Appendix G.
Load Duration Curves
Contents

G-1. Tributaries to Sandusky Bay ................................................................. G-5
  G-1.1 Pipe Creek-Frontal Sandusky Bay (HUC 04100011 01 02) ................. G-7
  G-1.2 Mills Creek (HUC 04100011 01 03) .................................................. G-8
  G-1.3 Frontal south side of Sandusky Bay (HUC 04100011 02 01) .............. G-10
  G-1.4 Pickerel Creek (HUC 04100011 02 03) ............................................. G-11
  G-1.5 Raccoon Creek (HUC 04100011 02 04) ............................................ G-12
  G-1.6 South Creek (HUC 04100011 02 05) ................................................ G-14
G-2. Tributaries to the Lower Sandusky River ...................................... G-15
  G-1.7 East Branch East Branch Wolf Creek (HUC 04100011 10 01) ........... G-17
  G-1.8 Town of Riegel-East Branch Wolf Creek (HUC 04100011 10 02) ....... G-19
  G-1.9 Wolf Creek (HUC 04100011 10 04) .................................................. G-21
  G-1.10 Spicer Creek-Sandusky River (HUC 04100011 11 05) ...................... G-22
  G-1.11 Beaver Creek (HUC 04100011 12 02) ............................................. G-23
  G-1.12 Green Creek (HUC 04100011 12 03) .............................................. G-24
  G-1.13 Muskellunge Creek (HUC 04100011 13 01) .................................. G-25
  G-1.14 Mouth Sandusky River (HUC 04100011 13 03) ............................. G-26
  G-1.15 Little Muddy Creek (HUC 04100011 14 03) .................................... G-27
  G-1.16 Town of Lindsey-Muddy Creek (HUC 04100011 14 04) ................... G-29
G-3. Sandusky River LRAUs ................................................................. G-30
  G-1.17 Sandusky River mainstem from Tymochtee Creek to Wolf Creek (HUC 04100011 09 01) ................................................................. G-31
  G-1.18 Sandusky River mainstem from Wolf Creek to Sandusky Bay (HUC 04100011 90 02) ......................................................... G-32

Tables

Table G-1. Locations and targets for LDCs and TMDLs on the tributaries to Sandusky Bay .......... G-5
Table G-2. Locations and targets for LDCs and TMDLs on the tributaries to the lower Sandusky River ................................................................. G-15
Table G-3. Locations and targets for LDCs and TMDLs on the Sandusky River ...................... G-30
Figures

