

Appendix H.
TMDLs to Address Impairments

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Acronyms and Abbreviations

AFG	allocation for future growth
EBBR	East Branch of the Black River
EFEBBR	East Fork of the East Branch of the Black River
HSTS	household sewage treatment system
HU	hydrologic unit
HUC	hydrologic unit code
LA	load allocation
LCSWMD	Lorain County Storm Water Management District
MOS	margin of safety
NPDES	National Pollutant Discharge Elimination System
ODOT	Ohio Department of Transportation
RM	rivermile
SSO	sanitary sewer overflow
TDS	total dissolved solids
TMDL	total maximum daily load
TP	total phosphorus
TSS	total suspended solids
WFEBBR	West Fork of the East Branch of the Black River
WLA	wasteload allocation
WPCC	water pollution control center
WTP	water treatment plant
WWTP	wastewater treatment plant

Important Information for the Allocation Tables

Allocation section

- The TMDL row (bolded) is the exact summation of the load allocation (LA), wasteload allocation (WLA) summation, margin of safety (MOS), allocation for future growth (AFG), and any nested TMDLs.
- The WLA (sum) row is the summation of individual and gross WLAs presented in the *Wasteload allocation* section of each table (see discussion below).
- The TMDL is rounded to the third significant digit, and the LA, WLA (sum), MOS, AFG, and any nested TMDLs are set to the same digit (to the right of the decimal) as the TMDL.

Wasteload allocation section

- The individual and gross WLAs are rounded to the second significant digit. Due to rounding, the exact summation of individual and gross WLAs may be slightly less than the WLA (sum) reported in the *Allocations* section.
- For a TMDL containing nested TMDLs, the WLAs reported in this section are for point sources in the TMDL subwatershed that are downstream of the nested TMDL(s).
- The individual properties with off-site discharging HSTS covered by the general permits that were used to calculate the gross WLAs, displayed as *HSTS (OHK00002)* and *HSTS (OHK00002 and OHL00002)*, are not identified herein.
- Individual properties with off-site discharging HSTS that are not covered by the general permits are considered illicit discharges and their WLAs are zero.
 - *HSTS (unpermitted)* represents off-site discharging HSTS that never sought general permit coverage. The number and location of these HSTS are unknown.
 - *HSTS (expired)* represents off-site discharging HSTS that were covered by expired general permits OHK00001 and OHL00001 whose owners never sought coverage under current general permits OHK00002 or OHL00002. The locations of these HSTS are known.
- The individual industrial facilities covered by the general permit for industrial stormwater that contribute to each TMDL's *Industrial stormwater* gross WLA are presented in footnotes below each allocation table.
- In some cases, a point source with multiple waste-streams received a WLA for each waste-stream because the WLAs for the waste-streams were calculated differently (e.g., *treated effluent* WLAs are concentration-based while *stormwater* WLAs are area-based) or because the NPDES permit prohibitions vary by waste-stream (e.g., *non-contact cooling water* may not contain bacteria while *treated effluent* may contain bacteria).
 - Sanitary treatment facilities with combined sewer overflows (CSOs) received separate WLAs for *treated effluent* and *CSOs*. WLAs for CSOs were allocated for discharges following storm events in the high flow zone. CSOs must also comply with their long term control plan (LTCP).
 - Sanitary treatment facilities with known sanitary sewer overflows (SSOs) received separate WLAs for *treated effluent* and *SSOs*. As SSOs are prohibited discharges; their WLAs are zero.

H-1. *E. coli* TMDLs to Address Recreation Use Impairments

Table H-1. *E. coli* TMDL for East Fork East Branch Black River at HU outlet (HUC 04110001 03 01)

Duration interval	High 5%	Moist 25%	Mid-range 50%	Dry 75%	Low 95%
Allocations					
TMDL	2.33E+11	5.18E+10	1.68E+10	9.12E+09	6.07E+09
LA	1.96E+11	4.05E+10	1.05E+10	3.93E+09	1.32E+09
WLA (sum)	4.48E+09	4.02E+09	3.93E+09	3.91E+09	3.90E+09
MOS (10%)	2.33E+10	5.18E+09	1.68E+09	9.12E+08	6.07E+08
AFG (4%)	9.30E+09	2.07E+09	6.71E+08	3.65E+08	2.43E+08
Wasteload allocations					
Chatham Township Community Center (3PT00092)	1.43E+07	1.43E+07	1.43E+07	1.43E+07	1.43E+07
HSTS (OHK00002)	5.59E+07	5.59E+07	5.59E+07	5.59E+07	5.59E+07
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial stormwater (OHR00005) ^a	5.88E+08	1.22E+08	3.16E+07	1.19E+07	4.01E+06
Lodi WWTP (3PB00027)	3.82E+09	3.82E+09	3.82E+09	3.82E+09	3.82E+09

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.
a. The gross WLA represents the following facilities: Bailey Manufacturing Co. (3GR00041) and CSM Horvath Lodi (3GR01558).

Table H-2. *E. coli* TMDL for West Fork East Branch Black River at HU outlet (HUC 04110001 03 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	6.12E+11	1.16E+11	2.67E+10	1.01E+10	4.17E+09
LA	5.25E+11	9.93E+10	2.27E+10	8.48E+09	3.41E+09
WLA (sum)	1.22E+09	3.65E+08	2.11E+08	1.83E+08	1.72E+08
MOS (10%)	6.12E+10	1.16E+10	2.67E+09	1.01E+09	4.17E+08
AFG (4%)	2.45E+10	4.64E+09	1.07E+09	4.03E+08	1.67E+08
Wasteload allocations					
Sterling Education Cleveland Site (3PT00015)	1.19E+08	1.19E+08	1.19E+08	1.19E+08	1.19E+08
HSTS (OHK00002)	2.23E+07	2.23E+07	2.23E+07	2.23E+07	2.23E+07
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial stormwater (OHR00005) ^a	1.05E+09	1.99E+08	4.55E+07	1.70E+07	6.84E+06
Wild Wood Lakes Campground (3GS00018) ^b	2.38E+07	2.38E+07	2.38E+07	2.38E+07	2.38E+07

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

a. The gross WLA represents the following facilities: CSX Transportation Inc. (3GR00772), Howards Nursery Inc. (3GR00268), and United Initiators Inc. (3GR00268).

b. The Wild Wood Lakes Campground (3GS00018) is covered by the *General Permit for Small Discharges of Sanitary Wastewater (25,000 Gallons per Day or Less)* and the WLA in this allocation table was calculated using the *E. coli* concentration limits in the general permit. The specific WLAs in this allocation table will not be incorporated into the general permit.

Table H-3. *E. coli* TMDL for East Branch Black River at HU outlet (HUC 04110001 03 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.37E+12	2.66E+11	6.64E+10	2.62E+10	1.35E+10
EFEBBR at HU outlet (HUC *03 01) TMDL (see Table H-1)	2.33E+11	5.18E+10	1.68E+10	9.12E+09	6.07E+09
WFEBBR at HU outlet (HUC *03 02) TMDL (see Table H-2)	6.12E+11	1.16E+11	2.67E+10	1.01E+10	4.17E+09
LA	4.55E+11	8.46E+10	1.97E+10	6.03E+09	2.78E+09
WLA (sum)	5.59E+06	5.59E+06	5.59E+06	5.59E+06	5.59E+06
MOS (10%)	5.30E+10	9.82E+09	2.30E+09	7.02E+08	3.24E+08
AFG (4%)	2.12E+10	3.93E+09	9.20E+08	2.81E+08	1.30E+08
Wasteload allocations					
HSTS (OHK00002)	5.59E+06	5.59E+06	5.59E+06	5.59E+06	5.59E+06
HSTS (expired or unpermitted)	0	0	0	0	0

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

Table H-4. *E. coli* TMDL for East Branch Black River at HU outlet (HUC 04110001 04 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.82E+12	3.38E+11	8.02E+10	3.09E+10	1.50E+10
<i>EBBR at HU outlet (HUC *03 03) TMDL (see Table H-3)</i>	1.37E+12	2.66E+11	6.64E+10	2.62E+10	1.35E+10
LA	3.90E+11	6.11E+10	1.14E+10	3.48E+09	7.62E+08
WLA (sum)	8.97E+08	5.78E+08	5.28E+08	5.20E+08	5.18E+08
MOS (10%)	4.42E+10	7.17E+09	1.37E+09	4.65E+08	1.49E+08
AFG (4%)	1.77E+10	2.87E+09	5.50E+08	1.86E+08	6.00E+07
Wasteload allocations					
EMSNET Business Center (3PT00103)	3.15E+07	3.15E+07	3.15E+07	3.15E+07	3.15E+07
HSTS (OHK00002)	5.59E+07	5.59E+07	5.59E+07	5.59E+07	5.59E+07
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial stormwater (OHR00005) ^a	3.80E+08	6.11E+07	1.13E+07	3.49E+06	7.63E+05
Spencer Forge and Manufacturing Company (3IS00087) ^b	0	0	0	0	0
Spencer WWTP (3PA00018) treated effluent	4.29E+08	4.29E+08	4.29E+08	4.29E+08	4.29E+08
Spencer WWTP (3PA00018) SSOs ^c	0	0	0	0	0

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

- a. The gross WLA represents the following facility: Stein Inc. (3GR01574).
- b. The Spencer Forge and Manufacturing Company (3IS00087) is not permitted to discharge bacteria.
- c. This Spencer WWTP (3PA00018) WLA is for SSOs, which are prohibited discharges.

