision Document **

described in Section 5 of this Decision Document ***

Critical Conditions:

Section 6 of the TMDL states that the critical condition for the TMDL is the very high/high flow conditions. It is under these conditions that flow velocities are high enough to erode bluffs, gullies and ravines in the watershed, dramatically increasing TSS loads into the tributaries and eventually the South Metro waterbodies. The TMDL specifically increased the reductions needed to address the critical condition. EPA finds that the TMDL document submitted by MPCA satisfies all requirements concerning this third element.

4. Load Allocations (LAs)

EPA regulations require that a TMDL include LAs, which identify the portion of the loading capacity attributed to existing and future nonpoint sources and to natural background. Load allocations may range from reasonably accurate estimates to gross allotments (40 C.F.R. §130.2(g)). Where possible, load allocations should be described separately for natural background and nonpoint sources.

<u>Comment</u>: Load allocations are in Table 5 above. The LAs are based upon the ECOMSED model results for bluff, ravine, gully and field run-off. MPCA determined that there was not sufficient data to calculate LAs for these various sources, and noted that these studies will need to be performed at smaller scales.

Natural background was determined through sediment core analysis in Lake Pepin (Engstrom *et al.*, 2009). MPCA noted that sedimentation rates were 10 times less in the pre-settlement times, and therefore based the natural background allocation as one-tenth of the current TSS loading (Section 6.2 of the TMDL). This natural background load was then apportioned to each basin based upon the relative contribution of sediment to Lake Pepin. For example, if a basin contributes 25% of the TSS load to the South Metro watershed, then 25% of the natural background load was allocated to that basin.

MPCA calculated a load allocation for internal load, which they defined as resuspension of existing sediments due to wind and wave action. The modeling effort was limited to the main channel and large backwaters such as Spring Lake. The internal load LA was modeled for the average (moderate) flow condition, and therefore is only depicted in the moderate flow regime of the LA (in italics in Table 5 of this Decision Document). EPA agrees this is reasonable, as the modeling results indicate it becomes more difficult to separate resuspended sediments from increased flow-based loads under higher flow conditions. MPCA stated that internal loading/resuspension occurs under all flow regimes, and that efforts to achieve the needed 50% sediment reduction will benefit all flow regimes.

EPA finds that the TMDL document submitted by MPCA satisfies all requirements concerning this fourth element.

5. Wasteload Allocations (WLAs)

EPA regulations require that a TMDL include WLAs, which identify the portion of the loading capacity allocated to individual existing and future point source(s) (40 C.F.R. §130.2(h), 40

C.F.R. §130.2(i)). In some cases, WLAs may cover more than one discharger, e.g., if the source is contained within a general permit.

The individual WLAs may take the form of uniform percentage reductions or individual mass based limitations for dischargers where it can be shown that this solution meets WQSs and does not result in localized impairments. These individual WLAs may be adjusted during the NPDES permitting process. If the WLAs are adjusted, the individual effluent limits for each permit issued to a discharger on the impaired water must be consistent with the assumptions and requirements of the adjusted WLAs in the TMDL. If the WLAs are not adjusted, effluent limits contained in the permit must be consistent with the individual WLAs specified in the TMDL. If a draft permit provides for a higher load for a discharger than the corresponding individual WLA in the TMDL, the State/Tribe must demonstrate that the total WLA in the TMDL will be achieved through reductions in the remaining individual WLAs and that localized impairments will not result. All permittees should be notified of any deviations from the initial individual WLAs contained in the TMDL. EPA does not require the establishment of a new TMDL to reflect these revised allocations as long as the total WLA, as expressed in the TMDL, remains the same or decreases, and there is no reallocation between the total WLA and the total LA.

Comment:

<u>Wastewater Treatment Facilities (WWTF)</u>: Individual WLAs are in Appendix A at the end of this document, and are summarized in Table 5 above. The EPA notes that Table 5 and Appendix A of this Decision Document contain WLAs for several Wisconsin facilities. These Wisconsin WLAs are not part of this decision process, and are not considered approved as part of this TMDL. Although the South Metro TSS TMDL is a coordinated effort between Minnesota and Wisconsin, Wisconsin will be submitting a separate TMDL to address Wisconsin waterbodies.

MPCA identified 486 wastewater treatment facilities (WWTF) that are authorized to discharge to waterbodies in the South Metro watershed. Of these, 322 have effluent limits of 30 mg/L or less (as per MPCA effluent limit regulations) or do not contain a TSS effluent limit because the discharge does not contain TSS. MPCA did not assign reductions in TSS to these facilities. These facilities are listed in Appendix A.1 of this Decision Document (Appendix A.1 of the TMDL). The WLAs were calculated based upon the facility's design flow multiplied by the 30 mg/L effluent limit (Section 6.1 of the TMDL). For the facilities without a TSS effluent limit, the WLAs were calculated based upon the facility's design flow and the 32 mg/L SSC. MPCA noted that some facilities have water that is pulled from the Mississippi River and used for cooling purposes. MPCA determined that these facilities do not need a TSS WLA, as the water is pass-through, and the TSS concentrations are not altered.

MPCA also identified 164 facilities that discharge over the 32 mg/L TSS SSC (Appendix A.2 of this Decision Document; Appendix A.2 of the TMDL). These facilities are controlled discharge stabilization ponds, which discharge twice a year (as per their permit). The TSS effluent limit for these facilities is 45 mg/L. MPCA has determined that these facilities do not discharge significant loads of TSS, and therefore has calculated the WLAs for these facilities as the design discharge rate multiplied by the 45 mg/L effluent limit.

<u>MS4s</u>: To determine the WLAs for MS4 areas, MPCA calculated the urbanized area within the South Metro watershed (Section 6.1.2 and Figure 18 of the TMDL). MPCA then applied the actual MS4 boundaries to the mapped areas, generating an area of 768, 445 acres. MPCA next determined an allowable average sediment export rate, based upon data and reports from the US Army Corp of Engineers (USACOE). The final result was an annual median export coefficient of 154 pounds per acre, which was multiplied by the developed acreage to calculate an overall WLA of 53, 678 metric tons per year, based upon average flow. This was then increased/decreased proportionally for each flow regime. MPCA does not anticipate any reductions needed from the MS4s in the St. Croix River or Upper Mississippi River at this time. MPCA will be working with MS4s in the other basins on attaining the 154 lbs/acre export rate. The MS4 WLAs are categorical WLAs, and were not specifically determined for each MS4 entity (Appendix B of this Decision Document, Appendix B of the TMDL).

<u>Construction and Industrial Stormwater</u>: MPCA set aside 0.1% of the total WLA to account for TSS loading from construction and industrial stormwater. This WLA accounts for any construction stormwater or industrial stormwater generated within the TMDL watersheds (Sections 6.1.3 and 6.1.4 of the TMDL).

MPCA explained that BMPs and other stormwater control measures should be implemented at active construction sites to limit the discharge of pollutants of concern. BMPs and other stormwater control measures which should be implemented at construction sites are defined in the State's NPDES/State Disposal System (SDS) General Stormwater Permit for Construction Activity (MNR100001). If a construction site owner/operator obtains coverage under the NPDES/SDS General Stormwater Permit and properly selects, installs and maintains all BMPs required under the permit, including those related to impaired waters discharges and any applicable additional requirements found in Appendix A of the Construction General Permit, the stormwater discharges would be expected to be consistent with the WLA in this TMDL.

The WLA for stormwater discharges from sites where there is industrial activity reflects the number of sites in the watershed for which NPDES industrial stormwater permit coverage is required, and the BMPs and other stormwater control measures that should be implemented at the sites to limit the discharge of pollutants of concern (Appendix A.3 of this Decision Document, Appendix A.3 of the TMDL). BMPs and other stormwater control measures which should be implemented at the industrial sites are defined in the State's NPDES/SDS Industrial Stormwater Multi-Sector General Permit (MNR050000) or NPDES/SDS General Permit for Construction Sand & Gravel, Rock Quarrying and Hot Mix Asphalt Production facilities (MNG490000). If a facility owner/operator obtains coverage under the appropriate NPDES/SDS General Stormwater Permit and properly selects, installs and maintains all BMPs required under the permit, the stormwater discharges would be expected to be consistent with the WLA in this TMDL.

Concentrated Animal Feeding Operations (CAFOs) were not considered significant sources of TSS and were therefore not given an allocation (WLA = 0).

EPA finds that the TMDL document submitted by MPCA satisfies all requirements concerning this fifth element.

6. Margin of Safety (M•S)

The statute and regulations require that a TMDL include a margin of safety (MOS) to account for any lack of knowledge concerning the relationship between load and wasteload allocations and water quality (CWA $\S303(d)(1)(C)$, 40 C.F.R. $\S130.7(c)(1)$). EPA's 1991 TMDL Guidance explains that the MOS may be implicit, i.e., incorporated into the TMDL through conservative assumptions in the analysis, or explicit, i.e., expressed in the TMDL as loadings set aside for the MOS. If the MOS is implicit, the conservative assumptions in the analysis that account for the MOS must be described. If the MOS is explicit, the loading set aside for the MOS must be identified.

Comment:

The South Metro TSS TMDL uses an implicit MOS (Section 6.3 of the TMDL). MPCA explained how conservative assumptions were used in the ECOMSED model (Limnotech, 2009). The ECOMSED model went through an extensive calibration and confirmation process, as noted in detail in Section 4 of the modeling report (Limnotech, 2009). The model was developed with 22 years of data, which allowed an 11 year calibration and an 11 year validation process to be performed. Results of the calibration and confirmation process indicated a very good agreement with the sampling data (Section 4 of Limnotech, 2009), indicating the model adequately represents the South Metro watershed.

The initial model runs indicated that modeled sediment loads did not match measured data. Further analysis of the model results indicated that the lower portion of Pool 2 had spikes of sediment resuspension due to wave action. Although the model in general accounted for resuspension of sediment, the model was adjusted to include an additional "background resuspension" load in the June to September timeframe. After further model runs, MPCA determined the adjustments successfully addressed the TSS resuspension problem (Section 6.3 of the TMDL; Section 4.2 of Limnotech, 2009).

MPCA noted that the model adjustments did result in an over-prediction of flow peaks in highflow years. Since the loads are, in large part, based upon flows in the river, this over-prediction of flow peaks means the TSS loads are somewhat over-predicted, resulting in load reductions slightly higher than needed to attain the TMDL target.

MPCA also included additional MOS by setting the target of the TMDL to 30 mg/L of TSS, below the SSC of 32 mg/L. The allocations in Table 5 are set to attain the TMDL target of 30 mg/L, a 6% reduction below the SSC.

EPA finds that the TMDL document submitted by MPCA contains an appropriate MOS satisfying all requirements concerning this sixth element.

7. Seasonal Variation

The statute and regulations require that a TMDL be established with consideration of seasonal variations. The TMDL must describe the method chosen for including seasonal variations. $(CWA \S 303(d)(1)(C), 40 \text{ C.F.R. } \S 130.7(c)(1)).$

Comment:

Seasonal variation was considered as described in Section 6.4 of the TMDL. The development of the ECOMSED model utilized hourly flow measurements from several USGS and USCOE gages over a period of 20 years. These flow measurements were collected over a variety of flow conditions observed within the South Metro watershed. The model represented a wide range of flow conditions, and thereby accounted for seasonal variation.

Given the amount of agricultural land use in the watershed, sediment loadings in the South Metro watershed vary with agricultural activity, particularly in the Minnesota River. Sediment inputs to surface waters typically occur primarily through wet weather events. MPCA analyzed the model results, and determined that additional reductions in TSS loads were needed from the Minnesota River during higher flow regimes. As a result of this analysis, MPCA increased the amount of reductions in TSS to 60% during high and very high flow regimes.

EPA finds that the TMDL document submitted by MPCA satisfies all requirements concerning this seventh element.

8. Reasonable Assurances

When a TMDL is developed for waters impaired by point sources only, the issuance of a NPDES permit(s) provides the reasonable assurance that the wasteload allocations contained in the TMDL will be achieved. This is because 40 C.F.R. 122.44(d)(1)(vii)(B) requires that effluent limits in permits be consistent with "the assumptions and requirements of any available wasteload allocation" in an approved TMDL.

When a TMDL is developed for waters impaired by both point and nonpoint sources, and the WLA is based on an assumption that nonpoint source load reductions will occur, EPA's 1991 TMDL Guidance states that the TMDL should provide reasonable assurances that nonpoint source control measures will achieve expected load reductions in order for the TMDL to be approvable. This information is necessary for EPA to determine that the TMDL, including the load and wasteload allocations, has been established at a level necessary to implement water quality standards.

EPA's August 1997 TMDL Guidance also directs Regions to work with States to achieve TMDL load allocations in waters impaired only by nonpoint sources. However, EPA cannot disapprove a TMDL for nonpoint source-only impaired waters, which do not have a demonstration of reasonable assurance that LAs will be achieved, because such a showing is not required by current regulations.

Comment:

Section 7 of the TMDL discusses the recent "Sediment Reductions Strategy for the Minnesota River Basin and South Metro Mississippi River" (the "Sediment Strategy"). This document was finalized in 2015. The Sediment Strategy provides an overview of actions and programs needed to attain the TSS reductions required in the South Metro watershed.

The Sediment Strategy discusses the draft South Metro TMDL, identifies several general milestones for sediment reduction, strategies and actions for sediment reduction based upon the source type, provides direction for engaging stakeholders and civic groups, as well as monitoring and tracking information. Several priority initiatives are identified in the Sediment Strategy, including:

- Reduce peak flow magnitude and duration
- Flow duration and magnitude goals
- Set water storage goals by watershed
- Define effective water storage practices
- Consider hydrology and downstream waters in local watershed planning efforts
- Funding assistance
- Increase living cover
- Combine state and federal funding for CRP-RIM partnership for water storage
- Development of a Sediment Reduction Task Force
- Stakeholder Workgroups

In Section 7.3 of the TMDL, MPCA noted the work included in the Chesapeake Bay TMDL, and stated they will loosely adopt the Chesapeake Bay Reasonable Assurance framework, with some modifications as follows:

- Develop strategies for the basins of the Minnesota, Upper Mississippi, and Cannon Rivers, plus direct watersheds, to meet TMDL allocations according to a phased schedule of implementation. This strategy will include how specific activities will be implemented at the appropriate scale – broad basin-wide initiatives and more specific actions for major watersheds. The MPCA staff will lead these strategies in accordance with the watershed approach.
- Evaluate existing programmatic, funding, and technical capacity to fully implement basin and watershed strategies.
- Identify gaps in current programs, funding, and local capacity to achieve the needed controls.
- Commit to systematically fill gaps and build program capacity. Agree to meet specific, iterative, short-term milestones. Demonstrate increased implementation and/or pollutant reductions.
- Commit to track/monitor/assess and report progress at set regular times adaptive management.
- Accept contingency requirements if certain milestones are not on schedule.

MPCA noted that significant point source reductions are not expected, as these sources contribute a relatively small amount of TSS. The contingency requirements could take the form of :

• Review of statewide nonpoint source control programs and policies by state agencies and their implementation by local agencies.

- Requirements or inducements to implement existing nonpoint source authorities, including protected shoreland buffers (Minn. Stat. § 103F.201). For example, Dodge, Dakota, Goodhue, Olmsted, Wabasha, and Winona counties are working to achieve county-wide compliance using existing staff.
- Require buffers on public drainage ditches (Minn. Stat. § 103E.021) by a time certain. Six counties in the Minnesota River Basin have ordered a redetermination of benefits on all systems, which results in buffer implementation. These include Martin, Sibley, Freeborn, Steele, Redwood, and Faribault. Fourteen other counties have applied this process to selected drainage systems.
- Prohibition against excessive soil loss (Minn. Stat. § 103F.415). Fillmore, Olmsted, and Mower counties have such an ordinance in place.
- Prohibition of nuisance nonpoint source pollution (Minn. R. 7050.0210, subp. 2).
- Other existing regulatory measures that may be identified in the TMDL implementation plan.

<u>Clean Water Legacy Act</u>: The CWLA was passed in Minnesota in 2006 for the purposes of protecting, restoring, and preserving Minnesota water. The CWLA provides the protocols and practices to be followed in order to protect, enhance, and restore water quality in Minnesota. The CWLA outlines how MPCA, public agencies and private entities should coordinate in their efforts toward improving land use management practices and water management. The CWLA anticipates that all agencies (i.e., MPCA, public agencies, local authorities and private entities, etc.) will cooperate regarding planning and restoration efforts. Cooperative efforts would likely include informal and formal agreements to jointly use technical, educational, and financial resources.

The CWLA also provides details on public and stakeholder participation, and how the funding will be used. In part to attain these goals, the CWLA requires MPCA to develop Watershed Restoration and Protection Strategies (WRAPS). The WRAPS are required to contain such elements as the identification of impaired waters, watershed modeling outputs, point and nonpoint sources, load reductions, etc. (Chapter 114D.26; CWLA). The WRAPS also contain an implementation table of strategies and actions that are capable of achieving the needed load reductions, for both point and nonpoint sources (Chapter 114D.26, Subd. 1(8); CWLA). Implementation plans developed for the TMDLs are included in the table, and are considered "priority areas" under the WRAPS process (Watershed Restoration and Protection Strategy Report Template, MPCA). This table includes not only needed actions but a timeline for achieving water quality targets, the reductions needed from both point and nonpoint sources, the governmental units responsible, and interim milestones for achieving the actions. MPCA has developed guidance on what is required in the WRAPS (Watershed Restoration and Protection Strategy Report Template, MPCA).

The Minnesota Board of Soil and Water Resources administers the Clean Water Fund as well, and has developed a detailed grants policy explaining what is required to be eligible to receive Clean Water Fund money (FY 2014 Clean Water Fund Competitive Grants Request for Proposal (RFP); Minnesota Board of Soil and Water Resources, 2014).

