

City of Whitewater TMDL Compliance Summary

TMDL Reach Number and Name: Rock River TMDL, Reach 59

MS4 Existing Controls Percent Reductions needed (no controls): 49% (TSS); 66% (TP)

MS4 Existing Controls Percent Reduction (year 2016): 47.7% (TSS); 37.1% (TP)

Modeled MS4 Annual Average Pollutant Load (no controls): 561,670 lbs/yr (TSS); 1,538.9 lbs/yr (TP)

Modeled MS4 Annual Average Pollutant Load (existing controls): 293,521 lbs/yr (TSS); 967.8 lbs/yr (TP)

Pollutant	TMDL Pollutant Reduction Gap (%)	TMDL Pollutant Reduction Gap (lbs)
TSS	1.3%	7,067
TP	28.8%	444.6

Alternative 5

Benchmark (BM)	Description of BM Measure	Apply from UNPS Construction Grant Year	UNPS Construction Grant Monies Available	Outfalls Affected by BM Control	Affected Drainage Areas (as modeled)	Implementation Date	Additional TSS Removed (lbs)	Additional TP Removed (lbs)	BM TSS% Reduction toward TMDL	BM TP% Reduction toward TMDL	BMP Construction Cost (2017 \$)	BMP Cost (20-Year NPW)	20-Year NPW Cost-Effectiveness (\$/lb TP)
N/A	Existing control measures	N/A	N/A	All	All	Ongoing	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	TP Credit for Leaf Management Programs Analysis					2020	N/A	TBD		TBD	TBD	TBD	TBD
2	WQT, WAM, and WQT with WWTF joint study	N/A	N/A	All	All	2020	TBD	TBD		TBD	TBD	TBD	TBD
3	Vacuum Street Sweeping, Existing Frequencies (Include Purchase Vacuum Street Sweeper)	2020	2021	All	All	2021	284,775	30.9	50.7%	2.0%	\$284,299		
4	Ordinance Revision-Higher Redevelopment Standard (80%)	N/A	N/A	Varies	Varies	2020	7,372	16.2	1.3%	1.1%	TBD	N/A	N/A
5	W. South St. Wet Detention Basin	2020	2021	SB-3.2-1, SB-3.2-2	SB-3.2, SB-4	2021	9,674	23.9	1.7%	1.6%	\$271,750	\$354,017	\$741
6	Armory Site-Business Park	2024	2025	WC-32.2, WC-40.2	WC-32.2, WC-33.1	2025	11,277	17.2	2.0%	1.1%	\$493,125	\$657,215	\$1,911
7	Starin Rd-Starin Park Underground Wet Detention Basin	2028	2029	WC-5.1	WC-5.1 CITY	2029	7,246	16.7	1.3%	1.1%	\$493,125	\$669,641	\$2,075
8	Agricultural WQT (Interim Credits)	N/A	N/A	All	All	2030	TBD	339.3	TBD	22.0%	TBD	\$722,980	\$110
9	Public Works Yard Hydrodynamic Separator	2032	2033	WC-7	WC-7	2033	165	0.4	0.03%	0.03%	\$44,875	\$89,552	\$11,194
						Total	320,509	444.6	57.1%	28.9%			