Table H-5. *E. coli* TMDL for East Branch Black River at HU outlet (HUC 04110001 04 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	2.16E+12	3.94E+11	1.01E+11	3.76E+10	1.65E+10
<i>EBBR at HU outlet (HUC *04 01) TMDL (see Table H-4)</i>	<i>1.82E+12</i>	<i>3.38E+11</i>	<i>8.02E+10</i>	<i>3.09E+10</i>	<i>1.50E+10</i>
LA	2.95E+11	4.82E+10	1.81E+10	5.64E+09	1.20E+09
WLA (sum)	6.77E+08	1.83E+08	1.23E+08	9.75E+07	8.84E+07
MOS (10%)	3.44E+10	5.63E+09	2.12E+09	6.79E+08	1.50E+08
AFG (4%)	1.38E+10	2.25E+09	8.50E+08	2.72E+08	6.01E+07
Wasteload allocations ^a					
Al Nimer (Medina Meats) (3IH00110)	1.38E+07	1.38E+07	1.38E+07	1.38E+07	1.38E+07
Free Enterprises, Inc. (3GS00145) ^b	1.33E+06	1.33E+06	1.33E+06	1.33E+06	1.33E+06
HSTS (OHK00002 or OHL00002)	2.79E+07	2.79E+07	2.79E+07	2.79E+07	2.79E+07
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial stormwater (OHR00005) ^c	5.91E+08	9.66E+07	3.64E+07	1.15E+07	2.41E+06
Litchfield Preschool Daycare Center (3PT00099)	4.29E+07	4.29E+07	4.29E+07	4.29E+07	4.29E+07

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

- a. While a portion of this TMDL subwatershed is within Grafton Township, which is covered by a *Small MS4* permit, that portion of the TMDL subwatershed is not within the 2010 Census *Urbanized Area*.
- b. Free Enterprises, Inc. (3GS00145) is covered by the *General Permit for Small Discharges of Sanitary Wastewater (25,000 Gallons per Day or Less)* and the WLA in this allocation table was calculated using the *E. coli* concentration limits in the general permit. The specific WLAs in this allocation table will not be incorporated into the general permit.
- c. The gross WLA represents the following facilities: Alexis Concrete Enterprise Inc. (3GR01118) and Bendix Commercial Vehicle Systems (3GR00542).

Table H-6. *E. coli* TMDL for Willow Creek at HU outlet (HUC 04110001 04 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	9.45E+10	1.95E+10	5.78E+09	2.65E+09	1.73E+09
LA	6.22E+10	1.22E+10	3.07E+09	9.90E+08	3.76E+08
WLA (sum)	1.91E+10	4.55E+09	1.90E+09	1.29E+09	1.11E+09
MOS (10%)	9.45E+09	1.95E+09	5.78E+08	2.65E+08	1.73E+08
AFG (4%)	3.78E+09	7.80E+08	2.31E+08	1.06E+08	6.90E+07
Wasteload allocations ^a					
Buckeye Partners, L.P. (3IN00059) <i>stormwater</i>	1.61E+08	3.15E+07	7.95E+06	2.56E+06	9.71E+05
Don Porter (The Activity Center) (3PR00487)	1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07
Eaton Homes (3PH00023) <i>treated effluent</i>	9.54E+08	9.54E+08	9.54E+08	9.54E+08	9.54E+08
Eaton Homes (3PH00023) SSOs ^b	0	0	0	0	0
First Energy Generation Corp. (Westwood Ash Facility) (3IN00224) ^c	1.20E+09	2.37E+08	5.96E+07	1.92E+07	7.28E+06
Grafton (village) (3GQ00016) <i>MS4 stormwater</i>	2.15E+09	4.23E+08	1.07E+08	3.43E+07	1.30E+07
HSTS (OHK00002 or OHL00002)	3.35E+07	3.35E+07	3.35E+07	3.35E+07	3.35E+07
HSTS (unpermitted)	0	0	0	0	0
Industrial stormwater (OHR00005) ^d	3.21E+08	6.31E+07	1.59E+07	5.12E+06	1.94E+06
LCSWMD (3GQ10012) <i>MS4 stormwater</i>	7.90E+09	1.55E+09	3.91E+08	1.26E+08	4.78E+07
North Ridgeville (3GQ10009) <i>MS4 stormwater</i>	4.15E+09	8.15E+08	2.05E+08	6.62E+07	2.51E+07
ODOT (4GQ00000) <i>MS4 stormwater</i>	2.15E+09	4.23E+08	1.07E+08	3.43E+07	1.30E+07

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

a. While a portion of this TMDL subwatershed is within Grafton Township, which is covered by a Small MS4 permit, that portion of the TMDL subwatershed is not within the 2010 Census *Urbanized Area*.

b. This Eaton Homes (3PH00023) WLA is for SSOs, which are prohibited discharges.

c. First Energy Generation Corp. (Westwood Ash Facility) (3IN00224) is not permitted to discharge bacteria.

d. The gross WLA represents the following facility: KMI Columbia Station Plant 530 (3GR01077), Reeds Salvage Corporation (3GR00799, and Z Men Enterprises Inc. (3GR01969).

Table H-7. *E. coli* TMDL for East Branch Black River at HU outlet (HUC 04110001 04 04)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	2.70E+12	5.36E+11	1.50E+11	5.99E+10	2.93E+10
<i>EBBR at HU outlet (HUC *04 02) TMDL (see Table H-5)</i>	<i>2.16E+12</i>	<i>3.94E+11</i>	<i>1.01E+11</i>	<i>3.76E+10</i>	<i>1.65E+10</i>
<i>Willow Creek at HU outlet (HUC *04 03) TMDL (see Table H-6)</i>	<i>9.45E+10</i>	<i>1.95E+10</i>	<i>5.78E+09</i>	<i>2.65E+09</i>	<i>1.73E+09</i>
LA	1.93E+11	5.01E+10	1.46E+10	4.15E+09	2.46E+08
WLA (sum)	1.92E+11	5.54E+10	2.25E+10	1.28E+10	9.26E+09
MOS (10%)	4.47E+10	1.23E+10	4.31E+09	1.96E+09	1.11E+09
AFG (4%)	1.79E+10	4.91E+09	1.72E+09	7.82E+08	4.42E+08
Wasteload allocations ^a					
Brentwood Lake (3PH00024) treated effluent	5.72E+08	5.72E+08	5.72E+08	5.72E+08	5.72E+08
Brentwood Lake (3PH00024) SSOs ^b	0	0	0	0	0
Crane Aerospace (Lear Romec Division) (3IS00118) ^d	0	0	0	0	0
Elyria (3GQ00082) MS4 stormwater	4.94E+10	1.28E+10	3.80E+09	1.14E+09	1.82E+08
Elyria Airport (3PR00788)	4.77E+08	4.77E+08	4.77E+08	4.77E+08	4.77E+08
Elyria Hauling Company (3PR00185)	3.34E+07	3.34E+07	3.34E+07	3.34E+07	3.34E+07
Elyria WWTP (3PD00034) CSOs	2.38E+09	0	0	0	0
Grafton (village) (3GQ00016) MS4 stormwater	4.38E+10	1.13E+10	3.37E+09	1.01E+09	1.62E+08
Grafton WWTP (3PB00024) treated effluent	7.15E+09	7.15E+09	7.15E+09	7.15E+09	7.15E+09
Grafton WWTP (3PB00024) SSOs ^b	3.13E+08	3.13E+08	3.13E+08	3.13E+08	3.13E+08
HSTS (OHK00002 or OHL00002)	0	0	0	0	0
HSTS (expired or unpermitted)	2.26E+09	5.84E+08	1.74E+08	5.22E+07	8.34E+06
Industrial stormwater (OHR00005) ^d	7.15E+06	7.15E+06	7.15E+06	7.15E+06	7.15E+06
James Dixon (Butternut Ridge Apartments) (3PW00033)	8.34E+10	2.16E+10	6.42E+09	1.93E+09	3.08E+08
LCSWMD (3GQ10012) MS4 stormwater	1.50E+09	3.87E+08	1.15E+08	3.46E+07	5.53E+06
ODOT (4GQ00000) MS4 stormwater	0	0	0	0	0
The Premcor Refining Group (3GU00376) ^c	3.58E+07	3.58E+07	3.58E+07	3.58E+07	3.58E+07
Rowland Enterprises (Butternut Terrace Apartments) (3PW00038)	5.72E+08	5.72E+08	5.72E+08	5.72E+08	5.72E+08

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

a. Alco Manufacturing Corp. LLC (3IS00123) formerly discharged to an unnamed tributary of the East Branch Black River; in April 2013 the facility connected to public sewers.

b. These Brentwood Lake (3PH00024) and Grafton WWTP (3PB00024) WLAs are for SSOs, which are prohibited discharges.

c. Crane Aerospace (Lear Romec Division) (3IS00118; non-contact cooling water) and The Premcor Refining Group (3GU00376; petroleum-related corrective action) are not permitted to discharge bacteria.

d. The gross WLA represents the following facilities: Alco Manufacturing Corporation LLC (3GR01023), Applied Specialties Inc. (3GR00141), Bluestar Metal Recycling (3GR00735), Elyria Hauling Co. (3GR01567), Gasflux Co (3GR01274), Grafton Ready Mix (3GR01538), Lear Romec Div. Crane Co. (3GR00314), Medusa Concrete Corporation (3GR01885), and Motorheads Garage & Machine Shop (3GR01930).