M5400177	Minnesota Correctional-Lino Lakes MS4
MS400179	Minnesota Correctional-St Cloud MS4
*	Minnesota Correctional - Stillwater MS4
¥	Minnesota State University – Mankato MS4
MS400036	Minnetonka Beach City MS4
MS400035	Minnetonka City MS4
MS4001.06	Minnetrista City MS4
MS400170	MNDOT Metro District MS4
M5400180	MNDOT Outstate District MS4
MS400261	Montevideo City MS4
MIS400242	Monticello City MS4
MS400274	Morris City MS4
MS400108	Mound City MS4
M5400037	Mounds View City MS4
	Morris City MS4
MS400207	Mpls Community/Technical College MS4
MS400038	New Brighton Clty MS4
MIS400039	New Hope City MS4
MIS400228	New Ulm City MS4 -
MS400040	Newport City M54
*	Nicollet County M54
MS400255	Normandale Community College MS4
MS400260	North Branch City MS4
MIS400205	North Hennepin Community College - M54
MIS4ID	Name

South Metro Mississippi Watershed Final Revised TMDL Decision Document

North Mankato City MS4	North Oaks City M54	North St Paul City MS4	Northfield City MS4	Oak Grove City MS4	Oak Park Heights City M54	Oakdale City MS4	Orono City MS4	Osseo City MS4	Otsego City MS4	Owatonna City M54	Plue Springs City MS4	Plymouth City MS4	Prior Lake City MS4	Prior Lake-Spring Lake WSD MS4	Ramsey City MS4	Ramsey County Public Works MS4	Ramsey-Washington Metro WD MS4	Red Wing City MS4	Redwood Falls City MS4	Rice Creek WD MS4	Richfield City M54	Robbinsdale Clty MS4	Rogers City MS4	Rosemount City M54	Roseville City MS4	
M5400229	M5400109	MS400041	MS400271	MS400110	*	M:S400042	M5400111	MS400043	MS400243	MS400244	MS400044	MS400112	MS400113	MS400189	MS400115	MS400191	MS400190	MS400235	M5400236	M5400193	MS400045	MS400016	÷.	MS400117	MS400047	

South Metro Mississippi Watershed Final Revised TMDL Decision Document

M5400048	Sartell City MS4
MS400118	Sauk Rapids City MS4
MS400153	Sauk Rapids Township MS4
M54ID	Name
*	Sauk River WD MS4
MS400119	Savage City MS4
MS400154	Scott County MS4
MS400120	Shakopee City MS4
MS4001.55	Sherburne County MS4
M5400121	Shoreview City MS4
MS400122	Shorewood City MS4
*	Skyline City MS4
*	South Bend Township MS4
*	South Central College - North Mankato Campus MS4
MS400049	South St Paul City MS4
M\$400196	South Washington WD MS4
MS400050	Spring Lake Park City MS4
MS400156	Spring Lake Township MS4
MS400123	Spring Park City MS4
MS400051	St Anthony Village MS4
÷	St Augusta City M54
MS400124	St Bonifacius City MS4
MS400052	St Cloud City MS4
MS400197	St Cloud State University MS4
MIS400204	St Cloud Technical College - MS4

South Metro Mississippi Watershed Final Revised TMDL Decision Document

61

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×	St Francis City MS4
MS4001.25	St Joseph City MS4
MS400157	St Joseph Township MS4
MS400053	St Louis Park City MS4
MS400246	St Michael City MS4
MS400202	St Paul Community & Technical College - MS4
MN0061263	St Paul Municipal Storm Water
MS400054	St Paul Park City MS4
MS4ID	Name
MS400245	St Peter City MS4
MS400159	Stearns County MS4
MS400259	Stillwater City MS4
MS400055	Sunfish Lake City MS4
MS400056	Tonka Bay City MS4
MS400212	U of M-Twin Cities Campus M54
MS400057	Vadnais Heights City MS4
MS400217	Valley Branch WD MS4
MS400126	Victoria City MS4
MS400232	Waconia City MS4
MS400127	Waite Park City M54
MS400258	Waseca City MS4
MS4001.60	Washington County MS4 ·
MS400161	Watab Township MS4
MS400058	Wayzata City MS4
M5400162	West Lakeland Township MS4
MS400059	West St Paul City MS4

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South Metro Mississippi Watershed Final Revised TMDL Decision Document

MS400060	White Bear Lake City M54	
MS400163	White Bear Township MS4	
MS400061	Willernie City MS4	
M5400272	Willmar City M54	
M54001.28	Woodbury City MS4	
	Woodland City MS4	
₩	Wyoming City MS4	
WI-5050075-2 (31431)	River Falls, City, Wisconsin	
WI-5050075-2 (37192)	University of Wisconsin at River Falls	
WI-S0501.81-1 (52320)	Hudson, Wisconsin	
WI-5050181-1 (52317)	St. Joseph, Town, Wisconsin	

*Minnesota MS4s designated after the 2010 census have not yet been assigned individual MS4 identification **a**tumbers.

South Metro Mississippi Watershed Final Revised TMDL Decision Document

MPCA noted that the CWLA enjoins state agencies to "...use existing regulatory authorities to achieve restoration for point and nonpoint sources of pollution where applicable, and promote the development and use of effective non-regulatory measures to address pollution sources for which regulations are not applicable." (Minn. Stat. § 114D.20, subd. 3). The MPCA will seek to pursue the following policies with state and local agencies:

- Comply with 50-foot buffer required for the shore impact zone of streams classified as protected waters (Minn. Stat. § 103F.201) for agricultural land uses.
- Comply with requirements to buffer highly erodible land within the 300-foot shoreland district, as described in the state shoreland rule.
- Establish a process and timeline to ensure compliance with the requirement for a 16.5foot buffer on agricultural drainage ditches as defined in Minn. Stat. § 103E.021.
- Review the use of excessive soil loss ordinances by counties (described in Minn. Stat. § 103F.415) and the potential benefits of applying soil loss ordinances specifying a maximum rate of "T" (the tolerable rate of soil erosion which the NRCS defines as the rate at which soil can replenish itself) to areas contributing high amounts of sediment to the South Metro Mississippi and tributary watersheds.
- Review the MPCA's authorities on the prohibition of nuisance nonpoint source pollution (Minn. R. 7050.0210, subp. 2).

<u>Other TMDLs</u>: Several other TMDLs have been developed by MPCA and approved by EPA within the South Metro watershed. Section 5.1.2 of the TMDL explains how the existing TMDLs were reviewed and accounted for in the South Metro TMDL. The existing TMDLs reviewed by MPCA have greater reductions than those needed in the South Metro TMDL. MPCA stated that the most conservative allocation applies in terms of permits or other tracking. Several other TMDLs are in development or scheduled for development in the South Metro TMDL watershed. The most important will be the Minnesota River TMDL, which will have the greatest impact on the South Metro watershed. The TMDL is expected to be completed in the near future.

EPA finds that this criterion has been adequately addressed.

9. Monitoring Plan to Track TMDL Effectiveness

EPA's 1991 document, *Guidance for Water Quality-Based Decisions: The TMDL Process* (EPA 440/4-91-001), recommends a monitoring plan to track the effectiveness of a TMDL, particularly when a TMDL involves both point and nonpoint sources, and the WLA is based on an assumption that nonpoint source load reductions will occur. Such a TMDL should provide assurances that nonpoint source controls will achieve expected load reductions and, such TMDL should include a monitoring plan that describes the additional data to be collected to determine if the load reductions provided for in the TMDL are occurring and leading to attainment of water quality standards.

Comment:

Section 7.4 of the TMDL discusses how monitoring will be performed to ascertain attainment of the criteria. Additional discussion of ongoing and future monitoring efforts are contained in the

Sediment Strategy, as well as the Dakota County "Mississippi Makeover" project (Dakota County Soil and Water Conservation District website). MPCA maintains a statewide Watershed Pollutant Load Monitoring Network, which monitors numerous sites in the South Metro watershed. The Minnesota Large Lake Program is run by the Minnesota Department of Natural Resources (MDNR) and monitors Lake Pepin throughout the year for changes in fish and macroinvertebrate populations. The USGS and MDNR operate the Long Term Monitoring sites in Lake Pepin, which monitors water quality, vegetation, macroinvertebrates, and fish in Lake Pepin. The Metropolitan Council Environmental Services (MCES) operates a monitoring network throughout the South Metro watershed, and including portions of the tributary basins (http://metrocouncil.org/Wastewater-Water/Services/Water-Quality-Management/River-Monitoring-Analysis.aspx?source=child). This sampling includes TSS on a semi-monthly basis (approximately once every two weeks). These programs are long-term monitoring programs which are expected to continue for the foreseeable future.

EPA finds that this criterion has been adequately addressed.

10. Implementation

EPA policy encourages Regions to work in partnership with States/Tribes to achieve nonpoint source load allocations established for 303(d)-listed waters impaired by nonpoint sources. Regions may assist States/Tribes in developing implementation plans that include reasonable assurances that nonpoint source LAs established in TMDLs for waters impaired solely or primarily by nonpoint sources will in fact be achieved. In addition, EPA policy recognizes that other relevant watershed management processes may be used in the TMDL process. EPA is not required to and does not approve TMDL implementation plans.

Comment:

Section 7 of the TMDL highlights some of the implementation efforts underway in the South Metro watershed. In addition to the efforts noted in Section 8 of this Decision Document, MPCA discussed several other implementation actions. Another source of sediment is the resuspension of bottom sediments due to wind and wave action. In the Sediment Strategy and the TMDL, MPCA explains that efforts are underway with MDNR, Wisconsin Department of Natural Resources, USACOE, and the US Fish and Wildlife Service to build islands in the mainstem and backwaters of the South Metro watershed. These islands will reduce the open area of the river where wind can churn up the waters and resuspend the sediments. The islands will also provide additional habitat for waterfowl, and allow increased aquatic vegetation, which will also serve to hold sediment in place. Periodic drawdowns of the river/pools will also be performed. These drawdowns expose sediment to the air, allowing it to dry and consolidate. It also facilitates the growth of rooted vegetation.

As part of the Watershed Restoration and Protection Strategy (WRAPS), MPCA monitors major watershed of the state on a rotating basis. Several of the watersheds in the South Metro watershed have been or will be monitored in the near future. Once monitored, MPCA will develop WRAPS reports to address water quality issues in the watershed. Those waters determined to be impaired will have TMDLs developed. The WRAPS and TMDLs will have

more specific implementation information included. Table 10 of the TMDL lists the upcoming monitoring and WRAPS development.

EPA finds that this criterion has been adequately addressed. The EPA reviews but does not approve implementation plans.

11. Public Participation

EPA policy is that there should be full and meaningful public participation in the TMDL development process. The TMDL regulations require that each State/Tribe must subject calculations to establish TMDLs to public review consistent with its own continuing planning process (40 C.F.R. §130.7(c)(1)(ii)). In guidance, EPA has explained that final TMDLs submitted to EPA for review and approval should describe the State's/Tribe's public participation process, including a summary of significant comments and the State's/Tribe's responses to those comments. When EPA establishes a TMDL, EPA regulations require EPA to publish a notice seeking public comment (40 C.F.R. §130.7(d)(2)).

Provision of inadequate public participation may be a basis for disapproving a TMDL. If EPA determines that a State/Tribe has not provided adequate public participation, EPA may defer its approval action until adequate public participation has been provided for, either by the State/Tribe or by EPA.

Comment:

Section 7 of the TMDL explains the public participation process followed by MPCA. The process began in October 2004 when MPCA worked to form a Stakeholder Advisory Committee (Appendix C of the TMDL). The Committee participated in the effort to develop two TMDL work plans, one for water quality assessment and one for watershed analysis.

The Lake Pepin TMDL Science Advisory Panel was established in February 2005 (Appendix C of the TMDL). The Panel worked on the proposal for the South Metro and Lake Pepin modeling effort, as well as providing input to the modeling effort. MPCA also held meetings with several sector-specific groups in 2008, including agriculture, conservation and environmental protection, and municipal wastewater and stermwater.

MPCA also held several meetings with the public. Three technical conferences were held in 2006, 2007, and 2008, and MPCA made presentations at many technical meetings and conferences. The draft TMDL was public noticed from February 27, 2012, to May 29, 2012. Copies of the draft TMDL were made available upon request, in news releases, and on the Internet web site: <u>http://www.pca.state.mn.us/index.php/water/water-types-and-projects-and-staff-contacts.html</u>.

During the public comment period, MPCA received over 400 comment letters. 20 of the comment letters requested a contested case hearing under Minnesota R. 7000.1800. MPCA reviewed the comments, and discussed the comments with the commenters. In October 2015, MPCA finalized the response to comments on the South Metro TMDL. Although there were

over 400 comment letters, MPCA noted that many of these letters were similar in nature, and were compiled into categories by MPCA based upon issue area: A. Urban Stormwater interests; B. Agricultural interests; C. Wastewater; D. Load allocation methodology; E. Reasonable assurance; F. Implementation; and G. General comments. See the "Response to Comments attachment to the South Metro TSS TMDL" for more details. In the response to comments, MPCA identified the numerous changes made to the TMDL document in response to the comments. Significant changes include inclusion of internal loading in the TMDL tables, separating Minnesota and Wisconsin allocations, a summary of more recent research comparing climate effects vs. land use on stream channel erosion and loading, revised land cover data, and revisions to MS4 methodology ultimately replacing the previous 25% across the board reduction with a targeted areal loading. Page 4 of the Response to Comments. As shown in the changes to the TMDL, MPCA reviewed all the comments, and responded appropriately to the comments.

As a result of these changes and the Response to Comments, several of the contested case hearing requests were withdrawn. The remaining contested case hearings were consolidated into three groups, the Minnesota Soybean Growers Association (MSGA), the Lower Minnesota River Watershed District (LMRWD), and Cities of Monticello and St. Joseph (Monticello-St. Joseph petition). A summary of the contested case requests and MPCA responses is below:

MSGA: The issues raised by MSGA were 1) the TMDL failed to account for natural background of TSS loads, and 2) the TMDL failed to account for the components that contribute to turbidity. The MSGA contended that much of the sediment/TSS in the Minnesota River is generated through natural processes, and is not of anthropogenic origin. They commented that the natural background sedimentation rate of 10% was not valid, and did not account for the climate and ecosystems dynamics as required in the CWLA. MPCA responded that while erosion is a natural process, it is MPCA policy to exclude from natural background erosion that is above and beyond natural rates due to human activities. MPCA explained that loss of wetlands, drainage tiles, and ditching are all human activities that have accelerated sedimentation in the watershed. The second issue raised by MSGA was that the TMDL failed to account for how the components of turbidity were not accounted for in the TMDL calculations. MSGA noted that the TMDL did not account for volatile suspended solids (VSS), which are the organic materials (algae, leaf detritus, etc.), and that VSS has a much greater impact on turbidity than the non-volatile suspended solids. MPCA responded that the TMDL addresses TSS as per the SSC, not turbidity, and that the MSGA had submitted a comment during the TMDL public comment period praising the use of the SSC of 32 mg/L of TSS.

<u>LMRWD</u>: The LMRWD raised two issues on the TMDL: 1) the WLA was inflated, resulting in the LA being underinflated, resulting in an ineffectual 25% reduction in TSS loads from MS4s, and 2) the natural background load, while correct, was mis-applied to both field and non-field sources, and should be applied to only to the non-field sources. MPCA revised the TMDL to change the 25% reductions in MS4 TSS loads to a loading rate per acre calculation (Section 5 of this Decision Document). The LMRWD withdrew the contested case request for this issue. The second issue was addressed by MCPA by revising the TMDL to explain the natural background load is attributable to the non-field sources.

Monticello-St. Joseph: The Monticello-St. Joseph petition raised two issues; 1) The TSS concentrations upstream of Lock and dam #1 meet or are less than the SSC, and therefore the 25% MS4 TSS reduction is not needed, and 2) the 25% MS4 TSS reduction is arbitrary and ineffectual. MPCA responded that the two issues were directly addressed in the TMDL revisions. MPCA explained that the Mississippi River upstream of Lock and Dam #1 did not need any further reduction in MS4 load, except for the Lower Crow River, which has an existing TMDL for TSS. The reductions in the Lower Crow River will account for the 20% reduction needed to attain the South Metro TMDL, and therefore no additional reductions were needed (Section 5.1.2 of the TMDL). MPCA also explained that the 25% MS4 reduction has been removed from the TMDL, and the MS4 goal is now the export rate of 154 lbs/acre of TSS (Section 6.1.2 of the TMDL).

As a result of the changes to the TMDL and explanations noted above, the contested case requests were denied by the MPCA (Findings of Fact, Conclusions of Law and Order, MPCA, signed 11/06/2015). EPA has reviewed the comments submitted to MPCA, the Response to Comments, as well as the contested case Findings of Facts, and determined that MPCA has appropriately responded to all comments. As noted by MPCA, numerous changes were made to the TMDL to address comments and concerns raised by commentors, and MPCA explained why further changes were not warranted.

EPA finds that the TMDL document submitted by MPCA satisfies all requirements concerning this eleventh element.

12. Submittal Letter

A submittal letter should be included with the TMDL submittal, and should specify whether the TMDL is being submitted for a *technical review* or *final review and approval*. Each final TMDL submitted to EPA should be accompanied by a submittal letter that explicitly states that the submittal is a final TMDL submitted under Section 303(d) of the Clean Water Act for EPA review and approval. This clearly establishes the State's/Tribe's intent to submit, and EPA's duty to review, the TMDL under the statute. The submittal letter, whether for technical review or final review and approval, should contain such identifying information as the name and location of the waterbody, and the pollutant(s) of concern.

Comment:

The EPA received the final South Metro TSS TMDL document, submittal letter and accompanying documentation from the MPCA on November 16, 2015. The submittal letter explicitly stated that enclosed was the final South Metro Mississippi River TMDL report for total suspended solids, which was being submitted to EPA pursuant to Section 303(d) of the Clean Water Act for EPA review and approval. The letter also contained the name of the watershed as it appears on Minnesota's 303(d) list, and the causes/pollutants of concern. This TMDL was submitted per the requirements under Section 303(d) of the Clean Water Act and 40 CFR 130.

EPA finds that the TMDL document submitted by MPCA satisfies all requirements concerning this twelfth element.

