

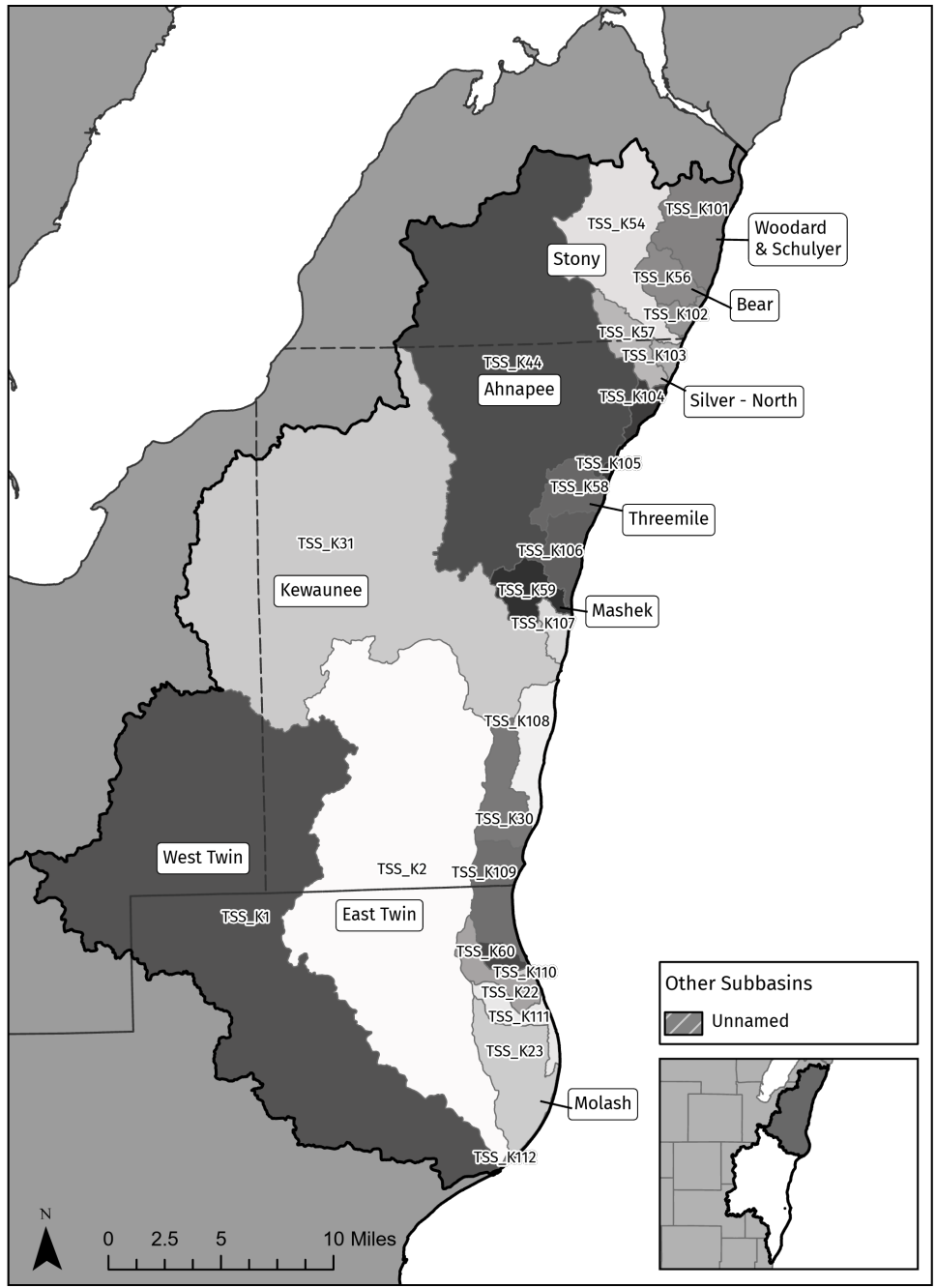
# Appendix L: Northeast Lakeshore TMDL Allocation Tables

## Total Suspended Solids

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**Door/Kewaunee Region**



## Total Suspended Solids Annual Allocations

Table L.K.1. Annual total suspended solids load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	<b>Total (LA+WLA+RC) (ton/year)</b>	<b>LA (BG+Ag+NPU) (ton/year)</b>	BG (ton/year)	Agric. (ton/year)	NPU (ton/year)	<b>WLA (GP+MS4+IP) (ton/year)</b>	GP (ton/year)	MS4 (ton/year)	IP (ton/year)	<b>RC (ton/year)</b>
TSS_K1	<b>7,069</b>	<b>6,649</b>	637	5,968	44	<b>98</b>	64	2.5	32	<b>322</b>
TSS_K2	<b>3,494</b>	<b>3,276</b>	219	3,040	17	<b>54</b>	33	2.9	19	<b>164</b>
TSS_K22	<b>164</b>	<b>154</b>	4.3	149	0.79	<b>1.6</b>	1.6	0	0	<b>8</b>
TSS_K23	<b>188</b>	<b>177</b>	10	165	1.4	<b>2.5</b>	1.8	0.7	0	<b>8.9</b>
TSS_K30	<b>304</b>	<b>286</b>	3.2	282	1	<b>3</b>	3	0	0	<b>15</b>
TSS_K31	<b>932</b>	<b>874</b>	50	816	7.3	<b>12</b>	8.8	0	3.3	<b>44</b>
TSS_K44	<b>599</b>	<b>552</b>	25	517	9.6	<b>24</b>	5.7	0	18	<b>29</b>
TSS_K54	<b>159</b>	<b>150</b>	16	132	1.5	<b>1.4</b>	1.4	0	0	<b>7.1</b>
TSS_K56	<b>65</b>	<b>61</b>	8.7	52	0.62	<b>0.56</b>	0.56	0	0	<b>2.8</b>
TSS_K57	<b>31</b>	<b>30</b>	1.9	27	0.28	<b>0.3</b>	0.3	0	0	<b>1.5</b>
TSS_K58	<b>64</b>	<b>61</b>	7.9	51	2	<b>0.56</b>	0.56	0	0	<b>2.8</b>
TSS_K59	<b>94</b>	<b>89</b>	2.7	85	0.71	<b>0.91</b>	0.91	0	0	<b>4.6</b>
TSS_K60	<b>64</b>	<b>60</b>	2.3	56	1.1	<b>0.61</b>	0.61	0	0	<b>3.1</b>
TSS_K101	<b>162</b>	<b>153</b>	7.9	143	1.7	<b>1.5</b>	1.5	0	0	<b>7.7</b>
TSS_K102	<b>19</b>	<b>18</b>	2	16	0.42	<b>0.17</b>	0.17	0	0	<b>0.86</b>
TSS_K103	<b>8.1</b>	<b>7.6</b>	0.8	6.7	0.18	<b>0.07</b>	0.07	0	0	<b>0.36</b>
TSS_K104	<b>15</b>	<b>14</b>	0.59	12	1.3	<b>0.14</b>	0.14	0	0	<b>0.7</b>
TSS_K105	<b>2.2</b>	<b>2.1</b>	0.12	0.22	1.7	<b>0.02</b>	0.02	0	0	<b>0.1</b>
TSS_K106	<b>174</b>	<b>164</b>	2.7	159	1.9	<b>1.7</b>	1.7	0	0	<b>8.6</b>
TSS_K107	<b>66</b>	<b>62</b>	1.8	59	1.7	<b>0.64</b>	0.64	0	0	<b>3.2</b>
TSS_K108	<b>277</b>	<b>260</b>	4.9	250	5	<b>2.9</b>	2.9	0	0	<b>14</b>
TSS_K109	<b>351</b>	<b>331</b>	17	311	3.3	<b>3.3</b>	3.3	0	0	<b>17</b>
TSS_K110	<b>8.4</b>	<b>7.9</b>	0.26	7.6	0.11	<b>0.08</b>	0.08	0	0	<b>0.41</b>
TSS_K111	<b>73</b>	<b>69</b>	4.6	62	2.5	<b>0.69</b>	0.69	0	0	<b>3.4</b>
TSS_K112	<b>2.3</b>	<b>0.74</b>	0	0	0.74	<b>1.5</b>	0.02	1.5	0	<b>0.12</b>