Figure G-1. TSS LDC for Pipe Creek at RM 2.32 (U05K15) ................................................................. G-7
Figure G-2. Total phosphorus LDC for Mills Creek at 1.2 mile downstream of site U05S07 ........ G-8
Figure G-3. TSS LDC for Mills Creek at RM 1.35 (U05P05) ............................................................. G-8
Figure G-4. Total phosphorus LDC for Mills Creek at RM 1.35 (U05P05) ....................................... G-9
Figure G-5. TSS LDC for Little Pickerel Creek at frontal Lake Erie. .................................................. G-10
Figure G-6. TSS LDC for Pickerel Creek at RM 3.35 (U05S04) .......................................................... G-11
Figure G-7. Nitrate plus nitrite LDC for Buck Creek at mouth ........................................................... G-12
Figure G-8. Total phosphorus LDC for Raccoon Creek at 0.1 mile downstream of site U05W10 ... G-12
Figure G-9. TSS LDC for Raccoon Creek at RM 5.45 (U05W17) ...................................................... G-13
Figure G-10. Total phosphorus LDC for Raccoon Creek at RM 5.45 (U05W17) ......................... G-13
Figure G-11. TSS LDC for South Creek at RM 4.04 (U05K05) ......................................................... G-14
Figure G-12. Total phosphorus LDC for South Creek at RM 4.04 (U05K05) ................................. G-14
Figure G-13. Total phosphorus LDC for East Branch East Branch Wolf Creek at 0.4 mile downstream of site U04G13 ................................................................. G-17
Figure G-14. Nitrate plus nitrite LDC for East Branch East Branch Wolf Creek at 0.4 mile downstream of site U04G13................................................................. G-17
Figure G-15. Total phosphorus LDC for East Branch Wolf Creek at 1.0 mile downstream of site 300673 ................................................................. G-18
Figure G-16. Nitrate plus nitrite LDC for East Branch Wolf Creek at 1.0 mile downstream of site 300673 ................................................................. G-19
Figure G-17. Nitrate plus nitrite LDC for Plum Run at mouth ........................................................... G-20
Figure G-18. Nitrate plus nitrite LDC for Harrison Creek at mouth .................................................. G-21
Figure G-19. Total phosphorus LDC for Spicer Creek at mouth ...................................................... G-22
Figure G-20. TSS LDC for Emerson Creek at RM 1.83 (U04G26) .................................................... G-23
Figure G-21. TSS LDC for Green Creek at RM 15.06 (U04K01) ....................................................... G-24
Figure G-22. TSS LDC for Muskellunge Creek at Oak Harbor Road (State Route 19) ................. G-25
Figure G-23. Total phosphorus LDC for Muskellunge Creek at Oak Harbor Road (State Route 19) ... G-25
Figure G-24. TSS LDC for Bark Creek at mouth ............................................................................. G-26
Figure G-25. Total phosphorus LDC for Bark Creek at mouth .......................................................... G-26
Figure G-26. TSS LDC for Little Muddy Creek at Weickert Road (County Road 174) ............... G-27
Figure G-27. Total phosphorus LDC for Little Muddy Creek at Weickert Road (County Road 174) ... G-27
Figure G-28. Nitrate plus nitrite LDC for Little Muddy Creek at Weickert Road (County Road 174) ................................................................. G-28
Figure G-29. Total phosphorus LDC for Fishing Creek at RM 0.20 (300678) ............................... G-28
Figure G-30. Total phosphorus LDC for Muddy Creek at South Bolsinger Road (County Road 168) ................................................................. G-29
Figure G-31. TSS LDC for the Sandusky River at RM 26.94 (U04T01) .............................................. G-31
Figure G-32. TSS LDC for the Sandusky River at RM 20.25 (500820) ........................................... G-32
Figure G-33. Total phosphorus LDC for the Sandusky River at RM 20.25 (500820) ................ G-33
Figure G-34. Nitrate plus nitrite LDC for the Sandusky River at RM 20.25 (500820) ................. G-33
Figure G-35. TSS LDC for the Sandusky River at RM 18.05 (U04T02) ........................................ G-34
Figure G-36. Nitrate plus nitrite (ALU) LDC for the Sandusky River at RM 18.05 (U04T02) ....... G-34
Figure G-37. Nitrate plus nitrite (human health use) LDC for the Sandusky River at RM 18.05 (U04T02) ......................................................................................... G-35
Abbreviations and Acronyms

H     headwaters
HUC   hydrologic unit code
LDC   load duration curve
LR    large river
LRAU  large river assessment unit
N     nitrogen
NN    nitrate plus nitrite
P     phosphorus
RM    rivermile
TMDL  total maximum daily load
TP    total phosphorus
TSS   total suspended solids
W     wading
WTP   water treatment plant
WWTP  wastewater treatment plant

Units of Measure

lb/d   pounds per day
mgd    million gallons per day
mg/L   milligrams per liter
tons/d tons per day
### G-1. Tributaries to Sandusky Bay and Frontal Lake Erie

Table G-1. Locations and targets for LDCs and TMDLs on the tributaries to Sandusky Bay and Frontal Lake Erie