Table H-8. *E. coli* TMDL for Charlemont Creek at HU outlet (HUC 04110001 05 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	3.13E+11	6.19E+10	1.61E+10	8.14E+09	5.70E+09
LA	2.65E+11	4.96E+10	1.02E+10	3.39E+09	1.30E+09
WLA (sum)	3.87E+09	3.65E+09	3.61E+09	3.61E+09	3.60E+09
MOS (10%)	3.13E+10	6.19E+09	1.61E+09	8.14E+08	5.70E+08
AFG (4%)	1.25E+10	2.47E+09	6.42E+08	3.26E+08	2.28E+08
Wasteload allocations ^a					
HSTS (OHK00002)	1.68E+07	1.68E+07	1.68E+07	1.68E+07	1.68E+07
HSTS (unpermitted)	0	0	0	0	0
Industrial stormwater (OHR00005) ^b	2.66E+08	4.96E+07	1.02E+07	3.41E+06	1.31E+06
Wellington WTP (3IV00200) ^c	0	0	0	0	0
Wellington WWTP (3PC00014) treated effluent	3.58E+09	3.58E+09	3.58E+09	3.58E+09	3.58E+09
Wellington WWTP (3PC00014) SSOs ^d	0	0	0	0	0

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

- a. Sterling Foundry Inc. (3ID00052) no longer operates and its last permit expired in 2006.
- b. The gross WLA represents the following facility: Denes Concrete Inc. (2GR01906).
- c. Wellington WTP (3IV00200; sludge lagoon discharge) is not permitted to discharge bacteria.
- d. This Wellington WWTP (3PC00014) WLA is for SSOs, which are prohibited discharges.

Table H-9. *E. coli* TMDL for West Branch Black River at HU outlet (HUC 04110001 05 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	4.80E+11	8.00E+10	1.85E+10	5.98E+09	2.31E+09
LA	4.13E+11	6.87E+10	1.59E+10	5.09E+09	1.94E+09
WLA (sum)	5.09E+07	5.09E+07	5.09E+07	5.09E+07	5.09E+07
MOS (10%)	4.80E+10	8.00E+09	1.85E+09	5.98E+08	2.31E+08
AFG (4%)	1.92E+10	3.20E+09	7.41E+08	2.39E+08	9.23E+07
Wasteload allocations ^a					
Country Stage Campground (2PR00121)	2.86E+07	2.86E+07	2.86E+07	2.86E+07	2.86E+07
HSTS (OHK00002)	2.23E+07	2.23E+07	2.23E+07	2.23E+07	2.23E+07
HSTS (unpermitted)	0	0	0	0	0

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

Table H-10. *E. coli* TMDL for Wellington Creek at HU outlet (HUC 04110001 05 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	3.21E+11	5.31E+10	1.20E+10	4.12E+09	1.67E+09
LA	2.76E+11	4.55E+10	1.02E+10	3.40E+09	1.29E+09
WLA (sum)	1.42E+08	1.42E+08	1.42E+08	1.42E+08	1.42E+08
MOS (10%)	3.21E+10	5.31E+09	1.20E+09	4.12E+08	1.67E+08
AFG (4%)	1.28E+10	2.12E+09	4.81E+08	1.65E+08	6.66E+07
Wasteload allocations					
Findley State Park Campground (3PP00004)	1.19E+08	1.19E+08	1.19E+08	1.19E+08	1.19E+08
HSTS (OHK00002)	2.23E+07	2.23E+07	2.23E+07	2.23E+07	2.23E+07
HSTS (unpermitted)	0	0	0	0	0

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

Table H-11. *E. coli* TMDL for West Branch Black River at HU outlet (HUC 04110001 05 04)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.08E+12	1.78E+11	4.72E+10	1.84E+10	8.93E+09
<i>Charlemont Creek at HU outlet (HUC *05 01) TMDL (see Table H-8)</i>	<i>3.13E+11</i>	<i>6.19E+10</i>	<i>1.61E+10</i>	<i>8.14E+09</i>	<i>5.70E+09</i>
LA	6.40E+11	9.66E+10	2.59E+10	8.57E+09	2.68E+09
WLA (sum)	1.98E+10	3.01E+09	8.23E+08	2.85E+08	1.03E+08
MOS (10%)	7.67E+10	1.16E+10	3.12E+09	1.03E+09	3.23E+08
AFG (4%)	3.07E+10	4.63E+09	1.25E+09	4.12E+08	1.29E+08
Wasteload allocations					
<i>HSTS (OHK00002)</i>	5.59E+06	5.59E+06	5.59E+06	5.59E+06	5.59E+06
<i>HSTS (expired or unpermitted)</i>	0	0	0	0	0
<i>Industrial stormwater (OHR00005) ^a</i>	6.59E+08	9.95E+07	2.68E+07	8.84E+06	2.76E+06
<i>LCSWMD (3GQ10012) MS4 stormwater</i>	1.78E+10	2.69E+09	7.22E+08	2.38E+08	7.43E+07
<i>ODOT (4GQ00000) MS4 stormwater</i>	1.32E+09	1.99E+08	5.35E+07	1.77E+07	5.50E+06
<i>Richard House (A-1 Construction Apartments) (3PW00027)</i>	1.43E+07	1.43E+07	1.43E+07	1.43E+07	1.43E+07

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

a. The gross WLA represents the following facility: Sectional Stamping Inc. (Shiloh Wellington) (3GR00053).

Table H-12. *E. coli* TMDL for Plum Creek at HU outlet (HUC 04110001 05 05)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.45E+11	3.87E+10	1.94E+10	1.31E+10	9.77E+09
LA	6.51E+10	1.44E+10	5.14E+09	2.26E+09	6.47E+08
WLA (sum)	5.99E+10	1.89E+10	1.15E+10	9.04E+09	7.75E+09
MOS (10%)	1.45E+10	3.87E+09	1.94E+09	1.31E+09	9.77E+08
AFG (4%)	5.81E+09	1.55E+09	7.76E+08	5.25E+08	3.91E+08
Wasteload allocations ^a					
Drema Hawkins (D'Tanglez Studio) (3PR00326)	7.15E+06	7.15E+06	7.15E+06	7.15E+06	7.15E+06
HSTS (OHK00002)	1.68E+07	1.68E+07	1.68E+07	1.68E+07	1.68E+07
HSTS (expired or unpermitted)	0	0	0	0	0
LCSWMD (3GQ10012) <i>MS4 stormwater</i>	3.31E+10	7.34E+09	2.66E+09	1.15E+09	3.34E+08
Lorain County Landfill, LLC (3IN00335)	1.93E+10	4.28E+09	1.55E+09	6.69E+08	1.95E+08
Lorain County Resource Recovery Complex (3PR00394)	3.82E+07	3.82E+07	3.82E+07	3.82E+07	3.82E+07
Oberlin WEPF (3PD00025)	7.15E+09	7.15E+09	7.15E+09	7.15E+09	7.15E+09
Oberlin WTP (3IW00061) ^b	0	0	0	0	0
ODOT (4GQ00000) <i>MS4 stormwater</i>	7.15E+06	7.15E+06	7.15E+06	7.15E+06	7.15E+06

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

- a. While a portion of this TMDL subwatershed is within Carlisle Township, which is covered by a *Small MS4* permit, that portion of the TMDL subwatershed is not within the 2010 Census *Urbanized Area*.
- b. Oberlin WTP (3IW00061; lime sludge lagoon discharge) is not permitted to discharge bacteria.

Table H-13. *E. coli* TMDL for West Branch Black River at HU outlet (HUC 04110001 05 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.91E+12	3.61E+11	1.00E+11	4.61E+10	2.63E+10
<i>WBBR at HU outlet (HUC *05 04) TMDL (see Table H-11)</i>	<i>1.08E+12</i>	<i>1.78E+11</i>	<i>4.72E+10</i>	<i>1.84E+10</i>	<i>8.93E+09</i>
<i>Plum Creek at HU outlet (HUC *05 05) TMDL (see Table H-12)</i>	<i>1.45E+11</i>	<i>3.87E+10</i>	<i>1.94E+10</i>	<i>1.31E+10</i>	<i>9.77E+09</i>
LA	4.65E+11	9.77E+10	2.14E+10	8.49E+09	3.69E+09
WLA (sum)	1.23E+11	2.66E+10	7.29E+09	4.05E+09	2.84E+09
MOS (10%)	6.83E+10	1.44E+10	3.33E+09	1.46E+09	7.59E+08
AFG (4%)	2.73E+10	5.78E+09	1.33E+09	5.83E+08	3.03E+08
Wasteload allocations ^a					
Circle K No. 5312 (3PR00434)	7.15E+06	7.15E+06	7.15E+06	7.15E+06	7.15E+06
Educational Service Center of Lorain County (3PT00104)	4.19E+07	4.19E+07	4.19E+07	4.19E+07	4.19E+07
Elyria (3GQ00082) <i>MS4 stormwater</i>	7.31E+10	1.54E+10	3.37E+09	1.34E+09	5.81E+08
Elyria Foundry Company, LLC (3ID00070) <i>stormwater</i>	5.82E+08	1.22E+08	2.68E+07	1.06E+07	4.62E+06
Elyria WWTP (3PD00034) CSOs ^b	3.62E+09	0	0	0	0
Hetal Patel (3PR00191)	9.54E+06	9.54E+06	9.54E+06	9.54E+06	9.54E+06
HSTS (OHK00002)	8.94E+07	8.94E+07	8.94E+07	8.94E+07	8.94E+07
HSTS (expired or unpermitted)	0	0	0	0	0
<i>Industrial Stormwater (OHR00005) ^c</i>	4.70E+09	9.80E+08	2.14E+08	8.50E+07	3.70E+07
Julian W. Perkins, Inc. (3GB00004) ^d	0	0	0	0	0
Kraft Food Global, Inc. (3IN00340) ^d	0	0	0	0	0
LaGrange WWTP (3PB00061)	1.73E+09	1.73E+09	1.73E+09	1.73E+09	1.73E+09
LCSWMD (3GQ10012) <i>MS4 stormwater</i>	3.74E+10	7.87E+09	1.72E+09	6.84E+08	2.97E+08
Lorain County MetroParks (Forest Hills Country Club) (3PZ00055)	2.38E+07	2.38E+07	2.38E+07	2.38E+07	2.38E+07
Oberlin WTP (3IW00061) ^d	0	0	0	0	0
ODOT (4GQ00000) <i>MS4 stormwater</i>	5.76E+08	1.21E+08	2.65E+07	1.05E+07	4.58E+06
Town and Country Co-op, Inc. (3IG00085) <i>stormwater</i>	5.82E+08	1.22E+08	2.68E+07	1.06E+07	4.62E+06

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

- a. RACER Trust (RACER Elyria) (3II00200) is closed.
- b. This Elyria WWTP (3PD00034) WLA is for CSOs and only applies following storm events during the high flow zone. Additionally, the Elyria CSS must comply with its NPDES permit and its LTCP (after Ohio EPA approves its LTCP).
- c. The gross WLA represents the following facilities: A & H Metals Inc. (3GR00820), A1 Rebuildable Wrecks (3GR00070), Consumers Builders Supply Co. Inc. (3GR01542), Dura-Line of Elyria (3GR01877), Elyria Concrete Inc. (3GR01249), Lake Terminal Railroad Co. (3GR01336), Northern Ohio Industrial Park (3GR01400), Plasto-Tech Corp. (3GR00687), RACER-Elyria (3GR01893), Real Alloy Specialty Products Inc. (3GR00615), Sugar Ridge Inc. (3GR01243), and Wm. Dauch Concrete Co. (3GR00802).
- d. Julian W. Perkins, Inc. (3GB00004; petroleum bulk storage facility), Kraft Food Global, Inc. (3IN00340; treated groundwater, building sump water), and the Oberlin WTP (3IW00061; WTP with lime sludge lagoon) are not permitted to discharge bacteria.