## Total Suspended Solids Daily Allocations

Table L.K.2. Daily total suspended solids load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	<b>Total (LA+WLA+RC) (ton/day)</b>	<b>LA (BG+Ag+NPU) (ton/day)</b>	BG (ton/day)	Agric. (ton/day)	NPU (ton/day)	<b>WLA (GP+MS4+IP) (ton/day)</b>	GP (ton/day)	MS4 (ton/day)	IP (ton/day)	<b>RC (ton/day)</b>
TSS_K1	<b>19.3531</b>	<b>18.2031</b>	1.7447	16.3386	0.1198	<b>0.2696</b>	0.1761	0.0069	0.0866	<b>0.8804</b>
TSS_K2	<b>9.5673</b>	<b>8.9700</b>	0.6009	8.3232	0.0459	<b>0.1490</b>	0.0897	0.0080	0.0513	<b>0.4483</b>
TSS_K22	<b>0.4485</b>	<b>0.4223</b>	0.0117	0.4084	0.0022	<b>0.0044</b>	0.0044	0	0	<b>0.0218</b>
TSS_K23	<b>0.5159</b>	<b>0.4848</b>	0.0283	0.4526	0.0039	<b>0.0068</b>	0.0049	0.0019	0	<b>0.0244</b>
TSS_K30	<b>0.8322</b>	<b>0.7828</b>	0.0087	0.7713	0.0028	<b>0.0082</b>	0.0082	0	0	<b>0.0412</b>
TSS_K31	<b>2.5528</b>	<b>2.3934</b>	0.1380	2.2353	0.0201	<b>0.0331</b>	0.0241	0	0.0090	<b>0.1207</b>
TSS_K44	<b>1.6399</b>	<b>1.5108</b>	0.0677	1.4168	0.0263	<b>0.0658</b>	0.0157	0	0.0501	<b>0.0786</b>
TSS_K54	<b>0.4345</b>	<b>0.4111</b>	0.0441	0.3627	0.0042	<b>0.0039</b>	0.0039	0	0	<b>0.0195</b>
TSS_K56	<b>0.1774</b>	<b>0.1682</b>	0.0238	0.1427	0.0017	<b>0.0015</b>	0.0015	0	0	<b>0.0077</b>
TSS_K57	<b>0.0859</b>	<b>0.0811</b>	0.0051	0.0752	0.0008	<b>0.0008</b>	0.0008	0	0	<b>0.0040</b>
TSS_K58	<b>0.1759</b>	<b>0.1667</b>	0.0217	0.1396	0.0055	<b>0.0015</b>	0.0015	0	0	<b>0.0077</b>
TSS_K59	<b>0.2574</b>	<b>0.2424</b>	0.0074	0.2330	0.0020	<b>0.0025</b>	0.0025	0	0	<b>0.0125</b>
TSS_K60	<b>0.1740</b>	<b>0.1639</b>	0.0064	0.1545	0.0031	<b>0.0017</b>	0.0017	0	0	<b>0.0084</b>
TSS_K101	<b>0.4442</b>	<b>0.4188</b>	0.0215	0.3926	0.0047	<b>0.0042</b>	0.0042	0	0	<b>0.0211</b>
TSS_K102	<b>0.0526</b>	<b>0.0498</b>	0.0053	0.0433	0.0012	<b>0.0005</b>	0.0005	0	0	<b>0.0024</b>
TSS_K103	<b>0.0221</b>	<b>0.0209</b>	0.0022	0.0183	0.0005	<b>0.0002</b>	0.0002	0	0	<b>0.0010</b>
TSS_K104	<b>0.0397</b>	<b>0.0374</b>	0.0016	0.0322	0.0036	<b>0.0004</b>	0.0004	0	0	<b>0.0019</b>
TSS_K105	<b>0.0060</b>	<b>0.0056</b>	0.0003	0.0006	0.0047	<b>0.0001</b>	0.0001	0	0	<b>0.0003</b>
TSS_K106	<b>0.4766</b>	<b>0.4484</b>	0.0073	0.4359	0.0052	<b>0.0047</b>	0.0047	0	0	<b>0.0235</b>
TSS_K107	<b>0.1806</b>	<b>0.1700</b>	0.0050	0.1604	0.0046	<b>0.0018</b>	0.0018	0	0	<b>0.0088</b>
TSS_K108	<b>0.7587</b>	<b>0.7112</b>	0.0134	0.6842	0.0136	<b>0.0079</b>	0.0079	0	0	<b>0.0396</b>
TSS_K109	<b>0.9619</b>	<b>0.9070</b>	0.0473	0.8507	0.0091	<b>0.0091</b>	0.0091	0	0	<b>0.0457</b>
TSS_K110	<b>0.0231</b>	<b>0.0217</b>	0.0007	0.0207	0.0003	<b>0.0002</b>	0.0002	0	0	<b>0.0011</b>
TSS_K111	<b>0.2009</b>	<b>0.1896</b>	0.0127	0.1700	0.0069	<b>0.0019</b>	0.0019	0	0	<b>0.0094</b>
TSS_K112	<b>0.0064</b>	<b>0.0020</b>	0	0	0.0020	<b>0.0041</b>	0.0001	0.0040	0	<b>0.0003</b>