13. Conclusion

After a full and complete review, EPA finds that the TMDLs for the South Metro watershed satisfy all of the elements of an approvable TMDL. This approval addresses 5 TSS TMDLs.

EPA's approval of this TMDL does not extend to those waters that are within Indian Country, as defined in 18 U.S.C. Section 1151. EPA is taking no action to approve or disapprove TMDLs for those waters at this time. EPA, or eligible Indian Tribes, as appropriate, will retain responsibilities under the CWA Section 303(d) for those waters.

Revision: The WLA columns in Table A.2 of Appendix A of the TMDL were switched in the final TMDL submittal. The column noting the daily load actually contained the annual load, and vice-versa. The TMDL has been updated, and the correct tables are contained in Table A.2 of Appendix A of the Decision Document. No other changes have been made to the Decision Document, and this does not affect the original decision.

Appendix A: Wastewater Treatment Facility Waste Load Allocations and Industrial Stormwater Facilities

Name Cannon Falls WWTP CenterPoint Energy - WWTS	Permit	Permit Tributary			WLA	WLA
Cannon Falls WWTP CanterPoint Energy - WWTS	Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
CenterPoint Energy - WWTS	MN0022993	Cannon	Cannon River	07040002	21,900	60,00
LenterPoint cheigy - www.ip	MN0063967	Саппоп	cannon River	07040002	884	2.42
	MN0050491	Cannon	Cannon River	07040002	20,723	56.78
Faribault Foods - Faribault Otverout	MN0030121	Cannon	Cannon River	07040002	289,810	794.00
	MN0046957	Саппол	Cannon River	07040002	4,987	13.66
Genova Withinsous mu	MN0068802	Cannon	Cannon River	07040002	438	1.20
	MN0001317	Саплол	Cannon River	07040002	707	1.94
Hope Creatiery • • • • • • • • • • • • • • • • • • •	MN0001571	Саппоп	Cannon Ríver	07040002	13,505	37,00
Lakeside fuous int Owaronie i wind	MN0031241	Cannon	Cannon River	07040002	28,470	78.00
LONSGARE VV VV IP	MN0024112	Cannon	Cannon River	07040002	5,840	16.00
Meutoro www.rr • • • • • • • • • • • • • • • • • • •	MN0063045	Cannon	Cannon River	07040002	207,229	567.75
	MN0025895	Cannon	Cannon River	07040002	8,760	24.00
Morristown www.r	MN0065668	Cannon	Cannon River	07040002	1,737	4.76
Nerstrand vv vr P	MN0024368	Cannon	Cannon River	07040002	140,890	386.00
	MN0051284	Cannon	Cannon River	07040002	207,320	568.00
	MN0041394	. Cannon	Cannon River	07040002	24,867	68.13
SIML - Оматонна Quarty 	MNG255064	Cannon	Cannon River	07040002	66	0.18
Telamcounc → t →	MN0002500	Cannon	Cannon River	07040002	2,653	7.27
he lurkey store - ranoour	MNG255078	Саппоп	Cannon River	07040002	12,157	33.31
VPBCOR	MN0025208	Cannon	Cannon River	07040002	11,242	30.80
Vaterview v vers	MN0069281	Metroshed	Lower Minnesota River	07020012	95	0,26

South Metro Mississippi Watershed Final Revised TMDL Decision Document

Anchor Block Co - South Plant

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Termit Tributary Majo: Majo	Apex International Manufacturing Inc		Metroshed	Lower Minnesota River	07020012	1,017	2.79
Hermit Tributary Multi- Mumber Tributary Multi- Mumber Multi- Mutary Multi- Multi- Multi- Murt							
Number Watershed Major Watershed HCC-8 (4g/war) (1g/ Immediating Min0053138 Metroshed Lower Minnesora River 07020012 53,651 1,1365	· · ·	Permit	Tributary		··· •	WLA	WLA
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%7 MI0074194 Metroshed Lower Minnesota River 07020012 1,186 M100750034 Metroshed Lower Minnesota River 07020012 4,191 7 M010008324 Metroshed Lower Minnesota River 07020012 884 341 M010008324 Metroshed Lower Minnesota River 07020012 884 341 M0100003226 Metroshed Lower Minnesota River 07020012 82.389 2,17 M010020269 Metroshed Lower Minnesota River 07020012 8,28 2,77 M010020281 Metroshed Lower Minnesota River 07020012 8,78 2,77 M100020382 Metroshed Lower Minnesota River 07020012 1,173 2,07 M100020382 Metroshed Lower Minnesota River 07020012 1,173 2,07 M100203030 Metroshed Lower Minnesota River 07020012 1,173 2,07 M100203030 Metroshed Lower Minnesota River 07020012 1,173 2,07 M100203040<	Cypress Semiconductor Minnesota Inc	MN0056723	Metroshed	Lower Minnesota River	07020012	. 53,051	145.34
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MTP MN002982 Metroshed Lower Minnesota River 07020012 1,739,590 4,7 P MN0030007 Metroshed Lower Minnesota River 07020012 1,577,785 4,3 P MN0030007 Metroshed Lower Minnesota River 07020012 1,577,785 4,3 MN003007 Metroshed Lower Minnesota River 07020012 1,105 7,5920 20 MN0024392 Metroshed Lower Minnesota River 07020012 7,5920 20 1 MN0024392 Metroshed Lower Minnesota River 07020012 37,595 10 MN002431 Metroshed Lower Minnesota River 07020012 37,595 11 MN0054661 Metroshed Lower Minnesota River 07020012 37,595 11 MN0054661 Metroshed Lower Minnesota River 07020012 216,781 55 MN0054661 Metroshed Lower Minnesota River 07020012 216,781 55 MN0055584 Metroshed Lower Minnesota River <t< td=""><td>McLaughlin Gormley King Co</td><td>MN0058033</td><td>Metroshed</td><td>Lower Minnesota River</td><td>07020012</td><td>290</td><td>0.79</td></t<>	McLaughlin Gormley King Co	MN0058033	Metroshed	Lower Minnesota River	07020012	290	0.79
P MN003007 Metroshed Lower Minnesota River 07020012 1,572,785 4,36 MN0250097 Metroshed Lower Minnesota River 07020012 1,105 2 MN02750097 Metroshed Lower Minnesota River 07020012 7,5920 26 MN0024392 Metroshed Lower Minnesota River 07020012 75,920 27 MN0024392 Metroshed Lower Minnesota River 07020012 37,595 10 MN005461 Metroshed Lower Minnesota River 07020012 37,595 10 MN00546461 Metroshed Lower Minnesota River 07020012 5,791 11 MN0054747 Metroshed Lower Minnesota River 07020012 216,781 55 MN0054747 Metroshed Lower Minnesota River 07020012 216,781 55 MN0055384 Metroshed Lower Minnesota River 07020012 1,503 16 MN0055384 Metroshed Lower Minnesota River 07020012 1,503 17,503	Met Council - Blue Lake WWITP	MN0029882	Metroshed	Lower Minnesota River	07020012	1,739,590	4,766.00
MNG25007 Metroshed Lower Minnesota River 07020012 1,105 75,920 26 MN0020150 Metroshed Lower Minnesota River 07020012 37,595 10 MN0024332 Metroshed Lower Minnesota River 07020012 37,595 10 MN0024332 Metroshed Lower Minnesota River 07020012 37,595 10 MN006461 Metroshed Lower Minnesota River 07020012 5,791 1 MN006461 Metroshed Lower Minnesota River 07020012 5,791 1 MN006461 Metroshed Lower Minnesota River 07020012 216,781 55 MN0031917 Metroshed Lower Minnesota River 07020012 216,781 55 MN0063584 Metroshed Lower Minnesota River 07020012 1,503 1,503 MN0063584 Metroshed Lower Minnesota River 07020012 1,503 1,503 MN006355072 Metroshed Lower Minnesota River 07020012 1,5894 5 <td< td=""><td>Met Council - Seneca WWTP</td><td>MN0030007</td><td>Metroshed</td><td>Lower Minnesota River</td><td>07020012</td><td>1,572,785</td><td>4,309.00</td></td<>	Met Council - Seneca WWTP	MN0030007	Metroshed	Lower Minnesota River	07020012	1,572,785	4,309.00
WTP MN0020150 Metroshed Lower Minnesota River 07020012 75,920 20 WTP MN0024392 Metroshed Lower Minnesota River 07020012 37,595 10 MN006101 Metroshed Lower Minnesota River 07020012 5,526 1 MN0064661 Metroshed Lower Minnesota River 07020012 5,791 1 MN0054661 Metroshed Lower Minnesota River 07020012 216,781 55 MN0054661 Metroshed Lower Minnesota River 07020012 216,781 55 MN0054747 Metroshed Lower Minnesota River 07020012 216,781 55 MN005384 Metroshed Lower Minnesota River 07020012 1,503 1,503 MN0063584 Metroshed Lower Minnesota River 07020012 2,934 5,934 MN0063584 Metroshed Lower Minnesota River 07020012 1,503 1,503 MN0063584 Metroshed Lower Minnesota River 07020012 1,584 5,834 <	Micron Molding Inc	MNG250097	Metroshed	Lower Minnesota River	07020012	1,105	3.03
WTP MN0024392 Metroshed Lower Minnesota River 07020012 37,595 10 MN0060101 Metroshed Lower Minnesota River 07020012 5,791 1 MN0064651 Metroshed Lower Minnesota River 07020012 5,791 1 MN0054747 Metroshed Lower Minnesota River 07020012 246,781 55 NN0054747 Metroshed Lower Minnesota River 07020012 246,781 55 MN0054747 Metroshed Lower Minnesota River 07020012 246,781 55 MN0054747 Metroshed Lower Minnesota River 07020012 246,781 55 Ioomington MN005384 Metroshed Lower Minnesota River 07020012 1,503 MN0063584 Metroshed Lower Minnesota River 07020012 2,078 5,078 MN0063584 Metroshed Lower Minnesota River 07020012 1,503 2,078 MN0255005 Metroshed Lower Minnesota River 07020012 1,503 1,503 M	New Prague WWTP	MN0020150	Metroshed	Lower Minnesota River	07020012	75,920	208.00
MN0060101 Metroshed Lower Minnesota River 07020012 5,526 1 MN0054661 Metroshed Lower Minnesota River 07020012 5,791 1 MN0054661 Metroshed Lower Minnesota River 07020012 5,781 55 MN0054747 Metroshed Lower Minnesota River 07020012 216,781 55 MN0054747 Metroshed Lower Minnesota River 07020012 216,781 55 MN0054747 Metroshed Lower Minnesota River 07020012 216,781 55 MN0053584 Metroshed Lower Minnesota River 07020012 1,503 5,078 MN00555072 Metroshed Lower Minnesota River 07020012 19,894 5 MN6255005 Metroshed Lower Minnesota River 07020012 19,894 5 MN0200876 Metroshed Lower Minnesota River 07020012 19,894 5 MN0200876 Metroshed Lower Minnesota River 07020012 19,894 7	Norwood Young America WWTP	MN0024392	Metroshed	Lower Minnesota River	07020012	37,595	103.00
MN0064661 Metroshed Lower Minnesota River 07020012 5,791 1 MN0031917 Metroshed Lower Minnesota River 07020012 216,781 55 MN0031917 Metroshed Lower Minnesota River 07020012 216,781 55 MN0031917 Metroshed Lower Minnesota River 07020012 215,781 55 MN0030864 Metroshed Lower Minnesota River 07020012 1,503 5,078 MN0033584 Metroshed Lower Minnesota River 07020012 1,503 5,078 MN0255072 Metroshed Lower Minnesota River 07020012 19,894 5,078 MN62550055 Metroshed Lower Minnesota River 07020012 12,834 5,815 1,53 Plant MN0000876 Metroshed Lower Minnesota River 07020012 558,815 1,53	Pepsi Bottling Group	MN0060101	Metroshed	Lower Minnesota River	07020012	5,526	15.14
MN0031917 Metroshed Lower Minnesota River 07020012 216,781 55 le MN0054747 Metroshed Lower Minnesota River 07020012 619 55 loomington MN0053584 Metroshed Lower Minnesota River 07020012 1,503 55 MN0053584 Metroshed Lower Minnesota River 07020012 2,078 5 MN0053584 Metroshed Lower Minnesota River 07020012 2,078 5 MN0525072 Metroshed Lower Minnesota River 07020012 19,894 5 MN6255005 Metroshed Lower Minnesota River 07020012 12,7 127 MN0000876 Metroshed Lower Minnesota River 07020012 558,815 1,53	Polar Semiconductor Inc	MN0064661	Metroshed	Lower Minnesota River	07020012	5,791	15.87
le MN0054747 Metroshed Lower Minnesota River 07020012 619 619 loomington MN0030864 Metroshed Lower Minnesota River 07020012 1,503 1,503 MN0033584 Metroshed Lower Minnesota River 07020012 1,503 1,503 MN0053584 Metroshed Lower Minnesota River 07020012 19,894 5 MNG255072 Metroshed Lower Minnesota River 07020012 19,894 5 MNG2550055 Metroshed Lower Minnesota River 07020012 127 127 KPlant MN0000876 Metroshed Lower Minnesota River 07020012 558,815 1,53	Rahr Malting Co	MN0031917	Metroshed	Lower Minnesota River	07020012	216,781	593.92
Ioomington MN0030864 Metroshed Lower Minnesota River 07020012 1,503 1,503 MN0063584 Metroshed Lower Minnesota River 07020012 2,078 5,078 MN0255072 Metroshed Lower Minnesota River 07020012 19,894 5 MN6255072 Metroshed Lower Minnesota River 07020012 19,894 5 MN6255005 Metroshed Lower Minnesota River 07020012 127 127 Plant MN0000876 Metroshed Lower Minnesota River 07020012 558,815 1,53	Rosemount Inc - Eden Prairie	MN0054747	Metroshed	Lower Minnesota River	07020012	619	1.70
MN0063584 Metroshed Lower Minnesota River 07020012 2,078 MNG255072 Metroshed Lower Minnesota River 07020012 19,894 5 MNG255005 Metroshed Lower Minnesota River 07020012 127 127 MN000876 Metroshed Lower Minnesota River 07020012 558,815 1,53	Seagate Technology LL.C - Bloomington	MN0030864	Metroshed	Lower Minnesota River	07020012	1,503	4,12
MNG255072 Metroshed Lower Minnesota River 07020012 19,894 MNG255005 Metroshed Lower Minnesota River 07020012 127 MN0000876 Metroshed Lower Minnesota River 07020012 558,815 1,5	Superior Minerals Co	MN0063584	Metroshed	Lower Minnesota River	07020012	2,078	5,69
MNG250005 Metroshed Lower Minnesota River 07020012 127 NN000876 Metroshed Lower Minnesota River 07020012 558,815 1,55	Thermotech Co	MNG255072	Metroshed	Lower Minnesota River	07020012	19,894	54.50
MN0000876 Metroshed Lower Minnesota River 07020012 558,815	United Sugars Corp Chaska	MNG250005	Metroshed	Lower Minnesota River	07020012	127	0.35
	Xcel - Black Dog Generating Plant	MN0000876	Metroshed	Lower Minnesota River	07020012	558,815	1,531.00

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28

South Metro Mississippi Watershed Final Revised TMDL Decision Document

in a straight the source of the second straight the second straigh	MNG255071	Metroshed	Mississippi River - Lake Pepin	07040001	13,263	36.34
Nettips Containe Formuly	MN0045845	Metroshed	Mississippi River - Lake Pepin	07040001	1,184,060	3,244.00
Met Council - Euriphie www.c	MN0025101	Metroshed	Mississippi River - Lake Pepin	07040001	2,227	6.10
verificities www. 3M Cottage Grove Center	MN0001449	Metroshed	Mississippi River - Twin Cities	07010206	198,925	545.00
	borrailt	Trihutarv			WLA	WLA
:::	- Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
Name rragiostrostin HP Brown & Bigelow Bidg	MNG255045	Metroshed	Mississippi River - Twin Cities	07010206	221	0.61
	MNG250002	Metroshed	Mississippi River - Twin Cities	07010206	31,035	85.03
Adul OH III. A serve set inductries larson Oual IV	MN0030473	Metroshed	Mississippi River - Twin Cities	07010206	281,831	772,14
Agglegate intustries caracter vour part	MN0001309	Metroshed	Mississippi River - Twin Cities	07010206	828,915	2,271.00
Aggregate moustored activities	MN0066524	Metroshed	Mississippi River - Twin Cities	07010206	124	0.34
Aveua corp BAF Systems/River Road Industrial Center	MNG255087	Metroshed	Mississippi River - Twin Cities	07010206	8,594	23,55
boomerand laboratories	MN0066508	Metroshed	Mississippi River - Twin Citles	07010206	442	1.21
Calco of Minimum Single	MIN0059960	Metroshed	Mississippi River - Twin Citles	07010206	1,824	5.00
Contrain Kante Frinds Inc	MN0059765	Metroshed	Mississippi River - Twin Cities	07010206	249	0.68
Captaint for a GWTF	MN0063126	Metroshed	Mississippi River - Twin Citles	07010206	663	1.82
cr. Industrias Inc Pine Bend Terminal	MN0069418	Metroshed	Mississippi River - Twin Cities	07010206	840	2.30
Cranverteem /Flectric Machinery Co	MN0054771	Metroshed	Mississippi River - Twin Cities	07010206	774	2.12
Covente Hennephi Finerey Resource Co LP	MN0057525	Metroshed	Mississippi River - Twin Cities	07010206	8,276	22.67
covenue removements and by	MN0069957	Metroshed	Mississippi River - Twin Cities	07010206	29,426	80.62
Committee Power Generation Inc	MNG255029	Metroshed	Mississippi River - Twin Cities	07010206	1,105	3,03
currented Minnesota LEC - Minneapolis	MNG250107	Metroshed	Mississippi River – Twin Citles	07010206	3,095	8,48
- Evoletor WTP	MN0041.769	Metroshed	Mississippi River - Twin Cities	0701.0206	653	1.79
Ether Hills Resources Pine Bend LLC	MN0000418	Metroshed	Mississippi River - Twin Cities	07010206	224,110	614,00
Eormor Naval Industrial Reserve Ordinance Plant	MNG790159	Metroshed	Mississippi River - Twin Citles	07010206	63,661	174,41
Further tooka Park Filtration WTP	MN0043664	Metroshed	Mississippi River - Twin Cities	07010206	2,081	5.70
	MN0002119	Metroshed	Mlssissippi River - Twin Cities	07010206	16,578	45.42
	MN0062031	Metroshed	Mississippi River - Twin Citles	07010206	1,326	3.63
Galilei Flaza Gaviidae Common	MNG255074	Metroshed	Mississippi River - Twin Cities	07010206	50,619	138.68