Table H-14. *E. coli* TMDL for French Creek at HU outlet (HUC 04110001 06 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	5.49E+11	1.55E+11	8.32E+10	6.44E+10	5.99E+10
LA	2.03E+10	3.02E+09	7.99E+08	2.65E+08	6.17E+08
WLA (sum)	4.52E+11	1.30E+11	7.08E+10	5.51E+10	5.40E+10
MOS (10%)	5.49E+10	1.55E+10	8.32E+09	6.44E+09	2.89E+09
AFG (4%)	2.20E+10	6.19E+09	3.33E+09	2.58E+09	2.40E+09
Wasteload allocations					
Avon (3GQ10002) <i>MS4 stormwater</i>	1.38E+11	2.62E+10	5.85E+09	4.03E+08	0
Avon Lake (3GQ00116) <i>MS4 stormwater</i>	4.17E+08	7.89E+07	1.76E+07	1.21E+06	0
Elyria (3GQ00082) <i>MS4 stormwater</i>	2.08E+09	3.95E+08	8.81E+07	6.07E+06	0
French Creek WWTP (3PD00043)	5.37E+10	5.37E+10	5.37E+10	5.37E+10	5.37E+10
HSTS (OHK00002)	1.01E+08	1.01E+08	1.01E+08	1.01E+08	1.01E+08
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial Stormwater (OHR00005) ^a	1.67E+09	3.17E+08	7.08E+07	6.10E+06	0
Lorain County Metro Parks (3GQ00013) <i>MS4 stormwater</i>	7.92E+09	1.50E+09	3.35E+08	2.31E+07	0
North Olmsted (3GQ10001) <i>MS4 stormwater</i>	1.63E+10	3.08E+09	6.87E+08	4.74E+07	0
North Ridgeville (3GQ10009) <i>MS4 stormwater</i>	1.50E+11	2.83E+10	6.33E+09	4.36E+08	0
ODOT (4GQ00000) <i>MS4 stormwater</i>	1.67E+09	3.16E+08	7.05E+07	4.86E+06	0
OTC (3GQ00022) <i>MS4 stormwater</i>	1.67E+09	3.16E+08	7.05E+07	4.86E+06	0
Sheffield (village) (3GQ10006) <i>MS4 stormwater</i>	4.92E+10	9.31E+09	2.08E+09	1.43E+08	0
Sheffield Middle School (3PT00088)	1.19E+08	1.19E+08	1.19E+08	1.19E+08	1.19E+08
Westlake (3GQ10013), <i>MS4 stormwater</i>	2.83E+10	5.37E+09	1.20E+09	8.26E+07	0

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

Under low flow conditions, based upon facility design flow, the French Creek WWTP (PD00035) could essentially contribute about 90 percent of instream flow. Thus, all stormwater

WLAs were set to zero to provide sufficient capacity for the French Cree WWTP to discharge at design flow during instream low flow conditions.

a. The gross WLA represents the following facilities: Avon Concrete Corporation (3GR01883), French Creek WWTP (3GR01056), Kurtz Brothers Inc. (Avon Production Site) (3GR01553), Metokote Corp. Plant 9 (3GR00658), and Techmer PM LLC (ACCEL Color) (3GR01214).

Table H-15. *E. coli* TMDL for the Black River at RM 9.80 (HUC 04110001 06 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	4.82E+12	1.03E+12	3.36E+11	1.77E+11	1.21E+11
<i>EBBR at HU outlet (HUC *04 04) TMDL (see Table H-7)</i>	2.70E+12	5.36E+11	1.50E+11	5.99E+10	2.93E+10
<i>WBBR at HU outlet (HUC *05 06) TMDL (see Table H-13)</i>	1.91E+12	3.61E+11	1.00E+11	4.61E+10	2.63E+10
LA	3.89E+09	1.72E+09	3.97E+08	1.06E+07	4.61E+07
WLA (sum)	1.75E+11	1.12E+11	7.37E+10	6.26E+10	6.23E+10
MOS (10%) ^a	2.07E+10	1.32E+10	8.61E+09	5.68E+09	5.90E+08
AFG (4%)	8.30E+09	5.30E+09	3.44E+09	2.84E+09	2.62E+09
Wasteload allocations					
Elyria (3GQ00082) <i>MS4 stormwater</i>	4.69E+10	2.07E+10	4.79E+09	1.28E+08	0
Elyria WWTP (3PD00034) <i>treated effluent</i>	6.20E+10	6.20E+10	6.20E+10	6.20E+10	6.20E+10
Elyria WWTP (3PD00034) <i>CSOs</i> ^b	4.77E+07	0	0	0	0
<i>HSTS (OHK00002 or OHL00002)</i>	6.15E+07	6.15E+07	6.15E+07	6.15E+07	6.15E+07
<i>HSTS (expired or unpermitted)</i>	0	0	0	0	0
<i>Industrial Stormwater (OHR00005)</i> ^c	1.60E+09	7.17E+08	1.66E+08	4.40E+06	0
Kalt Manufacturing Company (3IS00079)	2.38E+07	2.38E+07	2.38E+07	2.38E+07	2.38E+07
LCSWMD (3GQ10012) <i>MS4 stormwater</i>	4.69E+09	2.07E+09	4.79E+08	1.28E+07	0
Lorain County Metro Parks (3GQ00013) <i>MS4 stormwater</i>	5.15E+09	2.27E+09	5.26E+08	1.41E+07	0
North Ridgeville (3GQ10009) <i>MS4 stormwater</i>	5.25E+10	2.32E+10	5.36E+09	1.43E+08	0
ODOT (4GQ00000) <i>MS4 stormwater</i>	3.43E+08	1.52E+08	3.51E+07	9.40E+05	0
OTC (3GQ00022) <i>MS4 stormwater</i>	9.15E+08	4.04E+08	9.35E+07	2.50E+06	0
Westfield Allotment WWTP (2PA00024)	1.19E+08	1.19E+08	1.19E+08	1.19E+08	1.19E+08

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

Under low flow conditions, to provide sufficient capacity for each facility with an individual NPDES permit to discharge at design flow, all stormwater WLAs were set to zero.

a. The MOS is 10 percent in the high, moist, and mid-range flow zones but is 3 percent in the dry flow zone and 0.5 percent in the low flow zone.

b. This Elyria WWTP (3PD00034) WLA is for CSOs and only applies following storm events during the high flow zone. Additionally, the Elyria CSS must comply with its NPDES permit and its LTCP (after Ohio EPA approves its LTCP).

c. The gross WLA represents the following facilities: Beckett Gas Inc. (3GR01164), INVACARE Corp (3GR00253 and 3GR00595), Pikeview Materials LLC (3GR01924), Rolling Frito-Lay Sales LP (3GR01265), and The Shelly Company (3GR01025).

Table H-16. *E. coli* TMDL Powdermaker Ditch at RM 0.15 (HUC 04110001 06 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	4.10E+10	7.85E+09	2.48E+09	1.04E+09	5.34E+08
LA	0	0	0	0	0
WLA (sum)	3.52E+10	6.75E+09	2.14E+09	8.98E+08	4.60E+08
MOS (10%)	4.20E+09	7.85E+08	2.38E+08	1.04E+08	5.34E+07
AFG (4%)	1.64E+09	3.14E+08	9.93E+07	4.17E+07	2.04E+07
Wasteload allocations					
Avon (city) (3GQ10002) <i>MS4 stormwater</i>	1.19E+10	2.28E+09	7.20E+08	3.02E+08	1.54E+08
Avon Lake (3GQ00116) <i>MS4 stormwater</i>	2.14E+10	4.10E+09	1.30E+09	5.42E+08	2.76E+08
Avon Lake WPCC (3PD00003) CSOs ^a	0	0	0	0	0
HSTS (OHK00002)	5.59E+06	5.59E+06	5.59E+06	5.59E+06	5.59E+06
HSTS (unpermitted)	0	0	0	0	0
Industrial Stormwater (OHR00005) ^b	3.88E+08	7.42E+07	2.34E+07	9.81E+06	4.99E+06
ODOT (4GQ00000) <i>MS4 stormwater</i>	1.74E+08	3.33E+07	1.05E+07	4.41E+06	2.24E+06
Sheffield (village) (3GQ10006) <i>MS4 stormwater</i>	1.74E+08	3.33E+07	1.05E+07	4.41E+06	2.24E+06
Sheffield Lake (3GQ00056) <i>MS4 stormwater</i>	1.15E+09	2.20E+08	6.95E+07	2.91E+07	1.48E+07

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

- a. This Avon Lake WPCC (3PD00034) WLA is for CSOs and only applies following storm events during the high flow zone. The Avon Lake CSS is on track to completely separate its sanitary sewers by the year 2020; thus, the WLA is set to zero. Additionally, the Avon Lake CSS must comply with its NPDES permit and its LTCP.
- b. The gross WLA represents the following facilities: Chemtron Corporation (3GR01004), Lubrizol Advanced Materials (3GR00628), and Western Enterprises Inc. (3GR01958).