## Total Suspended Solids Allocations by Permitted Point Source

Table L.K.3. Total suspended solids wasteload allocations for each individual permitted point source.

Reach	Permit no.	Outfall no.	Name	Allocation (lbs/year)	Allocation (lbs/day)
TSS_K2	50237	9	AGROPUR INC. - LUXEMBURG	41,387	113.3127
TSS_K44	20745	1	ALGOMA WASTEWATER TREATMENT FACILITY	36,578	100.1447
TSS_K1	51128	7	BELGIOIOSO CHEESE, INC. - DENMARK	23,332	63.8786
TSS_K31	23566	1	CASCO WASTEWATER TREATMENT FACILITY	6,547	17.9259
TSS_K1	21741	1	DENMARK WASTEWATER TREATMENT FACILITY	35,573	97.3942
TSS_K44	28894	1	FORESTVILLE WASTEWATER TREATMENT FACILITY	10,916	29.8852
TSS_K31	20176	1	KEWAUNEE WASTEWATER TREATMENT FACILITY	49,332	135.0630
TSS_K1	35874	1	KOSSUTH SANITARY DISTRICT NO. 2 WWTF	1,990	5.4493
TSS_K1	61051	2	MARIBEL WASTEWATER TREATMENT FACILITY	2,355	6.4467
TSS_K1	64629	6	NEW ORGANIC DIGESTION LLC	8.7	0.0239

## Total Suspended Solids Allocations by MS4

Table L.K.4. Total suspended solids wasteload allocations for each permitted MS4 and the reaches they drain to.

Municipality	Reach	Area (acres)	Allocation (lbs/year)	Allocation (lbs/day)	Reduction from baseline (%)	Reduction from no-controls (%)
City of Manitowoc	TSS_K1	11	30	0.082	20	36
City of Two Rivers	TSS_K1	1,806	5,010	13.717	20	36
City of Two Rivers	TSS_K2	1,099	5,866	16.060	0	20
City of Two Rivers	TSS_K23	404	1,396	3.823	0	20
City of Two Rivers	TSS_K112	144	2,922	8.000	0	20

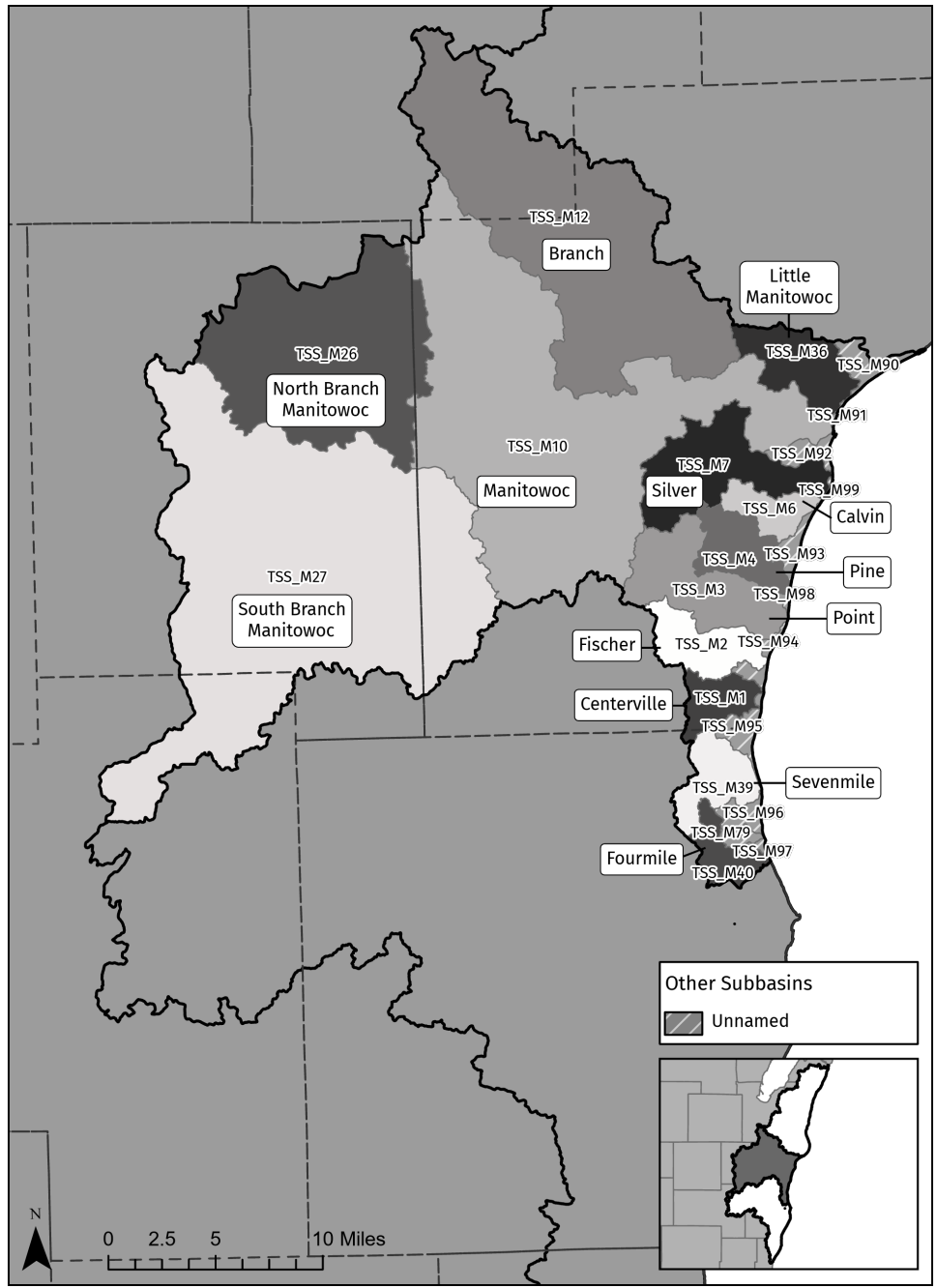
## Total Suspended Solids Percent Reductions

Table L.K.5. Total suspended solids reductions from baseline.