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South Metro Mississippi Watershed Final Revised TMDL Decision Document

GE Osmonics Inc	MN0059013	Metroshed	Mississippi River - Twin Cities	07010206	9,859	27.01
General Mills Inc - E Hennepin	MN0056022	Metroshed	Mississippi River - Twin Citles	07010206	38,196	104.65
HB Fuller Co - Willow Lake	MN0051811	Metroshed	Mississippi River - Twin Citles	07010206	66,313	181,68
Hennepin County Energy Center	MN0057509	Metroshed	Mississippi River - Twin Cities	07010206	3,448	9,45
Hiawatha Metalcraft Inc	MNG250061	Metroshed	Mississippi River - Twin Cities	07010206	18,126	49.66
Honeywell Inc - Aerospace - Mpis	MN0042641	Metroshed	Mississippi River - Twin Cities	07010206	154,731	423,92
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:	Permit	Tributary			WLA	WLA
Name	Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
Honeywell International Inc	MNG255088	Metroshed	Mississippi River - Twin Cities	07010206	22,989	62.98
Honeywell-Plymouth Operations	MN0063266	Metroshed	Mississippi River - Twin Cities	07010206	6,366	17.44
Hutchinson Technology Inc - Plymouth	MN0066699	Metroshed	Mississippi River - Twin Cities	07010206	177	0.48
International Market Square	MNG255061	Metroshed	Mississippi River - Twin Cities	07010206	133	0.36
International Paper - Fridley	MNG255038	Metroshed	Mississippi River - Twin Cities	07010206	93	0.25
Kwong Fung Foods Inc	- MN0062723	Metroshed	Mississippi River - Twin Citles	07010206	543	1.49
Laketown Community WWTP	MN0054399	Metroshed	Mississippi River - Twin Cities	07010206	256	0.70
LSP Power - Cottage Grove Power Plant	MN0062821	Metroshed	Mississippi River - Twin Cities	07010206	35,367	96.90
Maple Hill Estates	MN0031127	Metroshed	Mississippi River - Twin Citles	07010206	1,241	3,40
Met Council - Eagles Point WWTP	MN0029904	Metroshed	Mississippi River - Twin Cities	07010206	492,750	1,350.00
Met Council - Hastings WWTP	MN0029955	Metroshed	Mississippi River - Twin Cities	07010206	111,325	305.00
Met Council - Metropolitan WWTP	MN0029815	Metroshed	Mississippi River - Twin Cities	07010206	12,996,920	35,608.00
Metal-Matic Inc	MNG255065	Metroshed	Mississippi River - Twin Cities	07010206	1,326	3.63
M Foods Dairy LLC	MNG255067	Metroshed	Mississippi River - Twin Cities	07010206	23,873	65.40
Micom Corp	MNG255025	Metroshed	Mississippi River - Twin Cities	07010206	712	1.95
Minneapolis Water Works Fridley	MN0003247	Metroshed	Mississippi River - Twin Cities	07010206	54,020	148.00
Minutech Corp	MN0063541	Metroshed	Mississippi River - Twin Cities	07010206	5,347	14.65
New Brighton WTP - Wells 10 & 11	MNG640068	Metroshed	Mississippi River - Twin Cities	07010206	1,243	3.41
Niffisk-Advance Inc	MIN0066648	Metroshed	Mississippi River - Twin Cities	07010206	6,366	17.44
Northern Iron of St Paul LLC	MN0059277	Metroshed	Mississippi River - Twin Cities	07010206	1,105	3.03
NuStar - Roseville Terminal	MN0050318	Metroshed	Mississippi River - Twin Citles	07010206	265	0.73
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30

South Metro Mississippi Waterahed Final Revised TMDL Decision Document

anno na Bacharchin - Walls Farati Penter	MNG250103	Metroshed	Mississippi River - Twin Cities	07010206	53,051	145.34
Outside Boofing & Achhalt H C Muls	MN0048810	Metroshed	Mississippi River - Twin Cities	07010206	104	0.28
	MNG255066	Metroshed	Mississippi River - Twin Cities	07010206	884	2.42
Pearson Convoy co a distanta pusition Providents Collipe	MNG250048	Metroshed	Mississippi River - Twin Cities	07010206	2,608	7.15
KODINSON NUDBEL FLORIDOS NO TIV	MN0069051	Metroshed	Mississippi River - Twin Citles	07010206	85	0.23
Satht Grow rouge mu raint band bark Bafining Coll C	MN0000256	Metroshed	Mississippi River - Twin Citles	07010206	62,780	172.00
Darm Fault and Neuring Colors	MNG640081	Metroshed	Mississippi River - Twin Cities	07010206	332	1.6.0
Schuldory with Stituuis Park GWP - Reilly Tar Site	MN0045489	Metroshed	Mississippi River - Twin Cities	07010206	6,676	18,29
		-		-		
	Permit	Tributary			MLA .	WLA
	Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
TVV Area Structure 43	MNG640084	Metroshed	Mississippi River - Twin Cities	07010206	12,019	32.93
st coort on the st Paul Dianaar Prass - Ridder Circle	MN0054577	Metroshed	Mississippi River - Twin Cities	07010206	63 63	0.23
strautrusten room meet voor	MN0045829	Metroshed	Mississippi River - Twin Cities	07010206	186,506	510,98
otradine Millade Flats	MNG790176	Metroshed	Mississippi River - Twin Cities	07010206	12,732	34,58
	MN0067661	Metroshed	Mississippi River - Twin Cities	07010206	23,255	387.58
	MNG255036	Metroshed	Mississippi River - Twin Cities	07010206	80 80 80	0.24
TELES TELES TELES / 101 Decien-Ruild Project	MNG790175	Metroshed	Mississippi River - Twin Cities	07010206	101,680	278.58
TH EST Hackinge Bridge	MNG790173	Metroshed	Mississippi River - Twin Cities	07010206	19,098	52.32
TELOT REQUISE CONSC DESA Chil Equinosing Rida 156	MN0058882	Metroshed	Mississippi River - Twin Cities	07010206	28,515	78.12
U OLIVI - CIVILFIBUREELING ONG 200 11 of M. Minnecota Library Access Center	MN0063436	Metroshed	Mississippi River - Twin Citles	07010206	928	2.54
United//Children's Hospitals	MN0002968	Metroshed	Mississippi River - Twin Cities	07010206	746	2.04
UILCOF LOOK & Dam 7 WTP	MNG640113	Metroshed	Mississippi River - Twin Cities	07010206	124	0,34
	MNG250093	Metroshed	Mississippi River - Twin Citles	07010206	4,686	12.84
VICTO THE CANADO	MN0065501	Metroshed	Mississippi River - Twin Citles	07010206	456	1.25
Wistoff Lars Cours A Bork-Tenn Co	MN0048984	Metroshed	Mississippi River - Twin Cities	07010206	44,430	121.73
Watuon colpany and a service and a	MNG640096	Metroshed	Mississippi River - Twin Cities	07010206	1,533	4.20
vrayzata vy transmusta so s vrot bivarsida Generatine Plant	MN0000892	Metroshed	Mississippi River - Twin Cities	07010206	165,728	454.05
ved Energy - Combined Ovcle Plant	MN0000884	Metroshed	Mississippi River - Twin Cities	07010206	2,227	6.10
Acel Energy Commune of the Substation	MN0003301	Metroshed	Mississippi River - Twin Cities	07010206	33,157	90,84

Blue Earth WWTP	MN0020532	Minnesota	Blue Earth River	07020009	40,515	111.00
Buffalo Lake Energy LLC	MN0068063	Minnesota	Blue Earth River	07020009	21,097	57.80
Darling International Inc - Blue Earth	MN0002313	Minnesota	Blue Earth River	07020009	2,215	79.80
Fairmont Foods of Minnesota Inc	MN0001996	Minnesota	Blue Earth River	07020009	2,690	7.37
Fairmont WTP	MN0045527	Minnesota	Blue Earth River	07020009	124	0,34
Fairmont WWTP	MN0030112	Minnesota	Blue Earth River	07020009	161,695	443.00
Great River Energy Lakefield	MN0067709	Minnesota	Blue Earth River	07020009	373	1.02
Interstate Power - Fox Lake Station	MN0000957	Minnesota	Blue Earth River	07020009	47,249	129.45
Seneca Foods Corp - Blue Earth	MN0001287	Minnesota	Blue Earth River	07020009	15,418	42.24
Trimont WWTP	MN0022071	Minnesota	Blue Earth River	07020009	7,665	21.00

Name	Permit Number	Tributary Watershed	Major Watershed	HUC-8	WLA (kg/year)	WLA (kg/day)
Welcome WWTP	MN0021296	Minnesota	Blue Earth River	07020009	10,768	29.50
Winnebago WWTP	MN0025267	Minnesota	Blue Earth River	07020009	70,445	193.00
Benson WWTP	MN0020036	Minnesota	Chippewa River	07020005	32,368	88.68
Chippewa Valley Ethanol Co	MN0062898	Minnesota	Chippewa River	07020005	4,476	12.26
Kerkhoven WWTP	MN0020583	Minnesota	Chippewa River	07020005	6,205	17.00
Montevideo WWTP	MN0020133	Minnesota	Chippewa River	07020005	102,200	280.00
Starbuck WWTP	MN0021415	Minnesota	Chippewa River	07020005	14,491	39.70
August Schell Brewing Co	MN0022284	Minnesota	Cottonwood River	07020008	1,451	3.97
New Ulm WWTP	MN0030066	Minnesota	Cottonwood River	07020008	280,320	768.00
Springfield WWTP	MN0024953	Minnesota	Cottonwood River	07020008	32,339	88.60
Wabasso WWTP	MN0025151	Minnesota	Cottonwood River	07020008	4,672	12.80
Walnut Grove WWTP	MN0021776	Minnesota	Cattonwood River	07020008	8,395	23.00
Amboy WWTP	MN0022624	Minnesota	Le Sueur River	07020011	11,863	32.50
New Richland WWTP	. MN0021032	Minnesota	Le Sueur River	07020011	24.820	68.00
St Clair WWTP	MN0024716	Minnesota	Le Sueur River	07020011	8,760	24.00
Waldorf WWTP	MN0021849	Minnesota	Le Sueur River	07020011	4,015	11.00
Waseca WWTP	MN0020796	Minnesota	Le Sueur River	07020011	144,905	397.00

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South Metro Mississippi Watershed Final Revised TMDL Decision Document

		· · · · · · · · · · · · · · · · · · ·	Lower Minnesota River	07020012	33,215	91.00
Arlington WWTP	MN0020834	Minnesota	Lower Minnesota River	07020012	52,604	144.12
Dairy Farmers of America - Winthrop	MN0003671	Minnesota	Lower Minnesota River	07020012	3,942	10.80
Lafayette WWTP	MN0023876	Minnesota	Lower Minnesota River	07020012	34,164	93.60
Le Center WWTP	MN0023931	: Minnesota		07020012	8,286	22.70
Le Sueur Cheese Co	MN0060216	Minnesota	Lower Minnesota River	07020012	22,776	62.40
MG Waldbaum Co - Gaylord	MN0060798	Minnesota	Lower Minnesota River Lower Minnesota River	07020012	40,077	109.80
Montgomery WWTP	MN0024210	Minnesota		07020012	76,285	209.00
MRVPUC WWTP	MN0068195	Minnesota	Lower Minnesota River	07020012	1,409	3.86
New Prague WTP	MNG640117	Minnesota	Lower Minnesota River	07020012	8,286	22.70
Seneca Foods Corp - Arlington	MN0000264	Minnesota	Lower Minnesota River	07020012	20,696	56.70
Seneca Foods Corp - Montgomery	MN0001279	Minnesota	Lower Minnesota River	07020012	159	0.44
	MNG255043	Minnesota	Lower Minnesota River	07020012		
Winco Inc		· ·	· · · · · · · · · · · · · · · · · · ·		WLA	WLA
	Permit	Tributary	Major Watershed	HUC-8	(kg/year)	(kg/day)
Name	Number	Watershed	Minnesota River - Mankato	07020007	5,305	14,53
ADM - Mankato	MN0061514	Minnesota	Minnesota River - Mankato	07020007	157,287	430.92
CHS Oliseed Processing - Mankato	MN0001228	Minnesota	Minnesota River - Mankato	07020007	3,103	8.50
Comfrey WWTP	MN0021687	Minnesota		07020007	84	0.23
Courtland WTP	MNG640025	Minnesota	Minnesota River - Mankato	07020007	7,639	20.93
Firmenich Inc	MNG255006	Minnesota	Minnesota River - Mankato	07020007	6,631	18.17
Hard Rock Quatries inc	MN0067237	Minnesota	Minnesota River - Mankato	07020007	211	0.58
	MN0064408	Minnesota	Minnesota River - Mankato	07020007	24,455	67.00
Hiniker Co	MN0055981	Minnesota	Minnesota River - Mankato		466,105	1,277.00
Lake Crystal WWTP	MN0030171	Minnesota	Minnesota River - Mankato	07020007	14,856	40.70
Mankato WWTP	MN0020443	Minnesota	Minnesota River - Mankato	07020007	343,475	1,249.05
Morgan WWTP	MN0061638	Minnesota	Minnesota River - Mankato	07020007		11.36
New Ulm Quartzite Quarries Inc	MN0062154	Minnesota	Minnesota River - Mankato	07020007	4,145	40.88
Northern Con-Agg LLP - Frohrip Kaolin Mine	MN0059331	Minnesota	Minnesota River - Mankato	07020007	14,920	
Northern Con-Agg LLP - Redwood Falls	MN0053331	and the second second second	Minnesota River - Mankato	07020007	5,371	14.72
POET Blorefining - Lake Crystal			Minnesota River - Mankato	07020007	270	0.74
Saint George District Sewer System	MN0064785			· · · · · · · ·		

Saint Peter WWTP	MN0022535	Minnesota	Minnesota River - Mankato	07020007	165,710	454.00
Unimin Corp - Kasota Plant	MN0053082	Minnesota	Minnesota River - Mankato	07020007	103,614	1,892.50
Unimin Corp - Ottawa Plant	MN0001716	Minnesota	Minnesota River - Mankato	07020007	165,783	3,406.50
Wis-Pak of Mankato Inc	MN0063029	Minnesota	Minnesota River - Mankato	07020007	10,776	29.52
Xcel - Wilmarth Generating Plant	MN000014	Minnesota	Minnesota River - Mankato	07020007	5,749	15.75
Clara City WWTP	MN0023035	Minnesota	Minnesota River - Yellow Medicine River	07020004	19,053	52.20
Delhi WWTP	MN0067008	Minnesota	Minnesotà River - Yellow Medicine River	07020004	595	1.63
Granite Falls Fnergy LLC	MN0066800	Minnesota	Minnesota River - Yellow Medicine River	07020004	5,471	14,99
Granite Falls WWTP	MN0021211	Minnesota	Minnesota River - Yellow Medicine River	07020004	33,215	91.00
Maynard WWTP	MN0056588	Minnesota	Minnesota River - Yellow Medicine River	07020004	6,351	17.40
Olivia WWTP	MN0020907	Minnesota	Minnesota River - Yellow Medicine River	07020004	40,552	111.10
Prinsburg WWTP	MN0063932	Minnesota	Minnesota River - Yellow Medicine River	07020004	2,256	6.18
Renville WWTP	MN0020737	Minnesota	Minnesota River - Yellow Medicine River	07020004	35,369	96,90
Sacred Heart WWTP	MN0024708	Minnesota	Minnesota River - Yellow Medicine River	07020004	9,808	26.87
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Name	Number	Watershed	Major Watershed	RIIC-8	WLA (babiose)	WLA WLA
Southern Minnesota Beet Sugar - Repville	MN0040665	Minnesota	Minnesota River - Yellow Medicine River	07020004	57,019	500.00
Xcel - Minnesota Valley Plant	MN0000006	Minnesota	Minnesota River - Yellow Medicine River	07020004	43,070	118.00
ADM Corn Processing - Marshail	MN0057037	Minnesota	Redwood River	07020006	109,417	299.77
Marshall WWIP	MN0022179	Minnesota	Redwood River	07020006	186,150	510.00
Delft Sanitary District WWTP	MN0066541.	Minnesota	Watonwan River	07020010	237	0.65
La Salle WWTP	MN0067458	Minnesota	Watonwan River	07020010	621	1.70
Lewisville WTP	MN0043958	Minnesota	Watonwan River	07020010	705	1.93
Madelia WWTP	MN0024040	Minnesota	Watonwan River	07020010	54,385	149.00
Milk Specialties Co (MSC)	MN0066036	Minnesota	Watonwan River	07020010	2,984	8.18
POET Biorefining - Ethanol 2000 LLP	MN00631.18	Minnesota	Watonwan River	07020010	5,968	16.35
Saint James WWTP	MN0024759	Minnesota	Watonwan River	07020010	122,640	336.00
Truman WTP	MNG640129	Minnesota	Watonwan River	07020010	622	1.70
Truman WWTP	MN0021652	Minnesota	Watonwan River	07020010	32,485	89.00
South Metro Mississippi Watershed	34					