Table H-17. *E. coli* TMDL Heider Ditch at RM 0.25 (HUC 04110001 06 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	7.66E+10	1.73E+10	5.31E+09	1.93E+09	8.77E+08
LA	0	0	0	0	0
WLA (sum)	6.60E+10	1.50E+10	4.57E+09	1.66E+09	7.55E+08
MOS (10%)	7.56E+09	1.63E+09	5.31E+08	1.93E+08	8.67E+07
AFG (4%)	3.07E+09	6.94E+08	2.12E+08	7.70E+07	3.51E+07
Wasteload allocations					
Avon (city) (3GQ10002) MS4 stormwater	3.89E+10	8.79E+09	2.68E+09	9.64E+08	4.32E+08
Avon Lake (3GQ00116) MS4 stormwater	2.30E+10	5.19E+09	1.58E+09	5.69E+08	2.55E+08
Avon Lake WPCC (3PD00003) CSOs ^a	0	0	0	0	0
HSTS (OHK00002 or OHL00002)	2.23E+07	2.23E+07	2.23E+07	2.23E+07	2.23E+07
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial Stormwater (OHR00005) ^b	1.19E+09	2.68E+08	8.17E+07	2.94E+07	1.32E+07
ODOT (4GQ00000) MS4 stormwater	1.16E+09	2.63E+08	8.03E+07	2.89E+07	1.29E+07
Westlake (3GQ10013) MS4 stormwater	3.88E+08	8.78E+07	2.68E+07	9.62E+06	4.31E+06

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

- a. This Avon Lake WPCC (3PD00003) WLA is for CSOs and only applies following storm events during the high flow zone. The Avon Lake CSS is on track to completely separate its sanitary sewers by the year 2020; thus, the WLA is set to zero. Additionally, the Avon Lake CSS must comply with its NPDES permit and its LTCP.
- b. The gross WLA represents the following facilities: Chemtron Corporation (3GR00058 and 3GR01875), Cutting Dynamics Inc. (3GR01851), Kayden Corp. (3GR01393), and L & W Group Inc. (3GR01903).

Table H-18. *E. coli* TMDL for Gable Ditch at RM 0.30 (HUC 04110001 06 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	8.46E+10	1.84E+10	5.53E+09	1.90E+09	8.49E+08
LA	4.36E+08	9.48E+07	2.85E+07	9.78E+06	4.38E+06
WLA (sum)	7.23E+10	1.57E+10	4.73E+09	1.62E+09	7.26E+08
MOS (10%)	8.46E+09	1.84E+09	5.53E+08	1.90E+08	8.49E+07
AFG (4%)	3.38E+09	7.35E+08	2.21E+08	7.58E+07	3.39E+07
Wasteload allocations					
Avon Lake (3GQ00116) <i>MS4 stormwater</i>	.63E+10	1.22E+10	3.68E+09	1.26E+09	5.65E+08
Bay Village (3GQ00079) <i>MS4 stormwater</i>	1.37E+10	2.97E+09	8.94E+08	3.07E+08	1.37E+08
<i>HSTS</i> (unpermitted)	0	0	0	0	0
Lorain County Metro Parks (3GQ00013) <i>MS4 stormwater</i>	2.33E+09	5.06E+08	1.52E+08	5.22E+07	2.34E+07

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in counts of *E. coli* per day.

H-2. TP TMDLs to Address Aquatic Life Use Impairments

Table H-19. TP TMDL for Willow Creek at RM 2.85, site B01S38 (HUC 04110001 04 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	31.7	7.19	2.13	0.733	0.345
LA	23.8	5.21	1.36	0.307	0.011
WLA (sum)	5.0	1.33	0.57	0.360	0.303
MOS (5%)	1.6	0.36	0.11	0.037	0.017
AFG (4%)	1.3	0.29	0.09	0.029	0.014
Wasteload allocations					
Buckeye Partners, L.P. (3IN00059) <i>stormwater</i>	0.086	0.019	0.0049	0.00110	0.000041
<i>Construction Stormwater</i> (OHC00003)	0.086	0.019	0.0049	0.00110	0.000041
Eaton Homes (3PH00023) <i>treated effluent</i>	0.30	0.30	0.30	0.30	0.30
Eaton Homes (3PH00023) SSOs ^a	0	0	0	0	0
First Energy Generation Corp. (Westwood Ash Facility) (3IN00224)	0.71	0.16	0.041	0.0092	0.00034
Grafton (village) (3GQ00016) <i>MS4 stormwater</i>	0.76	0.17	0.044	0.0098	0.00037
<i>HSTS</i> (unpermitted)	0	0	0	0	0
<i>Industrial Stormwater</i> (OHR00005) ^b	0.17	0.037	0.0098	0.0022	0.000082
LCSWMD (3GQ10012) <i>MS4 stormwater</i>	2.8	0.61	0.16	0.036	0.0013
ODOT (4GQ00000) <i>MS4 stormwater</i>	0.028	0.0062	0.0016	0.00036	0.000014

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.

a. This Eaton Homes (3PH00023) WLA is for SSOs, which are prohibited discharges.

b. The gross WLA represents the following facilities: KMI Columbia Station Plant 530 (3GR01077), Reeds Salvage Corporation (3GR00799), and Z Men Enterprises Inc. (3GR01969).

Table H-20. TP TMDL for Unnamed tributary to Charlemont Creek (RM 0.51) at RM 0.76, site 301943 (HUC 04110001 05 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	4.12	1.20	0.681	0.589	0.530
LA	3.24	0.58	0.119	0.035	0.001
WLA (sum)	0.51	0.51	0.501	0.501	0.501
MOS (5%)	0.21	0.06	0.034	0.029	0.007
AFG (4%)	0.16	0.05	0.027	0.024	0.021
Wasteload allocations					
Construction Stormwater (OHC00003)	0.0032	0.00059	0.000119	0.000035	0.0000019
HSTS (unpermitted)	0	0	0	0	0
Wellington WWTP (3PC00014) treated effluent	0.50	0.50	0.50	0.50	0.50
Wellington WWTP (3PC00014) SSOs	0	0	0	0	0

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.

a. This Wellington WWTP (3PC00014) WLA is for SSOs, which are prohibited discharges.

Table H-21. TP TMDL for Charlemont Creek at RM 8.55, site 301938 (HUC 04110001 05 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	26.6	5.73	1.50	0.412	0.145
LA	24.1	5.20	1.36	0.374	0.131
WLA (sum)	0.1	0.01	0.01	0.001	0.001
MOS (5%)	1.3	0.29	0.07	0.021	0.007
AFG (4%)	1.1	0.23	0.06	0.016	0.006
Wasteload allocations					
Construction Stormwater (OHC00003)	0.024	0.0052	0.0014	0.00037	0.00013
HSTS (OHK00002)	0.00048	0.00048	0.00048	0.00048	0.00048
HSTS (unpermitted)	0	0	0	0	0

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.

Table H-22. TP TMDL for Charlemont Creek at HU outlet (HUC 04110001 05 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	75.5	16.7	4.54	1.83	1.02
<i>Unnamed tributary to Charlemont Creek (RM 0.51) at RM 0.76, site 301943 (HUC *05 01) TMDL (see Table H-22)</i>	4.1	1.2	0.68	0.59	0.53
<i>Charlemont Creek at RM 8.55, site 301938 (HUC *05 01) TMDL (see Table H-23)</i>	26.6	5.7	1.50	0.41	0.14
LA	40.6	8.8	2.14	0.75	0.31
WLA (sum)	0.2	0.1	0.01	0.01	0.01
MOS (5%)	2.2	0.5	0.12	0.04	0.02
AFG (4%)	1.8	0.4	0.09	0.03	0.01
Wasteload allocations					
<i>Construction Stormwater (OHC00003)</i>	0.041	0.0089	0.0021	0.00076	0.00031
<i>HSTS (OHK00002)</i>	0.00030	0.00030	0.00030	0.00030	0.00030
<i>HSTS (unpermitted)</i>	0	0	0	0	0
<i>Industrial Stormwater (OHR00005) ^a</i>	0.082	0.018	0.0043	0.00151	0.00063
<i>Wellington WTP (3IV00200)</i>	0	0	0	0	0

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.

a. The gross WLA represents the following facility: Denes Concrete Inc. (2GR01906).

Table H-23. TP TMDL for Wellington Creek at HU outlet (HUC 04110001 05 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	81.6	16.9	4.10	1.20	0.346
LA	73.9	15.1	3.5	0.87	0.104
WLA (sum)	0.3	0.3	0.22	0.22	0.211
MOS (5%)	4.1	0.8	0.20	0.06	0.017
AFG (4%)	3.3	0.7	0.16	0.05	0.014
Wasteload allocations					
Construction Stormwater (OHC00003)	0.074	0.015	0.0034	0.00080	0.000022
Findley State Park Campground (3PP00004)	0.209	0.209	0.209	0.209	0.209
HSTS (OHK00002)	0.0012	0.0012	0.0012	0.0012	0.0012
HSTS (unpermitted)	0	0	0	0	0

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.

Table H-24. TP TMDL for Elk Creek at RM 0.15, site 301945 (HUC 04110001 05 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	16.4	3.02	0.705	0.180	0.0536
LA	14.8	2.74	0.640	0.163	0.0482
WLA (sum)	0.1	0.01	0.002	0.001	0.0006
MOS (5%)	0.8	0.15	0.035	0.009	0.0027
AFG (4%)	0.7	0.12	0.028	0.007	0.0021
Wasteload allocations					
Construction Stormwater (OHC00003)	0.015	0.0027	0.00064	0.00016	0.000048
HSTS (OHK00002)	0.00048	0.00048	0.00048	0.00048	0.00048
HSTS (unpermitted)	0	0	0	0	0

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.