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Site name</th>
<th>RM</th>
<th>Size</th>
<th>Pollutant</th>
<th>Target a</th>
<th>Upstream impaired sites</th>
<th>TMDL site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mills Creek-Frontal Lake Erie (HUC 04100011 01)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U05K15</td>
<td>Pipe Creek at Sandusky at Columbus Avenue</td>
<td>2.32</td>
<td>W</td>
<td>TSS</td>
<td>24 mg/L</td>
<td>U05K16 U05K17</td>
<td>U05K15</td>
</tr>
<tr>
<td>Pipe Creek-Frontal Sandusky Bay (HUC 04100011 01 02)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U05S07</td>
<td>Mill Creek west of Parkertown at Portland Road</td>
<td>10.40</td>
<td>H</td>
<td>TP b</td>
<td>0.08 mg/L as P</td>
<td>--</td>
<td>Mills Creek at confluence with Caswell Ditch (1.2 miles downstream of U05S07)</td>
</tr>
<tr>
<td>U05P05</td>
<td>Mills Creek at Sandusky at Perkins Avenue</td>
<td>1.35</td>
<td>W</td>
<td>TP a</td>
<td>0.10 mg/L as P</td>
<td>U05P07 U05S06 U05W37 d</td>
<td>U05P05</td>
</tr>
<tr>
<td>Mills Creek (HUC 04100011 01 02)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U05W10</td>
<td>Raccoon Creek north of Clyde at Township Road 223</td>
<td>10.18</td>
<td>H</td>
<td>TP b</td>
<td>0.08 mg/L as P</td>
<td>U05P04</td>
<td>Raccoon Creek at confluence with Buck Run (0.1 mile downstream of U05W10)</td>
</tr>
<tr>
<td>U05W17</td>
<td>Raccoon Creek downstream of Ohio Turnpike at Township Road 244</td>
<td>5.45</td>
<td>W</td>
<td>TP a</td>
<td>0.10 mg/L as P</td>
<td>U05S03 d U05P04 d U05W10 d</td>
<td>U05W17</td>
</tr>
<tr>
<td>Pickerel Creek-Frontal Lake Erie (HUC 04100011 02)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frontal south side of Sandusky Bay (HUC 04100011 02 01)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>201385</td>
<td>Little Pickerel Creek at Stocker Road</td>
<td>2.00</td>
<td>H</td>
<td>TSS c</td>
<td>24 mg/L</td>
<td>--</td>
<td>Little Pickerel Creek at frontal Lake Erie (1.9 miles downstream of 201385)</td>
</tr>
<tr>
<td>Pickerel Creek (HUC 04100011 02 03)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U05S04</td>
<td>Pickerel Creek at Township Road 247</td>
<td>3.35</td>
<td>W</td>
<td>TSS c</td>
<td>24 mg/L</td>
<td>--</td>
<td>U05S04</td>
</tr>
<tr>
<td>Raccoon Creek (HUC 04100011 02 04)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U05S03</td>
<td>Buck Run north of Clyde at Township Road 223</td>
<td>0.20</td>
<td>H</td>
<td>NN e</td>
<td>1.0 mg/L as N</td>
<td>--</td>
<td>Buck Run at mouth (0.3 mile downstream of U05S03)</td>
</tr>
<tr>
<td>U05W10</td>
<td>Raccoon Creek north of Clyde at Township Road 223</td>
<td>10.18</td>
<td>H</td>
<td>TP b</td>
<td>0.08 mg/L as P</td>
<td>U05P04</td>
<td>Raccoon Creek at confluence with Buck Run (0.1 mile downstream of U05W10)</td>
</tr>
<tr>
<td>U05W17</td>
<td>Raccoon Creek downstream of Ohio Turnpike at Township Road 244</td>
<td>5.45</td>
<td>W</td>
<td>TP a</td>
<td>0.10 mg/L as P</td>
<td>--</td>
<td>U05S03 d U05P04 d U05W10 d</td>
</tr>
</tbody>
</table>
### South Creek (HUC 04100011 02 05)