Federal Minor Tributaries Mississippi River - Lake Pepin Late Uty WVTP Minor Minor Mississippi River - Lake Pepin Late Uty WVTP Minor Minor Mississippi River - Lake Pepin Additionagi VewTP Minor Minor Mississippi River - Lake Pepin Xeal Energy - Prainte Island Nuclear Minor Mississippi River - Lake Pepin Additionagi (peat Inc Cronwell Minor Mississippi River - Lake Pepin Additionagi (peat Inc Cronwell Minor Mississippi River - Lake Pepin Additionagi (peat Inc Cronwell Minor Mississippi River - Lake Pepin Additionagi (peat Inc Cronwell Minor Tributaries Mississippi River - Lake Pepin Additionagi (peat Inc Cronwell Minor Tributaries Mississippi River - Lake Pepin Additionagi (peat Inc Cronwell Minor Tributaries Mississippi River - Lake Pepin Additionagi (peat Inc Cronwell Minor Tributaries Mississippi River - Lake Pepin Additionagi (peat River Inc Lake Pepin Minor Tributaries Mississippi River - Lake Pepin Additionagi (peat River Inc Cronwell Minor Tributaries Mississispi	ativa . Rad Wing	MNG250009	Minor Tributaries	Mississippi River - Lake Pepin	07040001	6,189	16.96
MIN0020664 Minor Tributaries Mississipal R MN0024571 Minor Tributaries Mississipal R MN0023065 St. Croix Kettle River MN0023701 St. Croix Lower St. Cr MN0023908 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0024372 St. Croix Lower St. Cr MN002433 Upper Mississippi Crower St. Cr MN002444 Upper Mississippi Crower St. Cr MN0002438 Uppe	contarial-Monul Powertrain Systems	MN0001147	Minor Tributaries	Mississippi River - Lake Pepin	07040001	11,388	31.20
MIN0024571 Minor Tributaries Mississipal R MN00035662 St. Croix Kettle River MN00023701 St. Croix Kettle River MN00023701 St. Croix Kettle River MN00023701 St. Croix Kettle River MN00023703 St. Croix Lower St. Cr MN0055808 St. Croix Lower St. Cr MN00503365 St. Croix Lower St. Cr MN00503303 St. Croix Lower St. Cr MN00503303 St. Croix Lower St. Cr MN00503303 St. Croix Lower St. Cr MN00523303 St. Croix Lower St. Cr MN00523303 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0022339 St. Croix Lower St. Cr MN0022399 St. Croix Lower St. Cr MN0022399 St. Croix Lower St. Cr MN0022399 St. Croix Lower St. Cr MN002239 St. Croix		MN0020664	Minor Tributaries	Mississippi River - Lake Pepin	07040001	62,926	172.40
MN0004006 Minor Tributaries Mississipal R MN0055662 St. Croix Kettle River MN0023701 St. Croix Kettle River MN00035808 St. Croix Kettle River MN0055808 St. Croix Kettle River MN0050636 St. Croix Lower St. Croix MN0050130 St. Croix Lower St. Croix MN0050130 St. Croix Lower St. Croix MN0050130 St. Croix Lower St. Croix MN0053372 St. Croix Lower St. Croix MN0054372 St. Croix Lower St. Croix MN0054330 St. Croix Lower St. Croix MN0024350 St. Croix Lower St. Croix MN002438 St. Croix Lower St. Croix MN002438 St. Croix Lower St. Croix MN002438 Upper Mississippi Crow Wing F MN002438	Lake Uty www.r	MN0024571	Minor Tributaries	Mississippi River - Lake Pepin	07040001	165,710	454.00
MN00025662 St. Croix Kettle River MN0023701 St. Croix Kettle River MN0001724 St. Croix Kettle River MN0055808 St. Croix Lower St. Cr MN0055808 St. Croix Lower St. Cr MN0050636 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0023998 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0022799 Upper Mississippi Lower St. Cr MN00222799 Upper Mississippi Crow Wing F MN0024244 Upper Mississippi Crow Wing F MN0024238 Upper Mississippi Crow	Neu Vung vy vy tr Vool Enormy - Drainia Island Nurchair	MN0004006	Minor Tributaries	Mississippi River - Lake Pepin	07040001	426,422	1,168.28
MIN0023701 St. Croix Kettle River MIN0001724 St. Croix Lower St. Cr MIN00590156 St. Croix Lower St. Cr MIN0050636 St. Croix Lower St. Cr MIN0050130 St. Croix Lower St. Cr MIN0024350 St. Croix Lower St. Cr MIN0024380 Upper Mississippi Crow Wing F MIN0024244 Upper Mississippi Crow Wing F MIN0024238 Upper Mississippi Crow Wing F MIN0024234 Upper Mississippi Crow Wing F MIN0024038 Upper Mississippi Crow Wing F MIN0220134 Upper Mississippi Crow Wing F MIN0220134 Upper Mississippi Crow Wing F	Atel citer By - Them as some reaction Atelia and aneat Inc - (romwell	MN0055662	St. Croix	Kettle River	0002020	178,217	488.27
MN0001724 St. Croix Lower St. Cr MN0055808 St. Croix Lower St. Cr MN0055808 St. Croix Lower St. Cr MN0050636 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0054372 St. Croix Lower St. Cr MN0054372 St. Croix Lower St. Cr MN0054372 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0022739 Upper Mississippi Crow Wing F MN0022739 Upper Mississippi Crow Wing F MN00224244 Upper Mississippi Crow Wing F MN00224288 Upper Mississippi Crow Wing F MN0024234 Upper Mississippi Crow Wing F MN0024038 Upper Mississippi Crow Wing F MN07250004		MN0023701	St. Croix	Kettle River	07030003	28,105	77.00
MNG790156St. CroixLower St. CrMN0055808St. CroixLower St. CrMN0050356St. CroixLower St. CrMN0054372St. CroixLower St. CrMN0054372St. CroixLower St. CrMN0054372St. CroixLower St. CrMN0024350St. CroixLower St. CrMN0022799Upper MississippiCrow Wing FMN0022799Upper MississippiCrow Wing FMN0024388Upper MississippiCrow Wing FMN0024988Upper MississippiCrow Wing FMN0024988Upper MississippiLower St. CrMN0024988Upper MississippiLow PrairieMN0024988Upper MississippiLom PrairieMN0024988Upper MississippiLom PrairieMN0024988Upper MississippiLom PrairieMN0024984Upper MississippiLow Wing FMN0024984Upper MississippiLom Wing FMN00720134<	rinickey versions Andereen (ori)	MN0001724	St. Croix	Lower St. Croix River	07030005	26,083	71.46
MN0055808 St. Croix Lower St. Cr MN0050636 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0053350 St. Croix Lower St. Cr MN0024372 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN002438 Upper Mississippi Crow Wing F MN0024244 Upper Mississippi Crow Wing F MN0024988 Upper Mississippi Crow Wing F Addition Upper Mississippi Crow Wing F MN0024038 Upper Mississippi Low Wing F MN0024034 Upper Mississippi Low Wing F MN00250004 Upper Mississippi Low Wing F	Automotion State and Automotion Site	MNG790156	St. Crolx	Lower St. Croix River	07030005	6,366	17.44
MN0050636 St. Croix Lower St. Cr MN06640118 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0054372 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN00224350 St. Croix Lower St. Cr MN00224350 St. Croix Lower St. Cr MN002243871 Upper Mississippi Crow Wing F MN00224988 Upper Mississippi Crow Wing F MN0024988 Upper Mississippi Crow Wing F MN00249134 Upper Mississippi Lower Prairie	chinered takes total STC	MN0055808	St. Croix	Lower St. Croix River	07030005	101,835	279.00
MNG640118 St. Croix Lower St. Cr MN0050130 St. Croix Lower St. Cr MN0024372 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0022155 St. Croix Lower St. Cr MN0022156 St. Croix Lower St. Cr MN0022156 St. Croix Snake River MN0022159 Upper Mississippi Crow Wing F MN0024988 Upper Mississippi Crow Wing F MN0024988 Upper Mississippi Lower Pairie MN0024938 Upper Mississippi Low Prairie MN02250004 Upper Mississippi Low Prairie MNG250004 Upper Mississippi Low Prairie	Cimetron Park WWTP	MN0050636	St. Croix	Lower St. Croix River	07030005	4,973	166.00
MN0050130 St. Croix Lower St. Cr MN0029998 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN00221156 St. Croix Lower St. Cr MN00229871 Upper Mississippi Crow Wing F MN00224988 Upper Mississippi Crow Wing F Ict MN0024988 Upper Mississippi MN0024988 Upper Mississippi Low Wing F Ict MN00249134 Upper Mississippi MNG2550004 Upper Mississippi Low Wing F	Extert lake WTP	MNG640118	St. Crolx	Lower St. Croix River	07030005	1,078	2,95
MN0054372 St. Croix Lower St. Cr MN00229998 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr Ributary Watershed Lower St. Cr Number Watershed Lower St. Cr MN00221156 St. Croix St. Croix MN00221156 St. Croix Lower St. Cr MN00221156 St. Croix Snake River MN00221156 Upper Mississippi Crow Wing F MN00224988 Upper Mississippi Crow Wing F MN0024988 Upper Mississippi Crow Wing F Alton Upper Mississippi Crow Wing F MN0024988 Upper Mississippi Long Prairie Alton Upper Mississippi Long Prairie Alton Upper Mississippi Long Prairie		MN0050130	St. Croix	Lower St. Croix River	07030005	6,643	18.20
MN0029998 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr MN0024350 St. Croix Lower St. Cr Runber Watershed Lower St. Cr MN000825 St. Croix Lower St. Cr MN0021156 St. Croix Lower St. Cr MN00221356 St. Croix Lower St. Cr MN00221456 St. Croix Lower St. Cr MN00221456 St. Croix Snake River MN0022498 Upper Mississippi Crow Wing F MN0024988 Upper Mississippi Crow Wing F Ict MN0024988 Upper Mississippi Crow Wing F Ict MN0024988 Upper Mississippi Long Prairie Ald Upper Mississippi Long Prairie MNG250004 Upper Mississippi Long Prairie	tohn tararalla - Linwood Terrace Co	MN0054372	St. Croix	Lower St. Croix River	07030005	694	1.90
WWTP MN0024350 St. Crolx Lower St. Cr Allen S King Generating Plant Number Watershed Lower St. Cr Permit Tributary Natershed Lower St. Cr Parmit Tributary Natershed Lower St. Cr Allen S King Generating Plant MN0000825 St. Croix Lower St. Cr Parmit NN00021156 St. Croix Snake River Parmit MN0022799 Upper Mississippi Crow Wing F P MN00224244 Upper Mississippi Crow Wing F P MN0024988 Upper Mississippi Crow Wing F P MN0024988 Upper Mississippi Crow Wing F P MN0024988 Upper Mississippi Crow Wing F P MN00249134 Upper Mississippi Long Prairie Bht & Power MNG250004 Upper Mississippi Long Prairie	Mat Formeri - St Croix Valley WWTP	MN0029998	St. Croix	Lower St. Croix River	07030005	191,990	526.00
Allen S King Generating Plant Permit Tributary Allen S King Generating Plant Number Watershed Partibutary Number Watershed Number Num000825 St. Croix Num00021156 St. Croix Lower St. Cr PawWrP MN00221156 St. Croix Snake River Num0022799 Upper Mississippi Crow Wing F P MN00224244 Upper Mississippi Crow Wing F P MN0024988 Upper Mississippi Crow Wing F Res Area Sanitary District MN0024988 Upper Mississippi Long Prairie Bit & Power MNG250004 Upper Mississippi Long Prairie Sciound Water Remediation MNG290134 Upper Mississippi Long Prairie	Morth Branch WWTP	MN0024350	St. Crolx	Lower St. Croix River	07030005	33,580	92.00
Allen S King Generating Plant Permit Tributary Number Watershed Uoper St. Croix NN0000825 St. Croix Snake River NN00021156 St. Croix Snake River NN00022799 Upper Mississippi Crow Wing F NN0022799 Upper Mississippi Crow Wing F P MN0022444 Upper Mississippi Crow Wing F P MN0024988 Upper Mississippi Crow Wing F P MN0024988 Upper Mississippi Crow Wing F P MN0024988 Upper Mississippi Crow Wing F P MN0024938 Upper Mississippi Crow Wing F P MN0024938 Upper Mississippi Long Prairie Bit & Power MNG250004 Upper Mississippi Long Prairie Stround Water Remediation MNG790134 Upper Mississippi Long Prairie		:	-				/**
Allen S King Generating Plant Number Watershed P MN0000825 5t. Croix Lower St. Cr P MN0021156 5t. Croix Snake River P MN0022799 Upper Mississippi Crow Wing F P MN0022794 Upper Mississippi Crow Wing F P MN00224244 Upper Mississippi Crow Wing F P MN0024988 Upper Mississippi Crow Wing F Res Area Sanitary District MN0024988 Upper Mississippi Long Prairie ght & Power MNG250004 Upper Mississippi Long Prairie		Permit	Tributary			WLA	WLA
Allen S King Generating PlantMN0000825St. CroixPMN0021156St. CroixPMN0022799Upper MississippiPMN0022799Upper MississippiPMN0024244Upper MississippiPMN0024248Upper MississippiPMN0024988Upper MississippiPMN0024988Upper MississippiPMN0024988Upper MississippiPMN0024988Upper MississippiBht & PowerMN6250004Upper MississippiStround Water RemediationMNG2500134Upper Mississippi		Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
p MN0021156 St. Croix a WWTP MN0022799 Upper Mississippi p MN0059871 Upper Mississippi p MN0024948 Upper Mississippi p MN0024988 Upper Mississippi ftlt & Power MN6250004 Upper Mississippi ftlt & Power MNG250004 Upper Mississippi	vral Enarøv - Allan S King Generating Plant	MN0000825	St. Croix	Lower St. Croix River	07030005	1,226,710	3,360.85
p MN0022799 Upper Mississippi a WWTP Upper Mississippi p NN0029871 Upper Mississippi p NN0024244 Upper Mississippi p NN00242988 Upper Mississippi p NN0024988 Upper Mississippi p NN0024988 Upper Mississippi p NN0024988 Upper Mississippi p NN0024988 Upper Mississippi p NN002004 Upper Mississippi ght & Power NNG250004 Upper Mississippi		MN0021156	St. Croix	Snake River - St. Croix Basin	07030004	33,215	91.00
MN0059871 Upper Mississippi MN0024244 Upper Mississippi MN0024988 Upper Mississippi MN0040738 Upper Mississippi MNG250004 Upper Mississippi MNG790134 Upper Mississippi	Rortha WWTP	MN0022799	Upper Mississippl	Crow Wing River	07010106	8,206	171.80
MN0024244 Upper Mississippi MN0024988 Upper Mississippi MN0040738 Upper Mississippi MNG250004 Upper Mississippi MNG290134 Upper Mississippi	East Guilt take WW/TP	MN0059871	Upper Mississippi	Crow Wing River	07010106	17,082	46.80
MN0024988 Upper Mississippi MN0040738 Upper Mississippi MNG250004 Upper Mississippi MNG790134 Upper Mississippi		MN0024244	Upper Mississippi	Crow Wing River	07010106	26,682	73.10
MN0040738 Upper Mississippi 1 MNG250004 Upper Mississippi 1 MNG790134 Upper Mississippi 1		MN0024988	Upper Mississippi	Crow Wing River	07010106	28,178	77.20
MNG250004 Upper Mississippi 1 MNG790134 Upper Mississippi 1	Staptes www. Alwoodria Lakes Area Sanitary District	MN0040738	Upper Mississippi	Long Prairie River	07010108	123,735	339.00
MNG790134 Upper Mississippi	Alexandria Linhi & Dower	MNG250004	Upper Mississippi	Long Prairie River	07010108	2,122	5.81
	Alexantum of up of the second Water Remediation	MNG790134	Upper Mississippi	Long Prairie River	07010108	15,915	43.60
MN0066079 Upper Mississippi Long Prairie River	Long Francis Control Municipal	MN0066079	Upper Mississippi	Long Prairie River	07010108	75,920	208,00
MN0020095 Upper Mississippi River - Brainerd		MN0020095	Upper Mississippi	Mississippi River - Brainerd	07010104	28,580	78.30

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Anderson Custom Processing Inc	MING255005	Upper Mississippi	Mississippi River - Brainerd	07010104	5,305	14.53
BNSF RR - Former Tie Treating Plant	MN0055387	Upper Mississippi	Mississippi River - Brainerd	07010104	9,284	25.44
Brainerd WWTP	MIN0049328	Upper Mississippi	Mississippi River - Brainerd	07010104	129,575	355.00
Camp Ripley - Area 22 Washrack	MN0063070	Upper Mississippi	Mississippi River - Brainerd	07010104	373	1,02
Camp Ripley WWTP	MN0025721	Upper Mississippi	Mississippi River - Brainerd	07010104	59,495	163.00
Little Falls WTP	MNG640128	Upper Mississippi	Mississippi River - Brainerd	07010104	2,984	8.18
Little Falls WWTP	MN0020761	Upper Mississippi	Mississippi River - Brainerd	07010104	99,280	272.00
Randall WWTP	MN0024562	Upper Mississippi	Mississippi River - Brainerd	07010104	7,556	20.70
Sampson Farms	MN0057533	Upper Mississippi	Mississippi River - Brainerd	07010104	12,434	34.07
Swanville WWTP	MN0020109	Upper Mississippi	Mississippi River - Brainerd	07010104	7,556	20.70
Wausau Paper Mills LLC	MN0001422	Upper Mississippi	Mississippi River - Brainerd	07010104	261,920	717.59
Avon WWTP	MN0047325	Upper Mississippi	Mississippi River - Sartell	07010201	17,484	47.90
Benton Utilities WWTP	MN0065391	Upper Mississippi	Mississippi River - Sartell	07010201	3,103	8.50
Holdingford WWTP	MN0023710	Upper Mississippi	Mississippi River - Sarteli	07010201	10,111	27.70
Lake Andrew WWTP	MN0067733	Upper Mississippi	Mississippi River - Sartell	07010201	628	1.72
New Plrates Cove WWTP	MN0066109	Upper Mississippi	Mississippi River - Sartell	07010201	2,070	5.67
Order of St Benedict - Power Plant	MN0046035	Upper Mississippi	Mississippi River - Sartell	07010201	2,946	8.07
Order of St Benedict WW1P	MN0022411	Upper Mississippi	Mississippi River - Sartell	07010201	10,038	27.50
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	Permit	Tributary			WLA	WLA
Name	Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
Sartell Valves inc	MNG255084	Upper Mississippi	Mississippi River - Sarteli	07010201	4,509	12.35
Albertville WWTP	MN0050954	Upper Mississippi	Mississippi River - St. Cloud	07010203	38,690	106.00
Appert's inc	MN0052728	Upper Mississippi	Mississippi River - St. Cloud	07010203	442	1.21
Aspen Hills WWTP	MN0066028	Upper Mississippi	Mississippi River - St. Cloud	07010203	807	2.21
Becker WWTP - Municipal	MN0025666	Upper Mississippi	Mississippi River - St. Cloud	07010203	35,186	96.40
Big Lake WWTP	MN0041076	Upper Mississippi	Mississippi River - St. Cloud	0701.0203	15,038	41.20
Clear Lake/Clearwater WWTP	MN0047490	Upper Mississippi	Mississippi River - St. Cloud	07010203	10,841	29.70
Elk River Municipal Utilites	MNG250016	Upper Mississippi	Mississippi River - St. Cloud	07010203	12,069	33.07
Elk River WWTP	MN0020788	Upper Mississippi	Mississippi River - St. Cloud	07010203	43,070	118.00
Courts Missing Missing Watered	YL					-