Reach	Reach description	Percent reduction (%)	Load reduction (tons/year)
TSS_K1	West Twin River	19.5	1,466
TSS_K2	East Twin River	0.0	0
TSS_K22	Unnamed	0.0	0
TSS_K23	Molash Creek	0.0	0
TSS_K30	Unnamed	0.0	0
TSS_K31	Kewaunee River	0.0	0
TSS_K44	Ahnapee River	0.0	0
TSS_K54	Stony Creek	0.0	0
TSS_K56	Bear Creek	0.0	0
TSS_K57	Silver Creek (North)	0.0	0
TSS_K58	Threemile Creek	0.0	0
TSS_K59	Mashek Creek	0.0	0
TSS_K60	Unnamed	0.0	0
TSS_K101	Woodard and Schulyer Creeks	0.0	0
TSS_K102	Unnamed	0.0	0
TSS_K103	Unnamed	0.0	0
TSS_K104	Unnamed	0.0	0
TSS_K105	Unnamed	0.0	0
TSS_K106	Unnamed	0.0	0
TSS_K107	Unnamed	0.0	0
TSS_K108	Unnamed	0.0	17
TSS_K109	Unnamed	28.2	123
TSS_K110	Unnamed	0.0	0
TSS_K111	Unnamed	0.0	0
TSS_K112	Unnamed	0.0	0



# Manitowoc River Basin Region



## Total Suspended Solids Annual Allocations

Table L.M.1. Annual total suspended solids load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	<b>Total (LA+WLA+RC) (ton/year)</b>	<b>LA (BG+Ag+NPU) (ton/year)</b>	BG (ton/year)	Agric. (ton/year)	NPU (ton/year)	<b>WLA (GP+MS4+IP) (ton/year)</b>	GP (ton/year)	MS4 (ton/year)	IP (ton/year)	<b>RC (ton/year)</b>
TSS_M1	<b>66</b>	<b>62</b>	14	46	1.9	<b>0.51</b>	0.51	0	0	<b>2.6</b>
TSS_M2	<b>116</b>	<b>110</b>	12	97	0.95	<b>1</b>	1	0	0	<b>5.2</b>
TSS_M3	<b>214</b>	<b>206</b>	93	112	1.1	<b>1.2</b>	1.2	0	0	<b>6</b>
TSS_M4	<b>106</b>	<b>101</b>	26	74	1.7	<b>0.81</b>	0.8	0	0	<b>4</b>
TSS_M6	<b>64</b>	<b>62</b>	27	34	1.1	<b>0.38</b>	0.38	0	0	<b>1.9</b>
TSS_M7	<b>253</b>	<b>240</b>	76	161	2.8	<b>4.5</b>	1.8	1.9	0.77	<b>8.8</b>
TSS_M10	<b>1,587</b>	<b>1,476</b>	438	1,026	12	<b>44</b>	11	5.2	27	<b>57</b>
TSS_M12	<b>1,078</b>	<b>1,024</b>	231	789	4	<b>12</b>	8.5	0	3.4	<b>42</b>
TSS_M26	<b>831</b>	<b>780</b>	92	679	9.4	<b>14</b>	7.4	0	6.8	<b>37</b>
TSS_M27	<b>1,796</b>	<b>1,650</b>	119	1,518	13	<b>68</b>	17	0.01	51	<b>84</b>
TSS_M36	<b>131</b>	<b>119</b>	21	96	2	<b>6.1</b>	1.1	5	0	<b>5.5</b>
TSS_M39	<b>96</b>	<b>91</b>	6.2	83	1.4	<b>0.9</b>	0.9	0	0	<b>4.5</b>
TSS_M40	<b>63</b>	<b>57</b>	4.2	51	1.8	<b>3.6</b>	0.59	3	0	<b>3</b>
TSS_M79	<b>13</b>	<b>11</b>	0.78	8.5	2	<b>0.65</b>	0.12	0	0.54	<b>0.59</b>
TSS_M90	<b>14</b>	<b>10</b>	1	8.6	0.74	<b>3</b>	0.13	2.8	0	<b>0.65</b>
TSS_M91	<b>2.4</b>	<b>0</b>	0	0	0	<b>2.3</b>	0.02	2.2	0	<b>0.12</b>
TSS_M92	<b>15</b>	<b>0.71</b>	0.71	0	0	<b>13</b>	0.14	13	0	<b>0.7</b>
TSS_M93	<b>15</b>	<b>14</b>	0.53	13	0.57	<b>0.15</b>	0.15	0	0	<b>0.73</b>
TSS_M94	<b>4.1</b>	<b>3.8</b>	0.4	3.1	0.33	<b>0.04</b>	0.04	0	0	<b>0.18</b>
TSS_M95	<b>36</b>	<b>34</b>	0.95	31	1.2	<b>0.35</b>	0.35	0	0	<b>1.7</b>
TSS_M96	<b>21</b>	<b>20</b>	2.4	17	0.6	<b>0.19</b>	0.19	0	0	<b>0.94</b>
TSS_M97	<b>1.7</b>	<b>1.5</b>	0.07	1.1	0.38	<b>0.05</b>	0.02	0.03	0	<b>0.08</b>
TSS_M98	<b>3</b>	<b>2.8</b>	0.31	2.4	0.14	<b>0.03</b>	0.03	0	0	<b>0.13</b>
TSS_M99	<b>1.3</b>	<b>1.2</b>	0.5	0	0.73	<b>0.04</b>	0.01	0.04	0	<b>0.04</b>