<table>
<thead>
<tr>
<th>HUC</th>
<th>Location</th>
<th>TP (^{b})</th>
<th>TSS (^{c})</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>U05K05</td>
<td>South Creek near Riley Center at Whitmore Road (Township Road 247)</td>
<td>0.08 mg/L as P</td>
<td>24 mg/L</td>
<td>H = headwaters (less than 20 square miles); HUC = hydrologic unit code; mg/L = milligram per liter; N = nitrogen; P = phosphorus; RM = river mile; TP = total phosphorus; TSS = total suspended solids; W = wading (greater than 20 square miles and smaller than requiring a boat).</td>
</tr>
</tbody>
</table>

**Notes**
- H = headwaters (less than 20 square miles); HUC = hydrologic unit code; mg/L = milligram per liter; N = nitrogen; P = phosphorus; RM = river mile; TP = total phosphorus; TSS = total suspended solids; W = wading (greater than 20 square miles and smaller than requiring a boat).
- Refer to Sections 2.3 and 8.2.1 for discussions of the TMDL targets.
- The total phosphorus TMDL also serves as a surrogate for the nutrient/eutrophication and organic enrichment (sewage) impairments.
- The TSS TMDL also serves as a surrogate for the particle distribution (embeddedness) impairment.
- Since the headwaters and wading TSS targets are both 24 mg/L for WWH streams in the HELP ecoregion, separate sediment TMDLs for the headwaters sites were unnecessary. This impaired headwaters sites were addressed through the sediment TMDL for the wading site.
- The nitrate plus nitrite TMDL serves as a surrogate for the nutrient/eutrophication impairments.

---

- G-6 -
G-1.1  *Pipe Creek-Frontal Sandusky Bay (HUC 04100011 01 02)*

Figure G-1. TSS LDC for Pipe Creek at RM 2.32 (U05K15).
Figure G-2. Total phosphorus LDC for Mills Creek at 1.2 mile downstream of site U05S07.

Figure G-3. TSS LDC for Mills Creek at RM 1.35 (U05P05).
Figure G-4. Total phosphorus LDC for Mills Creek at RM 1.35 (U05P05).
G-1.3  *Frontal south side of Sandusky Bay (HUC 04100011 02 01)*

![Graph showing Total Suspended Solids (TSS) Load Duration Curve (LDC) for Little Pickerel Creek at frontal Lake Erie.](image)

Figure G-5. TSS LDC for Little Pickerel Creek at frontal Lake Erie.
**G-1.4 Pickerel Creek (HUC 04100011 02 03)**

![Graph of Total Suspended Solids (TSS) Load Duration Curve (LDC) for Pickerel Creek at RM 3.35 (U05S04).](image)

*Figure G-6. TSS LDC for Pickerel Creek at RM 3.35 (U05S04).*
G-1.5  **Raccoon Creek (HUC 04100011 02 04)**

**Figure G-7.** Nitrate plus nitrite LDC for Buck Creek at mouth.

**Figure G-8.** Total phosphorus LDC for Raccoon Creek at 0.1 mile downstream of site U05W10.
Figure G-9. TSS LDC for Raccoon Creek at RM 5.45 (U05W17).

Figure G-10. Total phosphorus LDC for Raccoon Creek at RM 5.45 (U05W17).
G-1.6 South Creek (HUC 04100011 02 05)

Figure G-11. TSS LDC for South Creek at RM 4.04 (U05K05).

Figure G-12. Total phosphorus LDC for South Creek at RM 4.04 (U05K05).
### G-2. Tributaries to the Sandusky River (Lower)

Table G-2. Locations and targets for LDCs and TMDLs on the tributaries to the Sandusky River (lower)