	MNG790169	Upper Mississippi	Mississippi River - St. Cloud	07010203	198,940	545.04
Generations ender a subject of the Blood Station	MN0001988	Upper Mississippi	Mississippi River - St. Cloud	07010203	4,147,518	11,363.06
MARTERIA WAATP	MN0020567	Upper Mississippi	Mississippi River - St. Cloud	07010203	49,640	136.00
	MN0066257	Upper Mississippi	Mississippi River - St. Cloud	07010203	29,784	81.60
ULSEBO W WIT WEST	MN0042251.	Upper Mississippi	Mississippi River - St. Cloud	07010203	2,482	6.80
KIVEDERIG MUSHE FORE STATE	MN0040878	Upper Mississippi	Mississippi River - St. Cloud	07010203	538,010	1,474.00
Samu Chourt Veven Vool - Maanhollo Nuclear Generating Pit	MIN0000868	Upper Mississippi	Mississippi River - St. Cloud	07010203	8,249	22.60
Acel - Montheed Provider of Acel - Acel - Sherburne Generaling Plant	MN0002186	Upper Mississippi	Mississippi River - St. Cloud	07010203	627,435	1,719.00
Atter - Step Source Service 5 - 2015	MN0042331	Upper Mississippi	Mississippi River - St. Cloud	07010203	18,615	51,00
Anddi - Pavnavilla	MN0044326	Upper Mississippi	North Fork Crow River	07010204	12,600	34,52
Annandale/Manle Lake/Howard Lake WWTP	MN0066966	Upper Mississippi	North Fork Crow River	07010204	48,910	134.00
Ruffalo WW TP	MN0040649	Upper Mississippi	North Fork Crow River	07010204	149,285	409.00
Buchmille Ethanol	MN0067211	Upper Mississippi	North Fork Crow River	07010204	6,424	17.60
travitande foorde - fotkato	MN0030635	Upper Mississippi	North Fork Grow River	07010204	29,565	81.00
Great River Finerav of Dickinson	MN0049077	Upper Mississippi	North Fork Crow River	07010204	1,243	3.41
Graan Laka SSWD WWTP	MN0052752	Upper Mississippl	North Fork Crow River	07010204	36,865	101.00
Greanfield WWTP	MN0063762	Upper Mississippi	North Fork Crow River	07010204	4,125	11.30
Growned CHAN MANTP	MN0023574	Upper Mississippi	North Fork Crow River	07010204	9,125	25.00
	MN0023973	Upper Mississippi	North Fork Crow River	07010204	78,475	215.00
Litterine of Whitener (reak WWTP	MN0066753	Upper Mississippi	North Fork Crow River	07010204	840	2.30
	permit	Tributary	· · · · · · · · · · · · · · · · · · ·	, , and and a second se	WLA	WLA
	Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
NATITE MAPEA - Paynesville GWP 4	MNG790109	Upper Mississippi	North Fork Crow River	07010204	12,732	34,88
Mr.Com 1 aprice with a commentation of the com	MN0064190	Upper Mississippi	North Fork Crow River	07010204	45,625	125.00
	MN0024627	Upper Mississippi	North Fork Crow River	07010204	26,937	73.80
DOUNDIA WWW.	MN0029629	Upper Mississippi	North Fork Crow River	07010204	66,065	181.00
coint Michael W/W/FP	MN0020222	Upper Mississippi	North Fork Crow River	07010204	101,215	277,30
Windows WWTP	MN0020672	Upper Mississippi	Redeye River	07010107	31,025	85.00
	MN0022870	Upper Mississippi	Rum River	07010207	16,571	45.40
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Cambridge WWTP	MN0020362	Upper Mississippi	Rum River	07010207	26,682	73,10
Castle Towers WWTP	MN0042196	Upper Mississippi	Rum River	07010207	4,964	13.60
Isanti Estates LLC	MN0054518	Upper Mississippi	Rum River	07010207	840	2.30
Isanti WVTP	MN0023795	Upper Mississippi	Rum River	07010207	11,242	30.80
Kraemer Mining & Materials - Mille Lacs	MN0067806	Upper Mississippi	Rum River	07010207	41,446	113.55
Premier Products Inc	MNG250082	Upper Mississippi	Rum River	07010207	191	0.52
Princeton WWTP	MN0024538	Upper Mississippi	Rum River	07010207	26,280	72.00
Saint Francis WWTP	MN0021407	Upper Mississippi	Rum River	07010207	22,338	61.20
Bel Clare Estates WWTP	MN0045721	Upper Mississippi	Sauk River	07010202	3,103	8.50
Cold Spring WWTP	MN0023094	Upper Mississippi	Sauk River	07010202	29,821	81.70
Gold'n Plump Poultry - Cold Spring	MN0047261	Upper Mississippi	Sauk River	07010202	38,617	105.80
Lake Henry WWTP	MN0020885	Upper Mississippi	Sauk River	07010202	1,657	4.54
Martin Marletta Materials inc	MN0004031	Upper Mississippi	Sauk River	07010202	72,964	199.90
Melrose WWTP	MN0020290	Upper Mississippi	Sauk River	07010202	124,100	340,00
NuStar - Sauk Centre Terminal	MN0057771.	Upper Mississippi	Sauk River	07010202	4,145	11.36
Richmond WWTP	MN0024597	Upper Mississippi	Sauk River	07010202	12,848	35.20
Sauk Centre WWTP	MN0024821	Upper Mississippi	Sauk River	07010202	36,719	100.60
AB Mauri Food Inc	MNG250099	Upper Mississippi	South Fork Crow River	07010205	132,626	363,36
Brownton WWTP	MN0022951	Upper Mississippi	South Fork Crow River	07010205	8,140	22.30
Delano WTP	MNG6401.23	Upper Mississippi	South Fork Crow River	07010205	6,217	17.03
Delano WWTP	MN0051.250	Upper Mississippi	South Fork Crow River	07010205	91,031	249.40
Glencoe WWTP	MN0022233	Upper Mississippi	South Fork Crow River	07010205	107,675	295.00
	Permit	Tributary		,	WLA	WLA
Name	Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
Hector WWTP	MN0025445	Upper Mississippi	South Fork Crow River	07010205	27,302	74.80
Hutchinson Technology Inc	MN0055506	Upper Mississippi	South Fork Crow River	07010205	5,526	15.14
Hutchinson WWTP	MN0055832	Upper Mississippl	South Fork Crow River	07010205	176,660	484.00
Lester Prairie WWTP	MN0023957	Upper Mississippi	South Fork Crow River	07010205	15,075	41.30
Mayer WWTP	MN0021202	Upper Mississippi	South Fork Crow River	07010205	17,995	49.30

South Metro Mississippi Watershed Final Revised TMDL Decision Document

38

 MN0063151	Upper Mississippi	Upper Mississippi South Fork Crow River	07010205	1,658	4.54
MIN0020940	Upper Mississippi	South Fork Crow River	07010205	52,195	143.00
MN0025259	Upper Mississippi	Upper Mississippi South Fork Crow River	07010205		852,00
MN0021571	Upper Mississippi	Upper Mississippi South Fork Crow River	07010205	33,945	93.00

Revised 2/20/2019A.2. Minnesota Wastewater Permits with TSS Limits > 32 mg/L Not Eligible for Future WLA Increase

	Permit Number	Tributary Watershed	Major Watershed	HUC-8	WLA (kg/year)	WLA (kg/day)
Name	MN00221.95	Cannon	Cannon River	07040002	2,335	66.00
Dennison www.r	MNG580014	Cannon	Cannon River	07040002	9,353	324.60
Eliendate www.rr Flicebay.WWTD	MN0041114	Саппоп	Cannon River	07040002	12,123	349.65
Elysian vv vr r Consus WWTP	MN0021008	Cannon	Cannon River	07040002	6,434	162.00
	MNG580084	Саппоп	Cannon River	07040002	2,126	81.15
Maridan Township WWTP	MN0068713	Cannon	Cannon River	07940002	1,501	51.15
www.mort - Heath Creek Rest Area	MN0069639	Cannon	Cannon River	07040002	560	11.70
MINDOT Straight River Rest Area	MN0049514	Cannon	Cannon River	07040002	1,119	24.00
	MN0022772	Metroshed	Lower Minnesota River	07020012	39,770	923.50
bene riante vivili Primardal frisamerias (nf	MN0002135	Metroshed	Lower Minnesota River	07020012	15,153	483.50
	MN0025585	Metroshed	Lower Minnesota River	07020012	5,875	144.75
Haimburg wwwir	MN0022446	Metroshed	Lower Minnesota River	07320012	24,150	345,00
	MN0021946	Metroshed	Mississippi River - Lake Pepin	07040001	9,419	103.50
	MNG580118	Minnesota	Blue Earth River	07020009	14,827	628.50
	MNG580129	Minnesota	Blue Earth River	07020009	6,248	119.10
Finore WWTP	MN0021920	Minnesota	Blue Earth River	0002020	11,750	636.00

South Metro Mississippi Watershed Final Revised TMDL Decision Document

Frost WWTP	MNG580120	Minnesota	Blue Earth River	07.020009	4,495	100,35
Granada WWTP	MNG580023	Minnesota	Blue Earth River	07020009	3,693	92,40
Kiester WWTP	MNG580097	Minnesota	Blue Earth River	07020009	8,393	126.90
Northrop WWTP	MN0024384	Minnesota	Blue Earth River	07020009	4,663	201.60
Vernon Center WWTP	MN0030490	Minnesota	Blue Earth River	07020009	5,475	15.00
Walters WWTP	MN0068756	Minnesota	Blue Earth River	07020009	1,457	37.35
Clontarf WWTP	MNG580108	Minnesota	Chippewa River	7020005	2,191	54.00
Danvers WWTP	MNG580119	Minnesota	Chippewa River	07020005	2,135	48.15
Evansville WWTP	MN0023329	Minnesota	Chippewa River	07020005	9,325	191.25
Farwell Kensington Sanitary District WWTP	MNG580220	Minnesota	Chippewa River	07020005	7,115	145,50
Name	Permit Number	Tributary Watershed	Major Watershed	HUC-8	WLA (kg/year)	WLA (kg/day)
Hancock WWIP	MN0023582	Minnesota	Chippewa River	07020005	17,056	349.95
Hoffman WWTP	MNG580134	Minnesota	Chippewa River	07020005	14,827	630.30
Lowry WWTP	MN0024007	Minnesota	Chippewa River	07020005	4,607	107.70
Millerville wwTP	MN0054305	Minnesota	Chippewa River	07020005	3,637	64,80
Murdock WWTP	MNG580086	Minnesota	Chippewa River	07020005	3,963	81.00
Sunburg WWTP	MNG580125	Minnesota	Chippewa River	07020005	1,464	30,12
Urbank WWTP	MN0068446	Minnesota	Chippewa River	07020005	1,026	20.40
Acme-Ochs Plant	MN0061646	Minnesota	Cottonwood River	07020008	11,635	126.47
Balaton WWTP	MN0020559	Minnesota	Cottonwood River	07020008	11,470	208.50
Clements WWTP	MNG580094	Minnesota	Cottonwood River	07020008	2,331	41.57
Del Monte Corp - Plant 114	MN0001171	Minnesota	Cottonwood River	07020008	23,751	196.50
Garvin WWTP	MNG580101.	Minnesota	Cottonwood River	07020008	2,005	43.20
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	MING580100	Minnesota	Cottonwood River	07020008	18,651	333.00
Lamberton www.r	MNG580112	Minnesota	Cottonwood River	07020008	2,574	58.20
	MNG580114	Minnesota	Cottonwood River	07020008	1,669	38,25
Revere VV VI P	MNG580115	Minnesota	Cottonwood River	07020008	6,621	87.30
Sanborn WW1P	MNG580041	Minnesota	Cottonwood River	07020008	65,277	1,646.85
Sleepy Eye www.rk	MNG580106	Minnesota	Cottonwood River	07020008	3,262	67.35
	MN0021725	Minnesota	Cottonwood River	07020008	27,976	291.00
Tracy WWIP		Minnesota	Cottonwood River	07020008	1,557	45.75
Wanda WWTP			Cottonwood River	07020008	13,988	415.65
Westbrook WWFP	MNG580127				960 9	103 05
Delavan WWTP	MNG5801.09	Minnesola	Le Sueur River	TTONZO/O	acn'c	- E · CAT
Exchant WWTP	MNG580018	Minnesota	Le Sueur River	07020011	3,320	62,40
	MNG580206	Minnesota	Le Sueur River	07020011	7,64.7	181.05
	MANG580102	Minnesota	Le Sueur River	11002070	4,196	101.10
Hartland WW H		Minnesota	Le Sueur River	07020011	31,799	874.05
Janesville WWTP				07020011	37,861	915.00
Mapleton WWTP	MN0021172	Minnesota	Le sueur kivel			
Development MWTP	MNG580075	Minnesota	Le Sueur River	07320011	4,942	166.50
Wells-Easton-Minnesota Lake WWTP	MN0025224	Minnesota	Le Sueur River	07020011	101,459	3,969.00
	Dormit	Tributary	•		MLA	WLA
	Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)

40.50 534.00 30.00 253.95 1,123.65 1,026 1,166 51,289 15,014 32,452 07020012 07020012 07020012 07020012 07020012 Lower Minnesota River Lower Minnesota River Lower Minnesota River Lower Minnesota River Najo Lower Minnesota River Minnesota Minnesota Minnesota Minnesota Minnesota MN0067610 MNG580204 MNG580020 MN0067334 MN0051098 Altona Hutterian Brethren WWTP Starland Hutterian Brethren Inc Winthrop WWTP Gaylord WWTP Gibbon WWTP Name

South Metro Mississippi Watershed Final Revised TMDL Decision Document

41

Cleveland WWTP	MNG580009	Minnesota	Minnesota River - Mankato	07020007	12,776	274.65
Evan WWTP	MNG580202	Minnesota	Minnesota River - Mankato	07.020007	1,194	37,05
Fairfax WWTP	MNG580060	Minnesota	Minnesota River - Mankato	07020007	29,654	1,076.55
Franklin WW IP	MN0021083	Minnesota	Minnesota River - Mankato	07020007	10,724	29.40
Hanska WWTP	MNG580207	Minnesota	Minnesota River - Mankato	07020007	4,663	95.70
Jeffers WWTP	MNG580111	Minnesota	Minnesota River - Mankato	07020007	6,528	87,30
Morton WWTP	MN0051292	Minnesota	Minnesota River - Mankato	07020007	12,309	33.75
Nicollet WWTP	MNG580037	Minnesota	Minnesota River - Mankato	07020007	19,397	653.40
Searles WWTP	MNG580080	Minnesota	Minnesota River - Mankato	07020007	4,756	98.25
Beiview WWTP	MING580003	Minnesota	Minnesota River - Yellow Medicine River	07020004	13,739	431.70
Bird Island WWTP	MN0022829	Minnesota	Minnesota River - Yellow Medicine River	07020004	17,345	289.50
Blomkest Svea Sewer Board WWTP	MN0069388	Minnesota	Minnesota River - Yeliow Medicine River	07020004	3,730	115.50
Clarkfield WWTP	MNG580093	Minnesota	Minnesota River - Yellow Medicine River	07020004	30,494	748.20
Cottonwood WWTP	MNG580010	Minnesota	Minnesota River - Yellow Medicine River	07020004	14,920	472.65
Danube WWTP	MNG580057	Minnesota	Minnesota River - Yeljow Medicine River	07020004	6,248	165.00
Echo WWTP	MNG580059	Minnesota	Minnesota River - Yellow Medicine River	07020004	8,066	166.20
Hanley Fails WWTP	MNG580122	Minnesota	Minnesota River - Yellow Medicine River	07020004	3,264	62.40
lvanhoe WWTP	MNG580103	Minnesota	Minnesota River - Yellow Medicine River	07020004	10,258	141.45
Minneota WWIP	MNG580033	Minnesota	Minnesota River - Yellow Medicine River	07020004	22,287	457.20
Pennock WWTP	MNG580104	Minnesota	Minnesota River - Yellow Medicine River	07020004	8,020	166.50
Porter WWTP	MNG580128	Minnesota	Minnesota River - Yellow Medicine River	07020004	1,772	41,55
Raymond WWTP	MNG580197	Minnesota	Minnesota River - Yellow Medicine River	07020004	7,703	361,50
Redwood Falls WWTP	MN0020401	Minnesota	Minnesota River - Yellow Medicine River	07020004	123,188	337.50
Saint Leo WWTP	MN0024775	Minnesota	Minnesota River - Yellow Medicine River	07020004	1,585	36,00