## Total Suspended Solids Daily Allocations

Table L.M.2. Daily total suspended solids load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	<b>Total (LA+WLA+RC) (ton/day)</b>	<b>LA (BG+Ag+NPU) (ton/day)</b>	BG (ton/day)	Agric. (ton/day)	NPU (ton/day)	<b>WLA (GP+MS4+IP) (ton/day)</b>	GP (ton/day)	MS4 (ton/day)	IP (ton/day)	<b>RC (ton/day)</b>
TSS_M1	<b>0.1794</b>	<b>0.1710</b>	0.0392	0.1267	0.0051	<b>0.0014</b>	0.0014	0	0	<b>0.0070</b>
TSS_M2	<b>0.3184</b>	<b>0.3013</b>	0.0320	0.2666	0.0026	<b>0.0029</b>	0.0029	0	0	<b>0.0143</b>
TSS_M3	<b>0.5850</b>	<b>0.5652</b>	0.2547	0.3074	0.0030	<b>0.0033</b>	0.0033	0	0	<b>0.0165</b>
TSS_M4	<b>0.2911</b>	<b>0.2779</b>	0.0710	0.2022	0.0047	<b>0.0022</b>	0.0022	0	0	<b>0.0110</b>
TSS_M6	<b>0.1758</b>	<b>0.1696</b>	0.0728	0.0938	0.0029	<b>0.0010</b>	0.0010	0	0	<b>0.0051</b>
TSS_M7	<b>0.6925</b>	<b>0.6561</b>	0.2080	0.4404	0.0077	<b>0.0122</b>	0.0048	0.0053	0.0021	<b>0.0242</b>
TSS_M10	<b>4.3444</b>	<b>4.0400</b>	1.1994	2.8080	0.0326	<b>0.1204</b>	0.0314	0.0142	0.0748	<b>0.1572</b>
TSS_M12	<b>2.9512</b>	<b>2.8029</b>	0.6330	2.1590	0.0109	<b>0.0324</b>	0.0232	0	0.0092	<b>0.1159</b>
TSS_M26	<b>2.2760</b>	<b>2.1360</b>	0.2515	1.8588	0.0257	<b>0.0388</b>	0.0202	0	0.0185	<b>0.1012</b>
TSS_M27	<b>4.9177</b>	<b>4.5167</b>	0.3248	4.1574	0.0344	<b>0.1856</b>	0.0459	0	0.1396	<b>0.2296</b>
TSS_M36	<b>0.3574</b>	<b>0.3258</b>	0.0574	0.2630	0.0054	<b>0.0166</b>	0.0030	0.0136	0	<b>0.0150</b>
TSS_M39	<b>0.2642</b>	<b>0.2493</b>	0.0170	0.2284	0.0039	<b>0.0025</b>	0.0025	0	0	<b>0.0124</b>
TSS_M40	<b>0.1732</b>	<b>0.1553</b>	0.0114	0.1389	0.0050	<b>0.0098</b>	0.0016	0.0082	0	<b>0.0081</b>
TSS_M79	<b>0.0343</b>	<b>0.0309</b>	0.0021	0.0233	0.0055	<b>0.0018</b>	0.0003	0	0.0015	<b>0.0016</b>
TSS_M90	<b>0.0384</b>	<b>0.0285</b>	0.0028	0.0236	0.0020	<b>0.0082</b>	0.0004	0.0078	0	<b>0.0018</b>
TSS_M91	<b>0.0066</b>	<b>0</b>	0	0	0	<b>0.0062</b>	0.0001	0.0062	0	<b>0.0003</b>
TSS_M92	<b>0.0405</b>	<b>0.0020</b>	0.0020	0	0	<b>0.0366</b>	0.0004	0.0362	0	<b>0.0019</b>
TSS_M93	<b>0.0412</b>	<b>0.0388</b>	0.0014	0.0358	0.0016	<b>0.0004</b>	0.0004	0	0	<b>0.0020</b>
TSS_M94	<b>0.0111</b>	<b>0.0105</b>	0.0011	0.0085	0.0009	<b>0.0001</b>	0.0001	0	0	<b>0.0005</b>
TSS_M95	<b>0.0978</b>	<b>0.0920</b>	0.0026	0.0862	0.0032	<b>0.0010</b>	0.0010	0	0	<b>0.0048</b>
TSS_M96	<b>0.0582</b>	<b>0.0551</b>	0.0066	0.0468	0.0016	<b>0.0005</b>	0.0005	0	0	<b>0.0026</b>
TSS_M97	<b>0.0045</b>	<b>0.0042</b>	0.0002	0.0030	0.0010	<b>0.0001</b>	0	0.0001	0	<b>0.0002</b>
TSS_M98	<b>0.0081</b>	<b>0.0077</b>	0.0009	0.0064	0.0004	<b>0.0001</b>	0.0001	0	0	<b>0.0004</b>
TSS_M99	<b>0.0036</b>	<b>0.0034</b>	0.0014	0	0.0020	<b>0.0001</b>	0	0.0001	0	<b>0.0001</b>

## Total Suspended Solids Allocations by Permitted Point Source

Table L.M.3. Total suspended solids wasteload allocations for each individual permitted point source.