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Site name</th>
<th>RM</th>
<th>Size</th>
<th>Parameter</th>
<th>Target $^a$</th>
<th>Upstream impaired sites</th>
<th>TMDL site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wolf Creek (HUC 04100011 10)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Branch Wolf Creek (HUC 04100011 10 01)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U04G13</td>
<td>East Branch East Branch Wolf Creek at County Road 26</td>
<td>3.52</td>
<td>H</td>
<td>NN $^b$</td>
<td>1.0 mg/L as N</td>
<td>--</td>
<td>E. Br. E. Br. Wolf Cr. at confluence with Middle Br. E. Br. Wolf Cr. (0.4 mile downstream of U04G13)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TP $^c$</td>
<td>0.08 mg/L as P</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Town of New Riegel-East Branch Wolf Creek (HUC 04100011 10 02)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300673</td>
<td>East Branch Wolf Creek at Meadowbrook Park</td>
<td>19.65</td>
<td>H</td>
<td>NN $^b$</td>
<td>1.0 mg/L as N</td>
<td>--</td>
<td>E. Br. Wolf Cr. at confluence with unnamed tributary (about 1.0 mile downstream of 300673)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TP $^c$</td>
<td>0.08 mg/L as P</td>
<td></td>
</tr>
<tr>
<td>Wolf Creek (HUC 04100011 10 04)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U04G09</td>
<td>Plum Run east of Fostoria at State Route 635</td>
<td>0.79</td>
<td>H</td>
<td>NN $^b$</td>
<td>1.0 mg/L as N</td>
<td>--</td>
<td>Plum Run at mouth (0.9 mile downstream of U04G09)</td>
</tr>
<tr>
<td>U04G11</td>
<td>Harrison Creek east of Fostoria at County Road 592</td>
<td>0.38</td>
<td>H</td>
<td>NN $^b$</td>
<td>1.0 mg/L as N</td>
<td>--</td>
<td>Harrison Creek at mouth (0.4 mile downstream of U04G11)</td>
</tr>
<tr>
<td>Rock Creek-Sandusky River (HUC 04100011 11)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spicer Creek-Sandusky River (HUC 04100011 11 05)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U04Q11</td>
<td>Spicer Creek north of Tiffin at County Road 33</td>
<td>0.80</td>
<td>H</td>
<td>TP $^d$</td>
<td>0.08 mg/L as P</td>
<td>--</td>
<td>Spicer Creek at mouth (0.8 mile downstream of U04Q11)</td>
</tr>
<tr>
<td>Green Creek (HUC 04100011 12)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beaver Creek (HUC 04100011 12 02)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U04G26</td>
<td>Emerson Creek at Township Road 129</td>
<td>1.83</td>
<td>W</td>
<td>TSS</td>
<td>24 mg/L</td>
<td>U04K07 $^e$</td>
<td>U04G26</td>
</tr>
<tr>
<td>Green Creek (HUC 04100011 12 03)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U04K01</td>
<td>Green Creek northeast of Fremont at Township Road 239</td>
<td>5.06</td>
<td>W</td>
<td>TSS</td>
<td>24 mg/L</td>
<td>U04S10</td>
<td>U04K01</td>
</tr>
</tbody>
</table>
### Muskellunge Creek-Sandusky River (HUC 04100011 13)

<table>
<thead>
<tr>
<th>Site Code</th>
<th>Location</th>
<th>RM</th>
<th>Use</th>
<th>TP $^c$ (mg/L as P)</th>
<th>TSS (mg/L)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>U04P08</td>
<td>Muskingum Creek near Fremont at Fangboner Road</td>
<td>1.23</td>
<td>W</td>
<td>0.10</td>
<td>24</td>
<td>Muskellunge Creek at Oak Harbor Road (State Route 19), (1.7 mile upstream of site 300674)</td>
</tr>
<tr>
<td>300671</td>
<td>Bark Creek at Kelley Road (County Road 245)</td>
<td>3.20</td>
<td>H</td>
<td>0.08</td>
<td>24</td>
<td>Bark Creek at mouth (3.0 miles downstream of 300671)</td>
</tr>
</tbody>
</table>