Table H-25. TP TMDL for Kelner Ditch at RM 1.00, site B01W15 (HUC 04110001 05 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	19.4	3.82	1.15	0.518	0.329
LA	17.2	3.17	0.73	0.170	0.002
WLA (sum)	0.4	0.31	0.31	0.301	0.301
MOS (5%) ^a	1.0	0.19	0.06	0.026	0.013
AFG (4%)	0.8	0.15	0.05	0.021	0.013
Wasteload allocations					
Construction Stormwater (OHC00003)	0.017	0.0032	0.00075	0.00017	0 ^b
HSTS (OHK00002)	0.00072	0.00072	0.00072	0.00072	0.00072
HSTS (expired or unpermitted)	0	0	0	0	0
LaGrange WWTP (3PB00061) treated effluent	0.30	0.30	0.30	0.30	0.30
LaGrange WWTP (3PB00061) SSOs ^c	0	0	0	0	0

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.

- a. The MOS is 5 percent in the high, moist, mid-range, and dry flow zones but is 4 percent in the low flow zone to provide sufficient capacity for the LaGrange WWTP (3PB00061) in the low flow zone.
- b. The construction stormwater (OHC0003) WLA is set to zero for the low flow zone to provide sufficient capacity for the LaGrange WWTP (3PB00061) in the low flow zone.
- c. This LaGrange WWTP (3PB00061) WLA is for SSOs, which are prohibited discharges.

Table H-26. TP TMDL for French Creek at RM 9.02, site B01P18 (HUC 04110001 06 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	55.1	12.7	3.70	1.07	0.383
LA	5.2	1.2	0.32	0.10	0.031
WLA (sum)	44.9	10.4	3.04	0.88	0.318
MOS (5%)	2.8	0.6	0.19	0.05	0.019
AFG (4%)	2.2	0.5	0.15	0.04	0.015
Wasteload allocations					
Avon (3GQ10002) MS4 stormwater	6.6	1.5	0.45	0.13	0.046
Construction Stormwater (OHC00003)	2.1	0.49	0.14	0.041	0.015
HSTS (OHK00002)	0.0019	0.0019	0.0019	0.0019	0.0019
HSTS (expired or unpermitted)	0	0	0	0	0
North Olmsted (3GQ10001) MS4 stormwater	1.6	0.37	0.107	0.031	0.011
North Ridgeville (3GQ10009) MS4 stormwater	34	7.9	2.3	0.66	0.24
ODOT (4GQ00000) MS4 stormwater	0.14	0.033	0.0097	0.0028	0.0010
OTC (3GQ00022) MS4 stormwater	0.34	0.078	0.023	0.0065	0.0023
Westlake (3GQ10013) MS4 stormwater	0.048	0.011	0.0032	0.00093	0.00033

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.

Table H-27. TP TMDL for Black River at RM 9.80, site 501510 (HUC 04110001 06 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	2,059	483	149	63.6	37.7
Background load from WFEBBR at RM 8.90.	76	16	4	0.9	0.2
Willow Creek at RM 2.85, site B01S38 (*04 03) TMDL (see Table H-21)	32	7	2	0.7	0.3
Charlemont Creek at HU outlet (*05 01) TMDL (see Table H-24)	76	17	5	1.8	1.0
Wellington Creek at HU outlet (HUC 05 03) TMDL (see Table H-25)	82	17	4	1.2	0.3
Elk Creek at RM 0.15, site 301945 (*05 06) TMDL (see Table H-26)	16	3	1	0.2	0.1
Kelner Ditch at RM 1.00, site B01W15 (*05 06) TMDL (see Table H-27)	19	4	1	0.5	0.3
LA	1,245	280	73	20.6	5.2
WLA (sum)	355	101	47	32.5	27.1
MOS (5%)	88	21	7	2.9	1.8

AFG (4%)	70	17	5	2.3	1.4
Wasteload allocations ^a					
Al Nimer (Medina Meats) (3IH00110)	0.0242	0.0242	0.0242	0.0242	0.0242
A-1 Construction Apartments (3PW00027)	0.0250	0.0250	0.0250	0.0250	0.0250
Black River Local School District Sterling Education Cleveland Site (3PT00015)	0.209	0.209	0.209	0.209	0.209
Brentwood Lake (3PH00024) <i>treated effluent</i>	0.70	0.70	0.70	0.70	0.70
Brentwood Lake (3PH00024) SSOs ^b	0	0	0	0	0
Butternut Ridge Apartments (3PW00033)	0.0125	0.0125	0.0125	0.0125	0.0125
Chatham Township Community Center (3PT00092)	0.0250	0.0250	0.0250	0.0250	0.0250
Circle K No. 5312 (3PR00434)	0.0125	0.0125	0.0125	0.0125	0.0125
Construction Stormwater (OHC00003)	16	3.5	0.94	0.26	0 ^f
Country Stage Campground (2PR00121)	0.050	0.050	0.050	0.050	0.050
Crane Aerospace (Lear Romec Division) (3IS00118) ^c	0	0	0	0	0
Don Porter (The Activity Center) (3PR00487)	0.0192	0.0192	0.0192	0.0192	0.0192
Drema Hawkins (D'Tanglez Studio) (3PR00326)	0.0125	0.0125	0.0125	0.0125	0.0125
Educational Service Center of Lorain County (3PT00104)	0.073	0.073	0.073	0.073	0.073
Elyria (3GQ00082) MS4 stormwater	98	22	5.8	1.6	0 ^f
Elyria Airport (3PR00788)	0.00834	0.00834	0.00834	0.00834	0.00834
Elyria Hauling Company (3PR00185)	0.058	0.058	0.058	0.058	0.058
Elyria Foundry Company, LLC (3ID00070) stormwater	1.6	0.35	0.094	0.026	0 ^f
Elyria WWTP (3PD00034) <i>treated effluent</i>	18	18	18	18	18
Elyria WWTP (3PD00034) CSOs	1.8	0	0	0	0
EMSNET Business Center (3PT00103)	0.055	0.055	0.055	0.055	0.055
Free Enterprises, Inc. (3GS00145)	0.00232	0.00232	0.00232	0.00232	0.00232
Grafton (village) (3GQ00016) MS4 stormwater	23	5.2	1.4	0.38	0 ^f
Grafton WWTP (3PB00024) <i>treated effluent</i>	2.6	2.6	2.6	2.6	2.6
Grafton WWTP (3PB00024) SSOs ^b	0	0	0	0	0
Hetal Patel (3PR00191)	0.0167	0.0167	0.0167	0.0167	0.0167
HSTS (OHK00002 or OHL00002)	0.062	0.062	0.062	0.062	0.062
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial Stormwater (OHR00005) ^e	6.3	1.4	0.37	0.103	0 ^f
James Dixon (Butternut Ridge Apartments) (3PW00033)	0.0125	0.0125	0.0125	0.0125	0.0125
Julian W. Perkins, Inc. (3GB00004) ^c	0	0	0	0	0
Kalt Manufacturing Company (3IS00079)	0.0417	0.0417	0.0417	0.0417	0.0417
Kraft Food Global, Inc. (3IN00340) ^c	0	0	0	0	0
LCSWMD (3GQ10012) MS4 stormwater	102	23	6.1	1.7	0 ^f
Litchfield Preschool Daycare Center (3PT00099)	0.075	0.075	0.075	0.075	0.075
Lodi WWTP (3PB00027)	1.4	1.4	1.4	1.4	1.4

Lorain County Landfill, LLC (3IN00335)	14	3.2	0.84	0.23	0 ^f
Lorain County MetroParks (Forest Hills Country Club) (3PZ00055)	0.0417	0.0417	0.0417	0.0417	0.0417
Lorain County Metro Parks (3GQ00013) <i>MS4 stormwater</i>	4.6	1.05	0.28	0.076	0 ^f
Lorain County Resource Recovery Complex (3PR00394)	0.067	0.067	0.067	0.067	0.067
North Ridgeville (3GQ10009) <i>MS4 stormwater</i>	54	12	3.2	0.89	0 ^f
Oberlin WEPF (3PD00025)	2.6	2.6	2.6	2.6	2.6
Oberlin WTP (3IW00061)	0	0	0	0	0
ODOT (4GQ00000) <i>MS4 stormwater</i>	3.1	0.70	0.18	0.051	0 ^f
OTC (3GQ00022) <i>MS4 stormwater</i>	1.5	0.35	0.092	0.025	0 ^f
The Premcor Refining Group (3GU00376) ^c	0	0	0	0	0
Rowland Enterprises (Butternut Terrace Apartments) (3PW00038)	0.063	0.063	0.063	0.063	0.063
Spencer Forge and Manufacturing Company (3IS00087) ^c	0.0361	0.0361	0.0361	0.0361	0.0361
Spencer WWTP (3PA00018) <i>treated effluent</i>	0.53	0.53	0.53	0.53	0.53
Spencer WWTP (3PA00018) SSOs ^b	0	0	0	0	0
Town and Country Co-op, Inc. (3IG00085) <i>stormwater</i>	1.6	0.35	0.094	0.026	0 ^f
Westfield Allotment WWTP (3PA00024)	0.209	0.209	0.209	0.209	0.209
Wild Wood Lakes Campground (3GS00018)	0.00232	0.00232	0.00232	0.00232	0.00232