Reach	Permit no.	Outfall no.	Name	Allocation (lbs/year)	Allocation (lbs/day)
TSS_M10	66257	1	BRIESS MALT AND INGREDIENTS CO	29,122	79.7319
TSS_M10	20443	1	BRILLION WASTEWATER TREATMENT FACILITY	25,897	70.9025
TSS_M27	22799	2	CHILTON WASTEWATER TREATMENT FACILITY	43,491	119.0721
TSS_M10	36030	1	CLARKS MILLS SANITARY DISTRICT	973	2.6641
TSS_M26	21270	1	HILBERT WASTEWATER TREATMENT FACILITY	11,924	32.6472
TSS_M7	28142	1	HOLY FAMILY CONVENT WASTEWATER TREATMENT FAC	1,536	4.2061
TSS_M79	795	1	KOHLER COMPANY POWER SYSTEMS AMERICAS	1,073	2.9389
TSS_M12	36773	1	MORRISON SANITARY DISTRICT NO 1	1,910	5.2288
TSS_M27	20893	1	NEW HOLSTEIN WASTEWATER TREATMENT FACILITY	48,649	133.1925
TSS_M4	42650	1	NEWTON MEATS AND SAUSAGE	4.7	0.0128
TSS_M26	29025	1	POTTER WASTEWATER TREATMENT FACILITY	1,617	4.4260
TSS_M10	21342	2	REEDSVILLE WASTEWATER TREATMENT FACILITY	11,241	30.7771
TSS_M10	22802	1	ROCKLAND SD1 WASTEWATER TREATMENT FACILITY	1,351	3.7002
TSS_M10	22195	1	ST NAZIANZ WASTEWATER TREATMENT FACILITY	7,316	20.0289
TSS_M27	27618	1	TILLAMOOK WISCONSIN LLC	9,828	26.9088
TSS_M10	21831	1	VALDERS WASTEWATER TREATMENT FACILITY	10,159	27.8131
TSS_M12	22047	1	WHITELAW WASTEWATER TREATMENT FACILITY	4,841	13.2529

## Total Suspended Solids Allocations by MS4

Table L.M.4. Total suspended solids wasteload allocations for each permitted MS4 and the reaches they drain to.

Municipality	Reach	Area (acres)	Allocation (lbs/year)	Allocation (lbs/day)	Reduction from baseline (%)	Reduction from no-controls (%)
City of Manitowoc	TSS_M7	1,790	3,842	10.518	74	79
City of Manitowoc	TSS_M10	3,904	10,378	28.413	70	76
Town of Taycheedah	TSS_M27	4,388	27	0.073	71	77
City of Manitowoc	TSS_M36	3,367	9,944	27.226	58	67
City of Sheboygan	TSS_M40	143	415	1.136	59	67
Town of Sheboygan	TSS_M40	1,916	5,546	15.183	59	67
City of Manitowoc	TSS_M90	539	2,506	6.860	0	20
City of Two Rivers	TSS_M90	687	3,190	8.734	0	20
City of Manitowoc	TSS_M91	145	4,499	12.317	37	50
City of Manitowoc	TSS_M92	1,753	26,449	72.414	0	20
Town of Sheboygan	TSS_M97	8	66	0.180	0	20
City of Manitowoc	TSS_M99	31	71	0.195	13	31

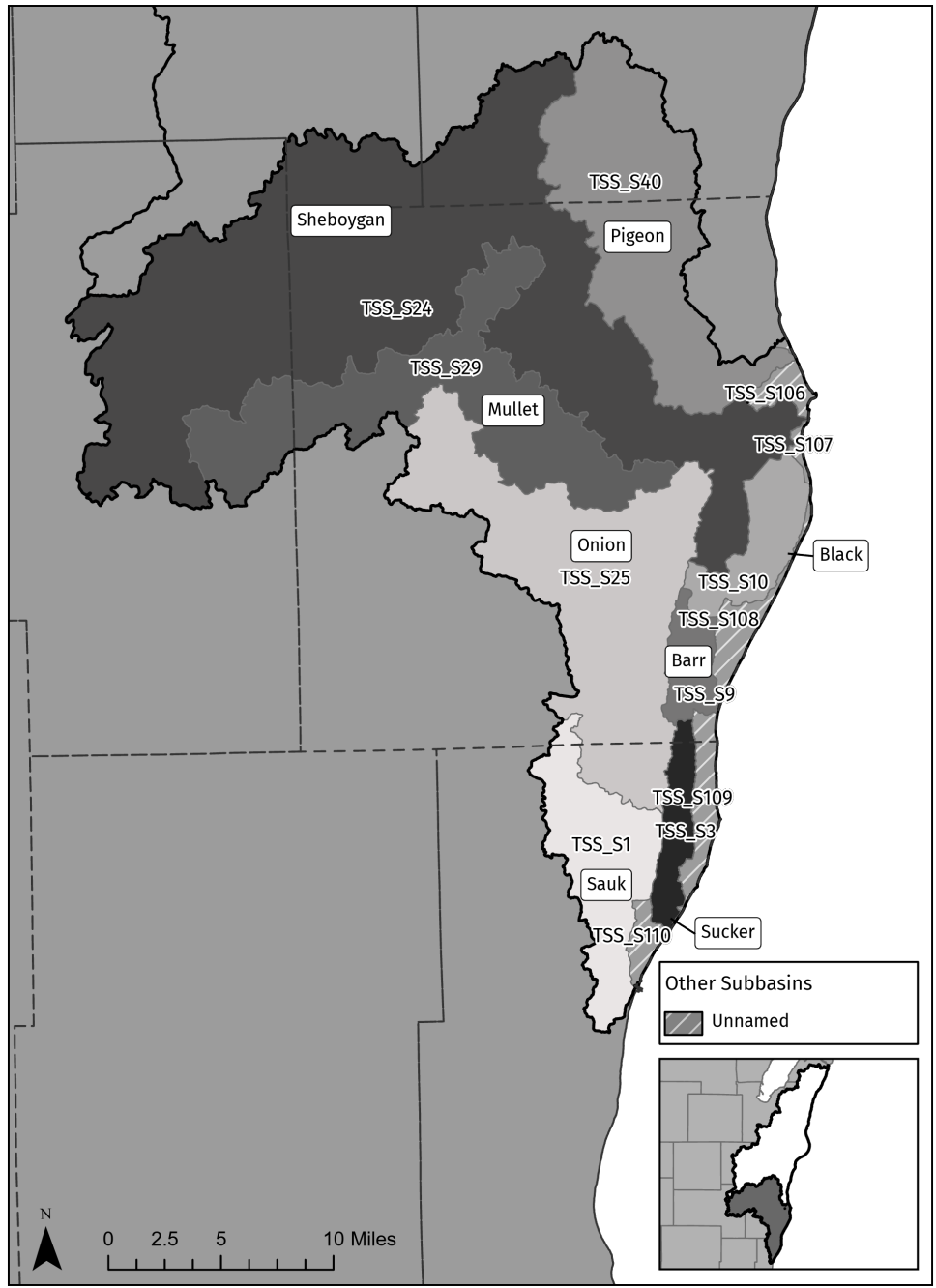
## Total Suspended Solids Percent Reductions

Table L.M.5. Total suspended solids reductions from baseline.