	Docmit	Tributary			WLA	WLA
	Number	Watershed	Major Watershed	HUC-8	(kg/year)	(kg/day)
Taunton W/WTP	MNG580090	Minnesota	Minnesota River - Yellow Medicine River	07020004	1,958	49.95
admonth also WWTP	MNG580107	Minnesota	Minnesota River - Yellow Medicine River	07020004	6,015	31.50
chant WWTP	MNG580121	Minnesota	Redwood River	07020006	3,450	66.00
1 vnd WWTP	MNG580030	Minnesota	Redwood River	07020006	4,252	87.30
Milroy WWTP	MNG580124	Minnesota	Redwood River	07020006	3,227	63.00
Russell WWTP	MNG580062	Minnesota	Redwood River	07020006	7,833	3.49.70
Ruthton WWTP	MNG580105	Minnesota	Redwood River	07020006	5,306	96.45
Tvler WWTP	MNG580116	Minnesota	Redwood River	07020006	16,319	278.55
Vesta WWTP	MNG580043	Minnesota	Redwood River	07020006	3,324	66.15
Butterfield WWTP	MN0022977	Minnesota	Watonwan River	07020010	27,043	706.65
Lewisville WWTP.	MN0065722	Minnesota	Watonwan River	07020010	5,595	118,50.
Mountain Lake WWTP	MNG580035	Minnesota	Watonwan River	C7020010	32,639	1,051.50
Neuhof Hutterian Brethren	MNG580113	Minnesota	Watonwan River	07020010	396	29.55
Odla-Ormsby WWTP	MN0069442	Minnesota	Watonwan River	07020010	2,933	76.50
Barnum WWTP	MNG580142	St. Croix	Kettle River	07030003	13,578	278,55
Finlayson WWTP	MNG580203	St. Croix	Kettle River	07030003	27,976	208,50
Kettle River WWTP	MNG580183	St. Croix	Kettle River	07030003	3,273	73.65
Moose Lake WWTP	MN0020699	St. Croix	Kettle River	07030003	46,160	1,257.00
Sandstone WWTP	MNG580213	St. Croix	Kettle River	07030003	35,716	732,00
Willow River WWTP	MN0021971	St. Croix	Kettle River	07030003	4,103	139.32
Rush Ctty WWTP	MNG580212	St. Croix	Lower St. Croix River	07030005	37,255	940,65
Shafer WWTP	MN0030848	St. Croix	Lower St. Croix River	07030005	6,792	202.50
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Shorewood Park Sanitary District	MNG580216	St. Croix	Lower St. Croix River	07030005	1,399	49.95
Taylors Falls WWTP	MNG580218	St. Croix	Lower St. Croix River	07030005	13,149	291.30
Grasston WWTP	MN0025691	St. Croix	Snake River - St. Croix Basin	07030004	3,544	99.75
Ogilvie WWTP	MN0021997	St. Croix	Snake River - St. Croix Basin	07030004	21,353	58.50
Pine City WWIP	MN0021784	St. Croix	Snake River - St. Croix Basin	07030004	69,940	1,550.25
Wahkon WWTP	MN0047066	St. Croix	Snake River - St. Croix Basin	07030004	11,284	245,10
Askov WWTP	MN0022616	St. Croix	Upper St. Croix River	07030001	4,700	112.50
					h	
Name	Permit Number	Tributary Watershed	Major Watershed	HUC-8	WLA (kg/year)	WLA (kg/day)
Menahga WWTP	MNG580032	Upper Mississippi	Crow Wing River	07010106	18,184	557.25
Pillager WWTP	MNG580209	Upper Mississippi	Crow Wing River	07010106	6,826	241.20
Browerville WWTP	MN0022926	Upper Mississippi	Long Prairie River	07010108	35,996	1,015.50
Carlos WWTP	MN0023019	Upper Mississippi	Long Prairie River	07010108	5,968	199.50
Clarissa WWTP	MNG580008	Upper Mississippi	Long Prairle River	07010108	9,512	234.45
Eagle Bend WWTP	MN0023248	Upper Mississippi	Long Prairie River	07010108	18,184	375.00
Garfield wwrtP	MN0023515	Upper Mississippi	Long Prairie River	07010108	5,595	199.50
Miltona WWTP	MN0024155	Upper Mississippi	Long Prairie River	07010108	7,460	152.10
Flensburg WWTP	MNG580016	Upper Mississippi	Mississippi River - Brainerd	07010104	1,725	41.55
Grey Eagle WWTP	MN0023566	Upper Mississippi	Mississippi River - Brainerd	07010104	8,673	145.05
Serpent Lake WW TP	MNG580215	Upper Mississippi	Mississippi River - Brainerd	07010104	62,666	1,598.10
Sobieski WWTP	MNG580217	Upper Mississippi	Mississippi River - Brainerd	07010104	1,585	53.25
Albany WWTP	MIN0020575	Upper Mississippi	Mississippi River - Sartell	07010201	51,476	1,275.00
Bowlus WWTP	MN0020923	Upper Mississippi	Mississippi River - Sarteli	07010201	2,798	70.65
Rice WWTP	MN0056481	Upper Mississippi	Mississippi River - Sartell	07010201	17,252	354.90

44

South Metro Mississippi Watershed Final Revised TMDL Decision Document

Rich Prairie Sewer Treatment Facility	MNG580211	Upper Mississippl	Mississippi River - Sartell	07010201	21,411	553.50
Rovalton WWIP	MN0020460	Upper Mississippi	Mississippi River - Sartell	07010201	1.6,133	44.10
tinsala WWTP	MNG580053	Upper Misslssippi	Mississippi River - Sartell	0/010201	4,402	162.30
Enfort WWTP	MN0023451	Upper Mississippi	Mississippi River - St. Cloud	07010203	34,625	727.50
Gilman WWIP	MNG580021	Upper-Mississippi	Mississippi River - St. Cloud	07010203	6,155	99,75
Atwater WWTP	MN0022659	Upper Mississippi	North Fork Crow River	07010204	18,651	312.00
Belgrade WWTP	MN0051381	Upper Mississippi	North Fork Crow River	07010204	31,146	378.00
Brooten WWTP	MN0025909	Upper Mississippi	North Fork Crow River	07010204	12,403	270.75
Cokato W/WTP	MN0049204	Upper Mississippi	North Fork Crow River	07010204	67,616	185.25
Darwin WWTP	MNG580150	Upper Mississippi	North Fork Crow River	07010204	4,663	83.10
Dassel WWTP	MN00541.27	Upper Mississippi	North Fork Crow River	07010204	17,532	312.00
Montrose WWTP	MN0024228	Upper Mississippi	North Fork Crow River	07010204	72,818	199.50
Pavnesville WWTP	MN0020168	Upper Mississippi	North Fork Crow River	07010204	82,715	373,50
Dear Creek WWTP	MNG580180	Upper Mississippi	Redeye River	07010107	3,171	133,05
	Permit Number	Tributary Watershed	Mainr Watershad	H11C-8	WLA (kg/year)	WLA (kg/day)
Name Hawith WWTP	MNG580024	Upper Mississippi	Redeye River	07010107	3,171	83.10
Seheka WWIP	MN0024856	Upper Mississippi	Redeye River	07010107	18,651	241,05
Wolf Lake WWIP		Upper Mississippi	Redeye River	07010107	783	29.10
Foreston WWTP	MNG580017	Upper Mississippi	Rum River	07010207	4,560	172.05
Isle WWTP	MN0023809	Upper Mississippi	Rum River	07010207	18,651	307.50
MDNR Father Hennepin State Park	MN0033723	Upper Mississippi	Rum River	07010207	802	20.85
Milaca WWTP	MN0024147	Upper Mississippi	Rum River	07010207	63,319	964.35
Onamia WWTP	MNG580050	Upper Mississippl	Rum River	07010207	1.9,583	403.20

Pease WWTP	MNG580167	Upper Mississippi	Rum River	07010207	3,637	106.05
Freeport WWTP	MNG580019	Upper Mississippi	Sauk River	07010202	12,123	249.45
GEM Sanitary District	MNG580205	Upper Mississippi	Sauk River	07010202	7,544	156.00
Osakis WWTP	MN0020028	Upper Mississippi	Sauk River	07010202	27,323	1,138,80
Saint Martin WWTP	MN0024783	Upper Mississippi	Sauk River	07010202	3,917	112,20
Buffalo Lake WWTP	MN0050211	Upper Mississippi	South Fork Crow River	07010205	15,387	444,75
Cedar Mills WWTP	MN0066605	Upper Mississippi	South Fork Crow River	07010205	853	49,95
Cosmos WWTP	MNG580056	Upper Mississippi	South Fork Crow River	07010205	8,393	114.30
Lake Lillian WWTP	MN0021954	Upper Mississippi	South Fork Crow River	07010205	4,966	100.50
Loretto WWTP	MN0023990	Upper Mississippi	South Fork Crow River	07010205	5,688	203.70
New Germany WWTP	MN0024295	Upper Mississippi	South Fork Crow River	07010205	4,849	97.50
Seneca Foods Corp - Glencoe	MN0001236	Upper Mississippi	South Fork Crow River	07010205	69,953	1,298.45
Silver Lake WWTP	MNG580164	Upper Mississippi	South Fork Crow River	07010205	12,962	336,60
Stewart WWTP	MNG580077	Upper Mississippi	South Fork Crow River	07010205	10,631	214.50

A.3. Minnesota Permits Subject to Categorical Industrial Stormwater WLA

		Tributary		-
Name	Permit Number	Watershed	Major Watershed	HUC-8
Aggregate industries Inc -Multiple Sites	MNG490073	Cannon	Cannon River	07040002
Castle Rock Materials	MING490258	Cannon	Cannon River	07040002
David Spinler Construction Inc	MNG490076	Cannon	Cannon River	07040002
Kielmeyer Construction Inc	MNG490085	Cannon	Cannon River	07040002
Koch - Wood River Pipeline	MN0064700	Cannon	Cannon River	07040002
Ritchie Bros Auctioneers	MN0069256	Cannon	Cannon River	07040002
SMCCI - North Sanders/North Medford	MN0067792	Cannon	Cannoń River	07040002
Tom Mariska Pit	MNG490230	Cannon	Cannon River	07040002

South Metro Mississippi Watershed Final Revised TMDL Decision Document

Tri-County Apprendie Inc	MNG490176	Саплол	Cannon River	07040002
Withe Brothers Inc	MNG490156	Cannon	Cannon River	07040002
Wondra Dit	MNG490130	Cannon	Cannon River	07040002
Tutal Dit	MNG490245	Cannon	Cannon River	07040002
Rhuminous Roadways Inc	MNG490006	Metroshed	Lawer Minnesota River	07020012
Brvan Rock Products Inc	MNG490080	Metroshed	Lower Minnesota River	07020012
Careill AgHorizons - East Elevator Dredge	MN0054445	Metroshed	Lower Minnesota River	07020012
Carall AgHorizons - West Elevator Dredge	MN0062201	Metroshed	Lower Minnesota River	07020012
City of Jordan - Mill Pond Dredge	MN0068730	Metroshed	Lower Minnesota River	07020012
Frac Master Sands LLC	MNG490201	Metroshed	Lower Minnesota River	07020012
Midwest Asphalt Corp	MNG490132	Metroshed	Lower Minnesota River	07020012
Nine Mile Creek Watershed District WW	MN0069094	Metroshed	Lower Minnesota River	07020012
	Permit Number	Tributary Watershed	Major Watershed	HUC-8
Prior Lk/Spring Lk Ferric Chloride WTP	MIN0067377	Metroshed	Lower Minnesota River	07020012
Savage Riverbort Dredge	MN0069035	Metroshed	Lower Minnesota River	07020012
Terry Bros Moon Valley LLC	MNG490243	Metroshed	Lower Minnesota River	07020012
Wm Mitteller & Sons Inc - Hamburg	MNG490042	Metroshed	Lower Minnesota River	07020012
Eureka Sand & Gravel Inc - Eureka Pit	MNG490077	Metroshed	Mississippi River - Lake Pepin	07040001
Fischer Sand & Aggregate LLP	MNG490263	Metroshed	Mississippi River - Lake Pepin	07040001
Garvev Ph	MNG490221	Metroshed	Mississippi River - Lake Pepin	07040001
Kellv/Ames Mining Operation	MNG490232	Metroshed	Mississippi River - Lake Pepin	07040001
Pine Bend Paving Inc	MNG490211	Metroshed	Mississippi River - Lake Pepin	07040001
SKB/Ped Sand Pit	MNG490261	Metroshed	Mississippi River - Lake Pepin	07040001
Storile Gravel Pit	MNG490169	Metroshed	Mississippi River - Lake Pepin	07040001
Bp Pipelines North America Inc	MN0063754	Metroshed	Mississippi River - Twin Cities	07010206
CenterPoint Energy Distribution System	MN0063649	Metroshed	Mississippi River - Twin Cities	07010206
.CS McCrossan Construction Inc	MNG490009	Metroshed	Mississippi River - Twin Citles	07010206
Davton Park Próperties	MN0041432	Metroshed	Mississippi River - Twin Citles	07010206

47

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		Metroshed	Mississippi River - Twin Cities	07010206
The second se	MN0065404	Metroshed	Mississippi River - Twin Cities	07010206
Magelian Pipeline Co LP - Hydrostatic	MN0063304	Metroshed	Mississippi River - Twin Cities	07010206
Magellan Pipeline Co LP - Mpls Complex	MN0045896	Metroshed	Mlssissippi River - Twin Cities	07010206
Met Council - Minneapolis CSO	MN0046744	Metroshed	Mississippi River - Twin Cities	07010206
Met Council - St Paul CSQ	MN0025470	Metroshed	Mississippi River - Twin Cities	07010206
Minneapolis Municipal Storm Water MN	MN0061018	Metroshed	Mississippi River - Twin Cities	07010206
Minnesota Pipe Line Co - Meter Station MN	MIN0056472	Metroshed	Mississippi River - Twin Cities	07010206
MNDNR - Forestry	MNG490239	Metroshed	Mississippi River - Twin Cities	07010206
MPCA Leak 13456 MNv	MNG790174	Metroshed	Mississippi River - Twin Cities	07010206
Northern Con-Agg Inc	MNG490088	Metroshed	Mississippi River - Twin Cities	07010206
Northern Metal Recycling	MN0063380	Metroshed	Mississippi River - Twin Cities	07010206
Saint Paul Department of Public Works/Asphalt Plt MN	MNG490034	Metroshed	Mississippi River - Twin Cities	07010206
Name	Permit Number	Tributary Watershed	Maior Watershed	HILC.8
St Paul Municipal Storm Water MNN	MN0061263	Metroshed	Mississippi River - Twin Citles	07010206
St Paul Port Authority-Southport Barge Slip Dredge MNN	MN0056081	Metroshed	Mississippi River - Twin Cities	07010206
Tiller Corp	MNG490010	Metroshed	Mississippi River – Twin Cities	07010206
Twin City Tanning LLP	MN0068411	Metroshed .	Mississippi River - Twin Cities	07010206
US Air Force Reserve/934th Airlift Wing MNI	MN0052141	Metroshed	Mississippi River - Twin Cities	07010206
Viking Gas Transmission MNN	MN0060755	Metroshed	Mississippi River - Twin Cities	07010206
Xcel Energy Hydrostatic Testing	MN0060089	Metroshed	Mississippi River - Twin Cities	07010206
Faribault County Public Works MM	MNG4901.54	Minnesota	Blue Earth River	0702009
Hanel Pit MNN	MNG490236	Minnesota	Blue Earth River	07020007
Valero Renewable Fuels Co LLC - Welcome Plant MNK	MN00681.61	Minnesota	Blue Earth River	07020009
Charles Kotten MIN	MING490248	Minnesota	Cottonwood River	07020008
Dallenbach Gravel Pit	MNG490094	Minnesota	Cottonwood River	07020008
Highwater Ethanol LLC	MN0068586	Minnesota	Cottonwood River	07020008

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MNG490203 Minnesota MNG490067 Minnesota	Minnesota	
MNG490067 Minnesota	Minnesota	
	Minnesota	0702006
	40059838 Minnesota Redwood River	0702006
McLaughlin & Schulz Inc MNG490019 Minnesota Redwood River	Minnesota	07020006
Anderson Pit Watonwan River	Minnesota	07020010
Bituminous Materials LLC - Faribault MNG490004 Minor Tributaries Mississippi River - Lake Pepin	Minor Tributaries	e Pepin 07040001
Flint Hills RPB Airport & Wisconsin Pipelines MN0064696 Minor Tributaries Mississippi River - Lake Pepin	Minor Tributaries	e Pepin 07040001