Notes

- a. The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TP per day.
- b. These WLAs [Brentwood Lake (3PH00024), Grafton WWTP (3PB00024), and Spencer WWTP (3PA00018)] are for SSOs, which are prohibited discharges.
- c. Crane Aerospace (Lear Romec Division) (3IS00118; NCCW), Julian W. Perkins, Inc. (3GB00004; petroleum bulk storage facility), Kraft Food Global, Inc. (3IN00340; treated groundwater, building sump water), the Premcor Refining Group (3GU00376; petroleum-related corrective action), and Spencer Forge and Manufacturing Company (3IS00087; process water) are not permitted to discharge TP.
- d. Free Enterprises, Inc. (3GS00145) and Wild Wood Lakes Campground (3GS00018) are covered by the *General Permit for Small Discharges of Sanitary Wastewater (25,000 Gallons per Day or Less)* and the WLA in this allocation table was calculated using a TP concentration of 0.2 mg/L. The general NPDES permit requires TP monitoring. The specific WLAs in this allocation table will not be incorporated into the general permit.
- e. The gross WLA represents the following facilities: A & H Metals Inc. (3GR00820), Alexis Concrete Enterprise Inc. (3GR01118), A1 Rebuildable Wrecks (3GR00070), Bailey Manufacturing Co. (3GR00041), Beckett Gas Inc. (3GR01164), Bendix Commercial Vehicle Systems (3GR00542), Consumers Builders Supply Co. Inc. (3GR01542), CSM Horvath Lodi (3GR01558), CSX Transportation Inc. (3GR00772), Dura-Line of Elyria (3GR01877), Elyria Concrete Inc. (3GR01249), Howards Nursery Inc. (3GR00268), INVACARE Corp (3GR00253 and 3GR00595), Lake Terminal Railroad Co. (3GR01336), Northern Ohio Industrial Park (3GR01400), Pikeview Materials LLC (3GR01924), Plasto-Tech Corp. (3GR00687), RACER-Elyria (3GR01893), Real Alloy Specialty Products Inc. (3GR00615), Rolling Frito-Lay Sales LP (3GR01265), The Shelly Company (3GR01025), Stein Inc. (3GR01574), Sugar Ridge Inc. (3GR01243), United Initiators Inc. (3GR00268), and Wm. Dauch Concrete Co. (3GR00802).
- f. Stormwater WLAs were set to zero in the low flow zone to provide sufficient capacity for facilities with individual NPDES permits in the low flow zone.

H-3. TSS TMDLs to Address Aquatic Life Use Impairments

Table H-28. TSS TMDL for East Fork East Branch Black River at RM 0.06, site B01W10 (HUC 04110001 03 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	10,713	2,543	781	317	135
LA	9,598	2,217	624	204	41
WLA (sum)	150	97	87	84	82
MOS (5%)	536	127	39	16	7
AFG (4%)	429	102	31	13	5
Wasteload allocations					
<i>Construction Stormwater</i> (OHC00003)	39	9.0	3.0	1.15	0.49
Chatham Township Community Center (3PT00092)	0.30	0.30	0.30	0.30	0.30
<i>HSTS</i> (OHK00002)	0.76	0.76	0.76	0.76	0.76
<i>HSTS</i> (unpermitted)	0	0	0	0	0
<i>Industrial Stormwater</i> (OHR00005)	29	6.9	2.1	0.86	0.36
Lodi WWTP (3PB00027)	80	80	80	80	80

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TSS per day.
a. The gross WLA represents the following facilities: Bailey Manufacturing Co. (3GR00041) and CSM Horvath Lodi (3GR01558).

Table H-29. TSS TMDL for East Branch Black River at RM 41.45, site B01S34 (HUC 04110001 03 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	40,352	9,041	2,542	878	370
<i>EFEBBR at RM 5.84, site B01W12 (HUC *03 01) TMDL</i> (see Table H-30)	10,713	2,543	781	317	135
LA	26,833	5,880	1,592	505	209
WLA (sum)	138	33	11	6	5
MOS (5%)	1,482	325	88	28	12
AFG (4%)	1,186	260	70	22	9
Wasteload allocations					
Sterling Education Cleveland Site (3PT00015)	3.0	3.0	3.0	3.0	3.0
Construction Stormwater (OHC00003)	108	24	6.0	2.0	1.0
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial Stormwater (OHR00005) ^a	27	5.9	1.6	0.51	0.21

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TSS per day.

a. The gross WLA represents the following facilities: CSX Transportation Inc. (3GR00772) and United Initiators Inc. (3GR00268).

Table H-30. TSS TMDL for Willow Creek at RM 2.85, site B01S38 (HUC 04110001 04 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	9,892	2,246	666	229	108
LA	8,203	1,849	535	172	72
WLA (sum)	798	195	71	37	27
MOS (5%)	495	112	33	11	5
AFG (4%)	396	90	27	9	4
Wasteload allocations ^a					
Buckeye Partners, L.P. (3IN00059) <i>stormwater</i>	27	6.0	2.0	0.56	0.23
<i>Construction Stormwater</i> (OHC00003)	36	8.0	2.0	0.75	0.31
Eaton Homes (3PH00023) <i>treated effluent</i>	20	20	20	20	20
Eaton Homes (3PH00023) <i>SSOs</i> ^b	0	0	0	0	0
First Energy Generation Corp. (Westwood Ash Facility) (3IN00224)	225	51	15	5.0	2.0
Grafton (village) (3GQ00016) <i>MS4 stormwater</i>	400	90	26	8.0	3.0
<i>HSTS</i> (unpermitted)	0	0	0	0	0
<i>Industrial Stormwater</i> (OHR00005) ^c	54	12	4.0	1.0	0.47
LCSWMD (3GQ10012) <i>MS4 stormwater</i>	36	8.0	2.0	0.75	0.31
ODOT (4GQ00000) <i>MS4 stormwater</i>	27	6.0	2.0	0.56	0.23

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds per day.

- a. While a portion of this TMDL subwatershed is within Grafton Township, which is covered by a *Small MS4* permit, that portion of the TMDL subwatershed is not within the combined 2000 and 2010 Census *Urbanized Areas*.
- b. This Eaton Homes (3PH00023) WLA is for SSOs, which are prohibited discharges.
- c. The gross WLA represents the following facilities: KMI Columbia Station Plant 530 (3GR01077), Reeds Salvage Corporation (3GR00799), and Z Men Enterprises Inc. (3GR01969).

Table H-31. TSS TMDL for East Branch Black River at HU outlet (HUC 04110001 04 04)

Duration interval	High 5%	Moist 25%	Mid-range 50%	Dry 75%	Low 95%
Allocations					
TMDL	137,888	31,957	8,592	2,816	1,085
<i>EBBR at RM 41.45, site B01S34 (HUC *03 03) TMDL</i> (see Table H-31)	40,352	9,041	2,542	878	370
<i>Willow Creek at RM 2.85, site B01S38 (HUC *04 03) TMDL</i> (Table H-32)	9,892	2,246	666	229	108
LA	68,114	15,944	4,041	1,178	321
WLA (sum)	11,642	2,865	859	378	232
MOS (5%)	4,382	1,034	269	85	30
AFG (4%)	3,506	827	215	68	24
Wasteload allocations ^a					
Al Nimer (Medina Meats) (3IH00110)	0.29	0.29	0.29	0.29	0.29
Brentwood Lake (3PH00024) <i>treated effluent</i>	12	12	12	12	12
Brentwood Lake (3PH00024) <i>SSOs</i> ^b	0	0	0	0	0
<i>Construction Stormwater</i> (OHC00003)	318	75	19	6.0	1.49
Crane Aerospace (Lear Romec Division) (3IS00118) ^c	0	0	0	0	0
Don Porter (The Activity Center) (3PR00487)	0.23	0.23	0.23	0.23	0.23
Elyria (3GQ00082) <i>MS4 stormwater</i>	2,450	574	145	42	11
Elyria Airport (3PR00788)	0.10	0.10	0.10	0.10	0.10
Elyria Hauling Company (3PR00185)	0.70	0.70	0.70	0.70	0.70
EMSNET Business Center (3PT00103)	0.66	0.66	0.66	0.66	0.66
Free Enterprises, Inc. (3GS00145) ^d	0.028	0.028	0.028	0.028	0.028
Grafton (village) (3GQ00016) <i>MS4 stormwater</i>	2,213	518	131	38	10.0
Grafton WWTP (3PB00024) <i>treated effluent</i>	150	150	150	150	150
Grafton WWTP (3PB00024) <i>SSOs</i> ^b	0	0	0	0	0
<i>HSTS</i> (OHK00002 or OHL00002)	4.2	4.2	4.2	4.2	4.2
<i>HSTS</i> (expired or unpermitted)	0	0	0	0	0
<i>Industrial Stormwater</i> (OHR00005) ^e	239	56	14	4.0	1.1
James Dixon (Butternut Ridge Apartments) (3PW00033)	0.15	0.15	0.15	0.15	0.15
LCSWMD (3GQ10012) <i>MS4 stormwater</i>	5,373	1,258	319	93	25
Litchfield Preschool Daycare Center (3PT00099)	0.90	0.90	0.90	0.90	0.90
North Ridgeville (3GQ10009) <i>MS4 stormwater</i>	711	167	42	12.0	3.3
ODOT (4GQ00000) <i>MS4 stormwater</i>	158	37	9.0	3.0	0.74
The Premcor Refining Group (3GU00376) ^c	0	0	0	0	0
Rowland Enterprises (Butternut Terrace Apartments) (3PW00038)	0.75	0.75	0.75	0.75	0.75

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Spencer Forge and Manufacturing Company (3IS00087) ^c	0	0	0	0	0
Spencer WWTP (3PA00018) <i>treated effluent</i>	9.0	9.0	9.0	9.0	9.0
Spencer WWTP (3PA00018) SSOs ^b	0	0	0	0	0

Notes

- The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TSS per day.
- a. Alco Manufacturing Corp. LLC (3IS00123) formerly discharged to an unnamed tributary of the East Branch Black River; in April 2013 the facility connected to public sewers.
 - b. These Brentwood Lake (3PH00024), Grafton WWTP (3PB00024), and Spencer WWTP (3PA00018) WLAs are for SSOs, which are prohibited discharges.
 - c. Crane Aerospace (Lear Romec Division) (3IS00118; NCCW), the Premcor Refining Group (3GU00376; petroleum-related corrective action), and Spencer Forge and Manufacturing Company (3IS00087; process water) are not permitted to discharge TSS.
 - d. Free Enterprises, Inc. (3GS00145) is covered by the *General Permit for Small Discharges of Sanitary Wastewater (25,000 Gallons per Day or Less)* and the WLA in this allocation table was calculated using the TSS concentration limits in the general permit. The specific WLAs in this allocation table will not be incorporated into the general permit.
 - e. The gross WLA represents the following facilities: Alco Manufacturing Corporation LLC (3GR01023), Alexis Concrete Enterprise Inc. (3GR01118), Applied Specialties Inc. (3GR00141), Bendix Commercial Vehicle Systems (3GR00542), Bluestar Metal Recycling (3GR00735), Elyria Hauling Co. (3GR01567), Gasflux Co (3GR01274), Grafton Ready Mix (3GR01538), Lear Romec Div. Crane Co. (3GR00314), Medusa Concrete Corporation (3GR01885), Motorheads Garage & Machine Shop (3GR01930), and Stein Inc. (3GR01574).