Reach	Reach description	Percent reduction (%)	Load reduction (tons/year)
TSS_M1	Centerville Creek	72.4	126
TSS_M2	Fischer Creek	70.5	234
TSS_M3	Point Creek	77.9	399
TSS_M4	Pine Creek	77.2	255
TSS_M6	Calvin Creek	68.6	77
TSS_M7	Silver Creek	74.1	475
TSS_M10	Manitowoc River	70.4	2,573
TSS_M12	Branch River	72.4	2,084
TSS_M26	North Branch Manitowoc River	58.3	972
TSS_M27	South Branch Manitowoc River	71.1	3,878
TSS_M36	Little Manitowoc River	58.2	143
TSS_M39	Sevenmile Creek	76.0	269
TSS_M40	Fourmile Creek	58.9	79
TSS_M79	Unnamed	42.7	8.2
TSS_M90	Unnamed	0.0	0
TSS_M91	Unnamed	36.9	1.3
TSS_M92	Unnamed	0.0	0
TSS_M93	Unnamed	45.8	12
TSS_M94	Unnamed	0.0	0
TSS_M95	Unnamed	34.2	17
TSS_M96	Unnamed	62.8	30
TSS_M97	Unnamed	0.0	0
TSS_M98	Unnamed	52.0	2.7
TSS_M99	Unnamed	13.4	0.12

# Sheboygan River Basin Region





## Total Suspended Solids Annual Allocations

Table L.S.1. Annual total suspended solids load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	<b>Total (LA+WLA+RC) (ton/year)</b>	<b>LA (BG+Ag+NPU) (ton/year)</b>	BG (ton/year)	Agric. (ton/year)	NPU (ton/year)	<b>WLA (GP+MS4+IP) (ton/year)</b>	GP (ton/year)	MS4 (ton/year)	IP (ton/year)	<b>RC (ton/year)</b>
TSS_S1	<b>900</b>	<b>836</b>	61	765	11	<b>22</b>	8.4	12	1.6	<b>42</b>
TSS_S3	<b>278</b>	<b>263</b>	29	229	4.8	<b>2.5</b>	2.5	0	0	<b>12</b>
TSS_S9	<b>271</b>	<b>248</b>	13	226	8.8	<b>9.9</b>	2.6	0	7.3	<b>13</b>
TSS_S10	<b>196</b>	<b>176</b>	9	164	2.8	<b>10</b>	1.9	4.2	4	<b>9.3</b>
TSS_S24	<b>4,971</b>	<b>4,634</b>	201	4,397	36	<b>111</b>	48	18	45	<b>238</b>
TSS_S25	<b>2,048</b>	<b>1,914</b>	166	1,735	14	<b>33</b>	19	1.2	13	<b>94</b>
TSS_S29	<b>1,690</b>	<b>1,557</b>	134	1,372	51	<b>55</b>	16	1.2	38	<b>78</b>
TSS_S40	<b>1,589</b>	<b>1,487</b>	184	1,293	10	<b>32</b>	14	9.4	8.4	<b>70</b>
TSS_S106	<b>14</b>	<b>0.34</b>	0.34	0	0	<b>13</b>	0.14	13	0	<b>0.7</b>
TSS_S107	<b>5.6</b>	<b>0.37</b>	0.19	0	0.18	<b>4.9</b>	0.05	4.9	0	<b>0.27</b>
TSS_S108	<b>215</b>	<b>202</b>	5.9	191	4.8	<b>2.5</b>	2.1	0.45	0	<b>10</b>
TSS_S109	<b>202</b>	<b>191</b>	28	161	3	<b>1.7</b>	1.7	0	0	<b>8.7</b>
TSS_S110	<b>103</b>	<b>89</b>	2.5	84	3	<b>8.5</b>	1	7.5	0	<b>5</b>

## Total Suspended Solids Daily Allocations

Table L.S.2. Daily total suspended solids load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	<b>Total (LA+WLA+RC) (ton/day)</b>	<b>LA (BG+Ag+NPU) (ton/day)</b>	BG (ton/day)	Agric. (ton/day)	NPU (ton/day)	<b>WLA (GP+MS4+IP) (ton/day)</b>	GP (ton/day)	MS4 (ton/day)	IP (ton/day)	<b>RC (ton/day)</b>
TSS_S1	<b>2.4654</b>	<b>2.2889</b>	0.1664	2.0932	0.0293	<b>0.0615</b>	0.0230	0.0342	0.0043	<b>0.1150</b>
TSS_S3	<b>0.7610</b>	<b>0.7202</b>	0.0800	0.6270	0.0132	<b>0.0068</b>	0.0068	0	0	<b>0.0341</b>
TSS_S9	<b>0.7409</b>	<b>0.6787</b>	0.0369	0.6176	0.0242	<b>0.0271</b>	0.0070	0	0.0200	<b>0.0352</b>
TSS_S10	<b>0.5359</b>	<b>0.4828</b>	0.0247	0.4503	0.0077	<b>0.0275</b>	0.0051	0.0114	0.0110	<b>0.0256</b>
TSS_S24	<b>13.6098</b>	<b>12.6887</b>	0.5508	12.0391	0.0988	<b>0.3026</b>	0.1306	0.0487	0.1233	<b>0.6530</b>
TSS_S25	<b>5.6061</b>	<b>5.2408</b>	0.4538	4.7489	0.0382	<b>0.0904</b>	0.0515	0.0032	0.0357	<b>0.2576</b>
TSS_S29	<b>4.6268</b>	<b>4.2629</b>	0.3660	3.7571	0.1398	<b>0.1498</b>	0.0426	0.0033	0.1039	<b>0.2130</b>
TSS_S40	<b>4.3502</b>	<b>4.0707</b>	0.5038	3.5394	0.0274	<b>0.0872</b>	0.0385	0.0257	0.0231	<b>0.1923</b>
TSS_S106	<b>0.0394</b>	<b>0.0009</b>	0.0009	0	0	<b>0.0366</b>	0.0004	0.0362	0	<b>0.0019</b>
TSS_S107	<b>0.0153</b>	<b>0.0010</b>	0.0005	0	0.0005	<b>0.0135</b>	0.0001	0.0134	0	<b>0.0007</b>
TSS_S108	<b>0.5885</b>	<b>0.5529</b>	0.0160	0.5237	0.0132	<b>0.0070</b>	0.0057	0.0012	0	<b>0.0286</b>
TSS_S109	<b>0.5522</b>	<b>0.5236</b>	0.0754	0.4399	0.0082	<b>0.0048</b>	0.0048	0	0	<b>0.0238</b>
TSS_S110	<b>0.2815</b>	<b>0.2446</b>	0.0068	0.2295	0.0083	<b>0.0232</b>	0.0027	0.0204	0	<b>0.0137</b>

## Total Suspended Solids Allocations by Permitted Point Source

Table L.S.3. Total suspended solids wasteload allocations for each individual permitted point source.