### Muddy Creek-Frontal Sandusky Bay (04100011 14)

<table>
<thead>
<tr>
<th>Site Code</th>
<th>Location</th>
<th>RM</th>
<th>Use</th>
<th>TP $^c$ (mg/L as P)</th>
<th>TSS (mg/L)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>300676 $^h$</td>
<td>Little Muddy Creek at Kline Road</td>
<td>2.50</td>
<td>W</td>
<td>0.10</td>
<td>24</td>
<td>Little Muddy Creek at Weickert Road (County Road 174), (1.0 mile upstream of 300676)</td>
</tr>
<tr>
<td>300678</td>
<td>Fishing Creek at Weickert Road</td>
<td>0.20</td>
<td>H</td>
<td>0.08</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>U04K13 $^i$</td>
<td>Muddy Creek at east side of State Route 53</td>
<td>1.23</td>
<td>W</td>
<td>0.10</td>
<td></td>
<td>Muddy Creek at South Bolsinger Road (CR168), (4.1 mile upstream of site U04S01)</td>
</tr>
</tbody>
</table>

**Notes:***
- H = headwaters (less than 20 square miles); HUC = hydrologic unit code; mg/L = milligram per liter; N = nitrogen; NN = nitrate plus nitrite; P = phosphorus; RM = river mile; TP = total phosphorus; TSS = total suspended solids; W = wading (greater than 20 square miles and smaller than requiring a boat).
- a. Refer to Sections 2.3 and 8.2.1 for discussions of the TMDL targets.
- b. The nitrate plus nitrite TMDL also serves as a surrogate for the nutrient/eutrophication impairment.
- c. The total phosphorus TMDL also serves as a surrogate for the nutrient/eutrophication impairment.
- d. The total phosphorus TMDL also serves as a surrogate for the nutrient/eutrophication and organic enrichment (sewage) impairments.
- e. The total phosphorus TMDL also serves as a surrogate for the particle distribution (embeddedness) impairment.
- f. TMDLs were developed at Oak Harbor Road (SR-19) because site U04P08, which is in nonattainment, is in the lacustuary and flows cannot be modeled within the lacustuary.
- g. The TSS TMDL also serves as a surrogate for the particle distribution (embeddedness) impairment.
- h. TMDLs were developed at Weikert Road (CR-174) because site 300676, which is in nonattainment, is in the lacustuary and flows cannot be modeled in the lacustuary.
- i. The TMDL was developed at South Bolsinger Road (CR-168) because site U04Q13, which is in nonattainment, is in the lacustuary and flows cannot be modeled in the lacustuary.
G-1.7  East Branch East Branch Wolf Creek (HUC 04100011 10 01)

Figure G-13. Total phosphorus LDC for East Branch East Branch Wolf Creek at 0.4 mile downstream of site U04G13.
Figure G-14. Nitrate plus nitrite LDC for East Branch East Branch Wolf Creek at 0.4 mile downstream of site U04G13.
G-1.8  Town of Riegel-East Branch Wolf Creek (HUC 04100011 10 02)

![Target Load Duration Curve and Samples](Image)

Figure G-15. Total phosphorus LDC for East Branch Wolf Creek at 1.0 mile downstream of site 300673.
Figure G-16. Nitrate plus nitrite LDC for East Branch Wolf Creek at 1.0 mile downstream of site 300673.
**G-1.9 Wolf Creek (HUC 04100011 10 04)**

![Graph](image-url)  
**Figure G-17. Nitrate plus nitrite LDC for Plum Run at mouth.**

![Graph](image-url)  
**Figure G-18. Nitrate plus nitrite LDC for Harrison Creek at mouth.**
G-1.10 Spicer Creek-Sandusky River (HUC 04100011 11 05)

Figure G-19. Total phosphorus LDC for Spicer Creek at mouth.
G-1.11  Beaver Creek (HUC 04100011 12 02)

Figure G-20. TSS LDC for Emerson Creek at RM 1.83 (U04G26).
**G-1.12 Green Creek (HUC 04100011 12 03)**

![Graph](image)

**Figure G-21. TSS LDC for Green Creek at RM 15.06 (U04K01).**
G-1.13 Muskellunge Creek (HUC 04100011 13 01)

Figure G-22. TSS LDC for Muskellunge Creek at Oak Harbor Road (State Route 19).