Table H-32. TSS TMDL for West Branch Black River at HU outlet (HUC 04110001 05 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	25,214	5,176	1,213	335	96.8
LA	22,897	4,700	1,100	303	87.1
WLA (sum)	47	10	3	2	1.0
MOS (5%)	1,261	259	61	17	4.8
AFG (4%)	1,009	207	49	13	3.9
Wasteload allocations					
Construction Stormwater (OHC00003)	46	9	2	1	0.17
Country Stage Campground (2PR00121)	0.60	0.60	0.60	0.60	0.60
HSTS (OHK00002)	0.22	0.22	0.22	0.22	0.22
HSTS (unpermitted)	0	0	0	0	0

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TSS per day.

Table H-33. TSS TMDL for West Branch Black River at HU outlet (HUC 04110001 05 04)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	55,459	11,590	2,885	956	357
West Branch Black River at HU outlet (HUC *05 02) TMDL (see Table H-34)	25,214	5,176	1,213	335	97
LA	26,932	5,634	1,397	457	135
WLA (sum)	591	202	124	108	102
MOS (5%)	1,512	321	84	31	13
AFG (4%)	1,210	257	67	25	10
Wasteload allocations ^a					
Construction Stormwater (OHC00003)	55	11	3.0	0.94	0.28
HSTS (OHK00002)	0.27	0.27	0.27	0.27	0.27
HSTS (expired or unpermitted)	0	0	0	0	0
Industrial Stormwater (OHR00005) ^b	27	6.0	1.0	0.47	0.14
Oberlin (3GQ00080) MS4 stormwater	383	80	20	7.0	2.0
ODOT (4GQ00000) MS4 stormwater	27	6.0	1.0	0.47	0.14
Richard House (A-1 Construction Apartments) (3PW00027)	0.30	0.30	0.30	0.30	0.30
Wellington WTP (3IV00200)	4.0	4.0	4.0	4.0	4.0
Wellington WWTP (3PC00014) treated effluent	94	94	94	94	94
Wellington WWTP (3PC00014) SSOs ^c	0	0	0	0	0

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TSS per day.

a. Sterling Foundry Inc. (3ID00052) no longer operates and its last permit expired in 2006.

b. The gross WLA represents the following facilities: Denes Concrete Inc. (2GR01906), Sectional Stamping Inc. (Shiloh Wellington) (3GR00053).

c. This Wellington WWTP (3PC00014) WLA is for SSOs, which are prohibited discharges.

Table H-34. TSS TMDL for Plum Creek at RM 2.80, site B01S10 (HUC 04110001 05 05)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	3,387	822	354	228	197
LA	1,615	329	94	32	15
WLA (sum)	1,468	419	228	176	164
MOS (5%)	169	41	18	11	10
AFG (4%)	135	33	14	9	8
Wasteload allocations^b					
<i>Construction Stormwater (OHC00003)</i>	6.0	1.0	0.34	0.11	0.057
<i>HSTS (OHK00002)</i>	0.16	0.16	0.16	0.16	0.16
<i>HSTS (unpermitted)</i>	0	0	0	0	0
<i>Oberlin (3GQ00080) MS4 stormwater</i>	1,296	264	76	25	13
<i>Oberlin WEPF (3PD00025)</i>	150	150	150	150	150
<i>ODOT (4GQ00000) MS4 stormwater</i>	15	3.0	0.86	0.28	0.14

Note: The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TSS per day.

Table H-35. TSS TMDL for West Branch Black River at RM 7.68, site B01S10 (HUC 04110001 05 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	99,068	21,138	5,892	2,047	1,038
<i>West Branch Black River at HU outlet (HUC *05 04) TMDL</i> (see Table H-35)	55,459	11,590	2,885	956	357
<i>Plum Creek at RM 2.80, site B01S10 (HUC *05 05) TMDL</i> (see Table H-36)	3,387	822	354	228	197
LA	35,898	7,753	2,325	726	388
WLA (sum)	704	188	89	59	53
MOS (5%)	2,011	436	133	43	24
AFG (4%)	1,609	349	106	35	19
Wasteload allocations					
<i>Construction Stormwater (OHC00003)</i>	73	16	5.0	1.0	0.77
<i>Drema Hawkins (D'Tanglez Studio) (3PR00326)</i>	0.15	0.15	0.15	0.15	0.15
<i>Educational Service Center of Lorain County (3PT00104)</i>	0.88	0.88	0.88	0.88	0.88
<i>Findley State Park Campground (3PP00004)</i>	3.0	3.0	3.0	3.0	3.0
<i>HSTS (OHK00002)</i>	0.70	0.70	0.70	0.70	0.70
<i>HSTS (expired or unpermitted)</i>	0	0	0	0	0
<i>Industrial Stormwater (OHR00005) ^a</i>	37	8.0	2.0	0.73	0.39
<i>LaGrange WWTP (3PB00061)</i>	36	36	36	36	36
<i>Lorain County Landfill, LLC (3IN00335)</i>	548	118	35	11.0	6.0
<i>Lorain County Resource Recovery Complex (3PR00394)</i>	0.80	0.80	0.80	0.80	0.80
<i>Oberlin WTP (3IW00061)</i>	4.0	4.0	4.0	4.0	4.0

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in pounds of TSS per day.

a. The gross WLA represents the following facilities: Consumer Building Supply Co. Inc. (3GR01542), Lake Terminal Railroad (2GR01336).

b. This Wellington WWTP (3PC00014) WLA is for SSOs, which are prohibited discharges.

H-4. TDS TMDL to Address Life Use Impairment

Table H-36. TDS TMDL for Black River at RM 9.80, site 501510 (HUC 04110001 06 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	9,084	2,131	656	281	166
<i>Upstream boundary condition</i> ^a	6,051	1,177	328	139	73
LA	88	26	8	4	1
WLA (sum)	2,672	842	291	125	83
MOS (5%)	152	48	16	7	5
AFG (4%)	121	38	13	6	4
Wasteload allocations					
Elyria (3GQ00082) <i>MS4 stormwater</i>	1,080	318	88	18 ^d	0.72 ^e
Elyria WWTP (3PD00034) <i>treated effluent</i>	81	81	81	81	81
Elyria WWTP (3PD00034) <i>CSOs</i> ^b	7.9	0	0	0	0
<i>HSTS</i> (OHK00002 or OHL00002)	0.025	0.025	0.025	0.025	0.025
<i>HSTS</i> (expired or unpermitted)	0	0	0	0	0
<i>Industrial Stormwater</i> (OHR00005) ^c	37	11	3.0	0.63 ^d	0.025 ^e
Kalt Manufacturing Company (3IS00079)	0.031	0.031	0.031	0.031	0.031
LCSWMD (3GQ10012) <i>MS4 stormwater</i>	108	32	8.8	1.8 ^d	0.072 ^e
Lorain County Metro Parks (3GQ00013) <i>MS4 stormwater</i>	119	35	9.6	2.0 ^d	0.079 ^e
North Ridgeville (3GQ10009) <i>MS4 stormwater</i>	1,209	356	98	20 ^d	0.81 ^e
ODOT (4GQ00000) <i>MS4 stormwater</i>	7.9	2.3	0.64	0.13 ^d	0.0053 ^e
OTC (3GQ00022) <i>MS4 stormwater</i>	21	6.2	1.7	0.36 ^d	0.014 ^e
Westfield Allotment WWTP (3PA00024)	0.16	0.16	0.16	0.16	0.16

Notes

The allocation table components and structure are explained on page H-4, acronyms are defined on page H-5, and the loads are in short tons of TDS per day.

a. The upstream boundary condition is set to the confluence of EBBR (HUC 04110001 04 04) and WBBR (HUC 04110001 05 06).

b. This Elyria WWTP (3PD00034) WLA is for CSOs and only applies following storm events during the high flow zone. Additionally, the Elyria CSS must comply with its NPDES permit and its LTCP (after Ohio EPA approves its LTCP).

c. The gross WLA represents the following facilities: Beckett Gas Inc. (3GR01164), INVACARE Corp (3GR00253 and 3GR00595), Pikeview Materials LLC (3GR01924), Rolling Frito-Lay Sales LP (3GR01265), and The Shelly Company (3GR01025).

d. Stormwater WLAs were reduced by 5 percent in the dry conditions flow zone to provide sufficient capacity for the allocation of an LA in the dry conditions flow zone.

e. Stormwater WLAs were reduced by 50 percent in the low flow zone to provide sufficient capacity for the allocation of an LA in the low flow zone.