Reach	Permit no.	Outfall no.	Name	Allocation (lbs/year)	Allocation (lbs/day)
TSS_S29	50521	3	BAKER CHEESE FACTORY INC.	10,932	29.9311
TSS_S25	23353	1	BELGIUM WASTEWATER TREATMENT FACILITY	23,044	63.0912
TSS_S24	27456	1	BEMIS MANUFACTURING COMPANY - PLANT D	16,762	45.8913
TSS_S9	20711	1	CEDAR GROVE WASTEWATER TRTMNT FACIL	14,631	40.0579
TSS_S1	51535	11	CEDAR VALLEY CHEESE, INC	3,160	8.6505
TSS_S25	31577	1	GIBBSVILLE SANITARY DISTRICT	2,562	7.0147
TSS_S40	21679	1	HOWARDS GROVE WASTEWATER TRTMT FAC	16,339	44.7342
TSS_S24	1759	2	JOHNSONVILLE LLC	18,572	50.8468
TSS_S24	1759	3	JOHNSONVILLE LLC	32	0.0863
TSS_S24	20141	1	KIEL WASTEWATER TREATMENT FACILITY	52,306	143.2070
TSS_S24	29335	4	LAKELAND UNIVERSITY	7,073	19.3639
TSS_S25	817	4	LAKESIDE FOODS, INC. - BELGIUM PLANT	3,019	8.2644
TSS_S24	35963	1	MOUNT CALVARY WASTEWATER TREATMENT FACILITY	11,089	30.3601
TSS_S25	36811	1	ONION RIVER WASTEWATER COMMISSION	6,137	16.8014
TSS_S10	22233	1	OOSTBURG WASTEWATER TREATMENT PLANT	26,824	73.4395
TSS_S40	66681	101	PLASTICS ENGINEERING COMPANY	509	1.3933
TSS_S29	30031	1	PLYMOUTH UTILITIES WWTF	70,711	193.5956
TSS_S24	66699	1	POLY VINYL COMPANY INC	2,434	6.6627
TSS_S29	41904	1	SARTORI COMPANY-WEST MAIN BUILDING	5,212	14.2701
TSS_S24	26867	1	ST CLOUD VILLAGE UTILITY COMMISSION	4,604	12.6046
TSS_S25	22471	1	WALDO WASTEWATER UTILITY	3,892	10.6551
TSS_S10	1589	14	WISCONSIN POWER AND LIGHT EDGEWATER GEN. STATION	3.5	0.0095

## Total Suspended Solids Allocations by MS4

Table L.S.4. Total suspended solids wasteload allocations for each permitted MS4 and the reaches they drain to.

Municipality	Reach	Area (acres)	Allocation (lbs/year)	Allocation (lbs/day)	Reduction from baseline (%)	Reduction from no-controls (%)
City of Port Washington	TSS_S1	2,238	24,953	68.319	57	66
City of Sheboygan	TSS_S10	2,474	3,071	8.408	0	20
Town of Sheboygan	TSS_S10	7	9	0.025	0	20
Town of Wilson	TSS_S10	4,215	5,232	14.324	0	20
City of Sheboygan	TSS_S24	3,236	5,369	14.700	7	25
City of Sheboygan Falls	TSS_S24	2,630	4,363	11.946	7	25
Town of Sheboygan	TSS_S24	892	1,481	4.054	7	25
Town of Taycheedah	TSS_S24	6,423	10,658	29.180	7	25
Town of Wilson	TSS_S24	4,954	8,221	22.507	7	25
Village of Kohler	TSS_S24	3,285	5,451	14.923	7	25
City of Sheboygan Falls	TSS_S25	628	1,402	3.839	57	66
Town of Wilson	TSS_S25	392	875	2.396	57	66
Village of Kohler	TSS_S25	22	50	0.137	57	66
City of Sheboygan Falls	TSS_S29	284	2,400	6.571	28	42
City of Sheboygan	TSS_S40	824	2,494	6.828	56	65
Town of Sheboygan	TSS_S40	3,703	11,200	30.664	56	65
Village of Howards Grove	TSS_S40	1,440	4,356	11.926	56	65
Village of Kohler	TSS_S40	234	706	1.934	56	65
City of Sheboygan	TSS_S106	2,374	23,798	65.155	0	20
Town of Sheboygan	TSS_S106	264	2,643	7.235	0	20
City of Sheboygan	TSS_S107	599	9,008	24.663	0	20
Town of Wilson	TSS_S107	51	769	2.107	0	20
City of Sheboygan	TSS_S108	121	131	0.359	7	26
Town of Wilson	TSS_S108	714	772	2.115	7	26
City of Port Washington	TSS_S110	824	14,934	40.887	49	59

## Total Suspended Solids Percent Reductions

Table L.S.5. Total suspended solids reductions from baseline.

Reach	Reach description	Percent reduction (%)	Load reduction (tons/year)
TSS_S1	Sauk Creek	57.2	1,057
TSS_S3	Sucker Creek	67.7	491
TSS_S9	Barr Creek	42.7	180
TSS_S10	Black River	0.0	0
TSS_S24	Sheboygan River	6.8	328
TSS_S25	Onion River	57.4	2,388
TSS_S29	Mullet River	27.7	561
TSS_S40	Pigeon River	55.9	1,676
TSS_S106	Unnamed	0.0	0
TSS_S107	Unnamed	0.0	0
TSS_S108	Unnamed	7.5	16
TSS_S109	Unnamed	53.5	188
TSS_S110	Unnamed	49.2	91