Figure G-23. Total phosphorus LDC for Muskellunge Creek at Oak Harbor Road (State Route 19).
G-1.14 Mouth Sandusky River (HUC 04100011 13 03)

Figure G-24. TSS LDC for Bark Creek at mouth.

Figure G-25. Total phosphorus LDC for Bark Creek at mouth.
**G-1.15 Little Muddy Creek (HUC 04100011 14 03)**

*Figure G-26. TSS LDC for Little Muddy Creek at Weickert Road (County Road 174).*

*Figure G-27. Total phosphorus LDC for Little Muddy Creek at Weickert Road (County Road 174).*
Figure G-28. Nitrate plus nitrite LDC for Little Muddy Creek at Weickert Road (County Road 174).

Figure G-29. Total phosphorus LDC for Fishing Creek at RM 0.20 (300678).
G-1.16  Town of Lindsey-Muddy Creek (HUC 04100011 14 04)

Figure G-30. Total phosphorus LDC for Muddy Creek at South Bolsinger Road (County Road 168).
## G-3. Sandusky River mainstem LRAUs

### Table G-3. Locations and targets for LDCs and TMDLs on the Sandusky River mainstem

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Site name</th>
<th>RM</th>
<th>Size</th>
<th>Parameter</th>
<th>Target (^a)</th>
<th>Upstream impaired sites</th>
<th>TMDL Site</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sandusky River mainstem from Tymochtee Creek to Wolf Creek (04100011 90 01)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U04T01</td>
<td>Sandusky River at Old Fort at County Road 51</td>
<td>26.94</td>
<td>LR</td>
<td>TSS</td>
<td>46 mg/L</td>
<td>--</td>
<td>U04T01</td>
</tr>
<tr>
<td><strong>Sandusky River mainstem from Wolf Creek to Sandusky Bay (041000 90 02)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>500820</td>
<td>Sandusky River at Fremont</td>
<td>20.25</td>
<td>LR</td>
<td>NN(^b)</td>
<td>2.0 mg/L as N</td>
<td>--</td>
<td>500820</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TP</td>
<td>0.30 mg/L as P</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TSS</td>
<td>60 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U04T02</td>
<td>Sandusky River just upstream of Ballville Dam</td>
<td>18.05</td>
<td>LR</td>
<td>NN(^c)</td>
<td>2.0 mg/L as N</td>
<td>U04T02, 300830</td>
<td>U04T02</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TSS</td>
<td>60 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n/a</td>
<td>10 mg/L as N</td>
<td>n/a</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

- HUC = hydrologic unit code; LR = large river (greater than 1,000 square miles); mg/L = milligram per liter; N = nitrogen; n/a = not applicable; P = phosphorus; RM = river mile; TSS = total suspended solids.
- a. Refer to Sections 2.3 and 8.2.1 for discussions of the TMDL targets.
- b. The nitrate plus nitrite TMDL and total phosphorus TMDL serve as surrogates for the nutrient/eutrophication impairment to the designated aquatic life use.
- c. The nitrate plus nitrite TMDL serves as a surrogate for the nutrient/eutrophication impairment to the designated aquatic life use.
G-1.17 Sandusky River mainstem from Tymochtee Creek to Wolf Creek (HUC 04100011 09 01)

Figure G-31. TSS LDC for the Sandusky River at RM 26.94 (U04T01).
G-1.18 Sandusky River mainstem from Wolf Creek to Sandusky Bay (HUC 04100011 90 02)

Figure G-32. TSS LDC for the Sandusky River at RM 20.25 (500820).
Figure G-33. Total phosphorus LDC for the Sandusky River at RM 20.25 (500820).

Figure G-34. Nitrate plus nitrite LDC for the Sandusky River at RM 20.25 (500820).
Figure G-35. TSS LDC for the Sandusky River at RM 18.05 (U04T02).

Figure G-36. Nitrate plus nitrite (ALU) LDC for the Sandusky River at RM 18.05 (U04T02).
Figure G-37. Nitrate plus nitrite (human health use) LDC for the Sandusky River at RM 18.05 (U04T02).