49

Glander Sand & Gravel -James Haglund Pit	MNG4901.22	Minor Tributaries	Mississippi River - Lake Pepin	07040001
River City Asphalt Inc	MNG490149	Minor Tributaries	Mississippi River - Lake Pepin	07040001
Xcel - Red Wing Generating Plant	MN0000850	Minor Tributaries	Mississippi River - Lake Pepin	07040001
Sheryl's Construction Inc - Isle	MNG490199	St. Croix	Kettle River	01030003
Stafne Construction & Aggregate LLC	MNG490162	St. Crolx	Kettle River	07030003
Chisago County Highway Department	MNG490147	St. Croix	Lower St. Croix River	07030005
Blum Sand & Gravel	MNG490188	St. Croix	Snake River - St. Croix Basin	07030004
Ceinstone Products Co	MNG490133	St. Croix	Snake River - St. Croix Basin	07030004
Knife Lake Sand & Gravel	MNG49021.6	St. Crolx	Snake River - St. Croix Basin	07030004
Miller Pil	MNG490193	St. Croix	Snake River - St. Croix Basin	07030004
Pine City Township Gravel Pit	MNG490167	St. Croix	Snake River - St. Croix Basin	07030004
North Pine Aggregate - Fogt Rock Quarry	MNG490222	St. Croix	Upper St. Croix River	07030001
David Barrett Construction	MNG490120	Upper Mississippi	Crow Wing River	07010106
Long Construction Inc	MNG490074	Upper Mississippi	Crow Wing River	07010106
Rodney E Lof Co	MNG490180	Upper Mississippi	Crow Wing River	07010106
Central Specialties Inc	MNG490071	Upper Mississippi	Long Prairie River	07010108
Lakes Area Paving & Striping Inc	MNG490219	Upper Mississippi	Long Prairie River	07010108
Long Prairie WWTP - Industrial	MN0020303	Upper Mississippi	Long Prairie River	07010108
2	2	Tributary	-	
	Permit INUMBER	watersned	Major Watershed	HUC-8
Anderson Brothers Construction Co	MING490001	Upper Mississippi	Mississippi River - Brainerd	07010104
Crow Wing County Highway Department	MNG490198	Upper Mississippi	Misslssippi River - Brainerd	07010104
Gun Lake Sand & Gravel LLC	MNG490099	Upper Mississippi	Mississippi River - Brainerd	07010104
Kingsway Construction Inc	MNG490192	Upper Mississippi	Mississippi River - Brainerd	07010104
Marvin Tretter Inc	MNG490269	Upper Mississippi	Mississippi River - Sartelí	07010201
South Side Sand & Gravel	MNG490223	Upper Mississippi	Mississippi River - Sartell	07010201
Tri-City Paving Inc	MNG490039	Upper Mississippi	Mississippi River - Sartell	07010201
TTWOS Granite Supply Quarry LLC	MNG490165	Upper Mississippi	Mississippi River - Sartell	07010201
Annandale Rock Products Inc	MNG490022	Upper Mississippi	Mississippi River - St. Cloud	07010203

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50

South Metro Mississippi Watershed Final Revised TMDL Decision Document

i R. A. Mining	MNG490191	Upper Mississippi	Mississippi Riv e r – St. Cloud	0/010703
knie River Central Minnesota	MNG490003	Upper Mississippi	Mississippi River - St. Cloud	07010203
withos Sand & Gravel Inc	MNG490241	Upper Mississippi	Mississippi River - St. Cloud	07010203
NOTES JOINT & CARACE PH	MNG490217	Upper Mississippl	Mississippi River - St. Cloud	07010203
	MNG490244	Upper Mississippi	Mississippi River - St. Cloud	07010203
soldana Evravating & Aggregates/Granite	MNG490166	Upper Mississippi	Mississippi River - St. Cloud	07010203
setunidt Gravet Mine/Schuer Inc	MNG4901.48	Upper Mississippi	Mississippi River - St. Cloud	07010203
vali fo - Ropers	MNG490183	Upper Mississippi	Mississippi River - St. Cloud	07010203
Fahn Companies Inc	MNG490204	Upper Mississippi	North Fork Crow River	07010204
liardrives inc	MING490083	Upper Mississippi	North Fork Crow River	07010204
Ommun Brothers Inc St Michael	MNG490259	Upper Mississippi	North Fork Crow River	07010204
Olitarii alottaata teo oo o	MNG490250	Upper Mississippi	North Fork Crow River	07010204
r tuu tawa Abbi Abawaa ma	MNG490254	Upper Mississippi	Redeye River	07010107
Ottest tell 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	MNG490041	Upper Mississippi	Redeye River	07010107
	MNG490218	Upper Mississippi	Rum River	07010207
	NNNOA396	Under Mississippi	Rum River	07010207
Northern Lights 2009-2010 2016 EF			Cart's Divar	07010202
Cold Spring Granite - Plants	MN0062481			
Cold Spring Gramite Co	MNG490143	Upper Mississippi	Sauk River	7070T0/0
Mid Continent Asphalt	MNG490023	Upper Mississippi	Sauk River	707010/0
Winter Sand & Gravel	MNG490224	Upper Mississippi	Sauk River	07010202
	Permit Number	Tributary Watershed	Major Watershed	HUC-8
Name Allowed Dinaline FD	MN0064068	Upper Mississippl	South Fork Crow River	07010205
	MN0069663	Upper Mississippi	South Fork Crow River	07010205

afer Permits with TSS Limits < 32 mg/L Eligible for Future WLA Increase World Window A Wig

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A.4. Wisconsin Wastewater Feltitits with 100 Linute 202 mg/s 201 general		Tributary			WLA	WLA
	Dormit Number	Watershed	Major Watershed	HUC-8 (kg/year) (kg/day)	(kg/year)	(kg/day)
Name				07040001	34 348	63.97
Bolchwin W/W I'P	WI0026891	Minor Tributaries Kush-Vermillon	Kush-Verminiun	+>>>>>>>>>		
		ана стали и ст	buch Varmillan	07040001	6.051	16.58
	W10061255	Minor I ributaries Kusii-Verimiuu				

South Metro Mississippi Watershed Final Revised TMDL Decision Document

W10021253 Minor Tributaries W10022811 Minor Tributaries w10022403 Minor Tributaries oducts w100239781 St. Croix strict w10033781 St. Croix oducts w10033781 St. Croix strict w10033781 St. Croix oducts w10033781 St. Croix berative w10033039 St. Croix of w10033676 St. Croix of w10032639 St. Croix of w10023639 St. Croix of w10023639 St. Croix of w10023639 St. Croix U. New Richmond w10023639 St. Croix W10021243 St. Croix U W10021245 St. Croix U	or Tributaries Rush-Vermillion or Tributaries Rush-Vermillion or Tributaries Rush-Vermillion Crolx Lower St. Croix River Croix Lower St. Croix River	07040301 07040001 07040001 07040001 07030005 07030005 07030005 07030005 07030005 07030005 07030005 07030005	15,888 15,888 15,888 4,940 7,940 7,1056 7,173 7,173 7,173 7,326 7,325 9,325 9,325 9,325 7,744 7,744 7,744 7,7335 7,766 7,766 7,766 7,766 7,766 7,766 7,767 7,767 7,763 7,763 7,766 7,763	43.53 13.54 57.80 48.57 48.57 3.63 60.75 25.55 9.88 9.88 9.88 45.87 42.01
W1002281.1 Minor Tributaries w10022403 Minor Tributaries oducts w10033781 St. Croix strict w10033781. St. Croix oducts w10033781. St. Croix strict w100339781. St. Croix of w10033039 St. Croix berative w10039039 St. Croix of w10033039 St. Croix of w10035639 St. Croix of w10035639 St. Croix of w10023639 St. Croix of w10023639 St. Croix U. New Richmond w10023254 St. Croix W10024279 St. Croix U W10024279 St. Croix U W10021482 St. Croix U W10021482 St. Croix U	ributaries	07040001 07040001 07040001 07030005 07030005 07030005 07030005 07030005 07030005 07030005 07030005 07030005 07030005 07030005 07030005 07030005	4,940 21,096 21,096 17,728 1,326 22,173 9,325 9,325 9,325 9,325 3,606 3,606 15,335 15,335	13.54 57.80 57.80 48.57 3.63 60.75 55.55 9.88 9.88 45.87 42.01
wi0022403 Minor Tributaries oducts w10039781 St. Croix strict w10031861 St. Croix berative w1002125 St. Croix berative w10039781 St. Croix oducts w1002125 St. Croix berative w10039706 St. Croix of w10036706 St. Croix of w10023639 St. Croix of w10023639 St. Croix of w10023639 St. Croix iC. New Richmond w10023639 St. Croix iC. New Richmond w10021245 St. Croix w10021245 St. Croix I	lbutaries	07040001 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005 0703005	21,096 17,728 1,326 22,173 9,325 9,325 3,606 16,744 15,335 134,699	57.80 48.57 3.63 60.75 25.55 9.88 9.88 45.87 42.01
oducts W10039781 St. Croix strict W10031861 St. Croix berative W10031861 St. Croix berative W10039039 St. Croix of W10039039 St. Croix berative W10039039 St. Croix of W10036706 St. Croix of W10036706 St. Croix of W10036706 St. Croix of W10023639 St. Croix c. New Richmond W10023254 St. Croix C. New Richmond W10024279 St. Croix W10021482 St. Croix H W10021482 St. Croix H		07030005 07030005 07030005 07030005 07030005 07030005 07030005 07030005	17,728 1,326 22,173 9,325 9,325 3,606 16,744 15,335 134,699	48.57 3.63 60.75 25.55 9.88 45.87 42.01
strict Wi0031861 St. Croix perative Wi0020125 St. Croix perative Wi0036706 St. Croix of Wi0036706 St. Croix of Wi0023639 St. Croix of Wi0023639 St. Croix of Wi0023639 St. Croix of Wi0023639 St. Croix Ic. New Richmond Wi0024279 St. Croix Ic. New Richmond Wi0021482 St. Croix WTF Wi0021245 St. Croix		07030005 07030005 07030005 07030005 07030005 07030005 07030005	1,326 22,173 22,173 9,325 3,606 16,744 15,335 134,699	3.63 60.75 25.55 9.88 45.87 45.87
wI0020125 St. Croix perative wI0039039 St. Croix of wI0036706 St. Croix of wI0023639 St. Croix of wI0023639 St. Croix of wI0023639 St. Croix of wI0023639 St. Croix C. New Richmond wI0024279 St. Croix C. New Richmond wI0021482 St. Croix WTF wI0021245 St. Croix		07030005 07030005 07030005 07030005 07030005 07030005	22,173 9,325 9,325 3,606 16,744 15,335 134,699	60.75 25.55 9.88 45.87 42.01
perative W10039039 St. Croix of W10036706 St. Croix of W10023639 St. Croix of W10023639 St. Croix of W10023639 St. Croix Constraints W10023534 St. Croix Constraints W10024279 St. Croix Constraints W10024279 St. Croix M10024279 St. Croix N M10021482 St. Croix N M10021482 St. Croix N		07030005 07030005 07030005 07030005 07030005	9,325 3,606 16,744 15,335 134,699	25.55 9.88 45.87 42.01
w10036706 St. Croix of w10023639 St. Croix w100235354 St. Croix w100235354 St. Croix w100235354 St. Croix w100235354 St. Croix w100232354 St. Croix w10024279 St. Croix w10021345 St. Croix w1F w10021245 St. Croix		07030005 07030005 07030005 07030005	3,606 16,744 15,335 134,699	9.88 45.87 42.01
of W10023639 St. Croix W1002354 St. Croix W10024279 St. Croix UL W10021482 St. Croix WTF W10021245 St. Croix		07030005 07030005 07030005	16,744 15,335 134,699	45.87 42.01
WI0029254 St. Croix C. New Richmond W10024279 St. Croix M10002836 St. Croix W10002836 St. Croix W100021245 St. Croix		07030005	15,335 134,699	42.01
WI0024279 St. Croix C. New Richmond W10002836 St. Croix W10021482 St. Croix WTF W10021245 St. Croix		07030005	134,699	Contraction of the local division of the loc
IC. New Richmond WI0002836 St. Croix WI0021482 St. Croix WTF WI0021245 St. Croix				369.04
WI0021482 St. Croix WTF St. Croix St. Croix		07030005	4,360	24.22
WTF WI0021245 St. Croix	roix Lower St. Croix River	07030005	15,086	41.33
	roix Lower St. Croix River	07030005	71,701	196.44
Osceola, Village of Lower St. C	roix Lower St. Croix River	07030005	31,084	85.16
River Falls WWTP St. Croix Lower St. C	roix Lower St. Croix River	07030005	131,383	359.95
Somerset WWTF VI0030252 St. Croix Lower St. C	roix Lower St. Croix River	07030005	15,542	42.58
St Croix Falls, City of Lower St. C	roix Lower St. Croix River	07030005	20,557	56.32
Tributary	Tributary		WLA	WLA
Name Vatershed Vatershed	Watershed Major Watershed	HUC-8	(kg/year) ((kg/day)
Star Prairie WWTF W10060984 St. Croix Lower St. C	rolx Lower St. Croix River	07030005		17.49
T. Thompson Hatchery WI0049191 St. Croix Lower St. C	roix Lower St. Croix River	07030005	97,613	267.43
WI DNR Osceola Fish Hatchery WI0004197 St. Croix Lower St. C	roix Lower St. Croix River	07030005	48,906	133.99
WI DNR St. Croix Falls Hatchery WI0004201 St. Croix Lower St. C	roix Lower St. Croix River	07030005	15,208	41.67

52

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A.5. Wisconsin Wastewater Permits with TSS Limits > 32 mg/L Not Eligible for Future WLA Increase

A S. WISCONSIII, WASTEWAREI FEITING WITH LOUDINING 272 JUSC 202 JU					121 5	14/1 6
		Tributary			WLA	WLA
2	Permit Number	Watershed	Major Watershed	HUC-8	(kg/year) (kg/day)	(kg/day)
Name Maiden Rock		Minor Tributaries Rush-Vermillion	Rush-Vermillion	07040001	2,860	34.07
Webster Willing of Webster Willing of	W10028843	St. Crolx	Upper St. Croix River	07030001	10,569	173.73
			n jan Andrea and an Andrea and Andr	20006020		VC VU \$
Door Dark WWTF	W10025356	St. Croix	Lower St. Croix Hiver	cuuncu/u	1,74L	TO:1:0T
		· · · · · · · · · · · · · · · · · · ·			01010	776 69
Grantsburg, Village of	W10060429	St. Croix	Lower St. Croix River	connen/n	4/,240	00.077

South Metro Mississippi Watershed Final Revised TMDL Decision Document

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Appendix B: Regulated MS4 List

MS4ID	Name
MNR040000	Minnesota Phase II MS4s
WI-S050075-1	Wisconsin Phase II MS4s
*	Albertville MS4
MS400264	Alexandria City MS4
MS400073	Andover City MS4
MS400001	Anoka City MS4
MS400066	Anoka County MS4
M5400222	Anoka Technical College MS4
MI5400223	Anoka-Ramsey Community College M54
MIS400074	Apple Valley City MS4
MS400002	Arden Hills City MS4
₹.	Bałdwin Township MS4
MS400231	Baxter City MS4
ž	Bayport City MS4
MS400067	Benton County MS4
MIS400249	Big Lake City MS4
MS400234	Big Lake Township MS4
M5400075	Blaine City MS4
M5400005	Bloomington City MS4
*	Blue Earth County MS4
MS400266	Brainerd City MS4
MI5400068	Brockway Township MS4

South Metro Mississippi Watershed Final Revised TMDL Decision Document

MI\$400006	Brooklyn Center City MS4
MS400007	Brooklyn Park City MS4
M\$400238	Buffalo city of MS4
MS400069	Burns Township MS4
MIS4ID	Name
MS400076	Burnsville City MS4
M\$400250	Cambridge City MS4
M\$400206	Capitol Region WD MS4
M5400077	Carver City MS4
M\$400070	Carver County MS4
M5400078	Centerville City MS4
M5400171	Century College MS4
MS400008	Champlin City MS4
M\$400079	Chanhassen City MS4
MS400080	Chaska City MS4
M\$400009	Circle Pines City MS4
MS400010	Columbia Heights City MS4
M\$400172	Coon Creek WD MS4
M5400011	Coon Rapids City MS4
M5400081	Corcoran City MS4
MS400082	Cottage Grove City MS4
MS400131	Credit River Township MS4
M5400012	Crystal City M54
MS400132	Dakota County MS4
M5400254	Dakota County Technical College MS4

MS400083	
MS400013	Deephaven City MS4
MS400084	Dellwood City MS4
MS400014	Eagan City MS4
*	Eagle Lake City MS4
MS400087	East Bethel City MS4
MS400015	Eden Prairie City MS4
MS400016	Edina City MS4
MS400089	Elk River City MS4
MS4ID	Name
MS400237	Elko-New Market City MS4
MS400135	Empire Township MS4
MS400017	Excelsion City MS4
M5400239	Fairmont City MS4
MS400018	Falcon Heights City MS4
M5400233	Faribault City MS4
MS400090	Farmington City MS4
MS400175	Federal Medical Center MS4
MS400262	Forest Lake MS4
MS400019	Fridley City MS4
MIS400020	Gem Lake City M54
MS400252	Glencoe City MS4
MS400021	Golden Valley City M54
MS400091	Grant City MS4
MS400022	Greenwood City MS4

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South Metro Mississippi Watershed Final Revised TMDL Decision Document

	Ham Lake City MS4
M5400092	
*	Hanover City MS4
MS400240	Hastings City MS4
MS400136	Haven Township MS4
MS400138	Hennepin County MS4
MS400198	Hennepin Technical College Brooklyn Pk - MS4
MS400199	Hennepin Technical College Eden Prairie MS4
MS400023	Hilltop City M54
MS400024	Hopkins City M54
MS400094	Hugo City M54
	Hutchinson City MS4
MS400095	Independence City MS4
MIS400096	Inver Grove Heights City MS4
MS400224	Inver Hills Community College MS4
MS4ID	Name
*	Isanti City MS4
MS400140	Jackson Township MS4
*	Lake City MS4
MIS400098	Lake Elmo City MS4
M54001.42	Laketown Township MS4
MS/10/099	Lakeville City MS4
M5400025	Landfall City MS4
MS400026	Lauderdale City MS4
MS400143	Le Sauk Township M54
MIS400027	Lexington City MS4

M5400028	Lilydale City MS4
MS400100	Lino Lakes City MS4
M5400253	Litchfield City MS4
MS400029	Little Canada City MS4
MS400227	Little Falls City MS4
MS400101	Long Lake City MS4
MIS400030	Loretto City MS4
MIS4001.44	Louisville Township MS4
MS400031	Mahtomedi City MS4
MS400226	Mankato City MS4
*	Mankato Township MS4
MS400102	Maple Grove City MS4
M\$400103	Maple Plain City MS4
MIS400032	Maplewood City MS4
MS400241	Marshall City MS4
MS400104	Medicine Lake City MS4
MS400105	Medina City MS4
MS400033	Mendota City MS4
MS400034	Mendota Heights City MS4
CIESTA	
MS400201	Metropolitan State University - MS4
M54001.46	Midway Township MS4
MS400147	Minden Township MS4
MN0061018	Minneapolis Municipal Storm Water

South Metro Mississippi Watershed Final Revised TMDL Decision Document

58

Minnehaha Creek WD M54

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