

Appendix H.
TMDLs to Address Impairments

Contents

H-1	<i>E. coli</i> TMDLs to Address Recreation Use Impairments	H-6
H-2	Total Phosphorus TMDLs to Address Aquatic Life Use Impairments	H-17
H-3	Total Suspended Solids TMDLs to Address Aquatic Life Use Impairments	H-25

Tables

Table H-1.	<i>E. coli</i> TMDL for West Branch Fish Creek at HU outlet (HUC 04100003 04 01)	H-6
Table H-2.	<i>E. coli</i> TMDL for Fish Creek at HU outlet (HUC 04100003 04 02).....	H-6
Table H-3.	<i>E. coli</i> TMDL for Hiram Sweet Ditch at HU outlet (HUC 04100003 04 04)	H-7
Table H-4.	<i>E. coli</i> TMDL for Fish Creek at HU outlet (HUC 04100003 04 05).....	H-7
Table H-5.	<i>E. coli</i> TMDL for Fish Creek at Indiana-Ohio state line (HUC 04100003 04 06)	H-8
Table H-6.	<i>E. coli</i> TMDL for Big Run at Indiana-Ohio state line (HUC 04100003 05 02).....	H-8
Table H-7.	<i>E. coli</i> TMDL for Cedar Creek at HU outlet (HUC 04100003 06 01)	H-9
Table H-8.	<i>E. coli</i> TMDL for Cedar Creek at HU outlet (HUC 04100003 06 02)	H-10
Table H-9.	<i>E. coli</i> TMDL for Cedar Creek at HU outlet (HUC 04100003 06 04)	H-11
Table H-10.	<i>E. coli</i> TMDL for Peckhart Ditch at confluence with John Diehl Ditch (HUC 04100003 07 02)	H-12
Table H-11.	<i>E. coli</i> TMDL for Black Creek at HU outlet (HUC 04100003 07 04)	H-12
Table H-12.	<i>E. coli</i> TMDL for Little Cedar Creek at HU outlet (HUC 04100003 07 05).....	H-13
Table H-13.	<i>E. coli</i> TMDL for Willow Creek at HU outlet (HUC 04100003 07 06).....	H-13
Table H-14.	<i>E. coli</i> TMDL for Cedar Creek at HU outlet (HUC 04100003 07 07)	H-14
Table H-15.	<i>E. coli</i> TMDL for St. Joseph River just upstream of confluence of Bear Creek (HUC 04100003 08 02)	H-15
Table H-16.	<i>E. coli</i> TMDL for St. Joseph River at HU outlet (HUC 04100003 08 03)	H-16
Table H-17.	TP TMDL for Fish Creek at HU outlet (HUC 04100003 04 05).....	H-17
Table H-18.	TP TMDL for Fish Creek at Indiana-Ohio state line (HUC 04100003 04 06).....	H-17
Table H-19.	TP TMDL for Cedar Creek at HU outlet (HUC 04100003 06 01).....	H-18
Table H-20.	TP TMDL for Cedar Creek at HU outlet (HUC 04100003 06 02).....	H-19
Table H-21.	TP TMDL for Unnamed tributary to Mason Ditch at the confluence with Mason Ditch (HUC 04100003 06 03)	H-20
Table H-22.	TP TMDL for Peckhart Ditch at confluence with John Diehl Ditch (HUC 04100003 07 02) H-.....	20
Table H-23.	TP TMDL for Cedar Creek at HU outlet (HUC 04100003 07 07).....	H-21
Table H-24.	TP TMDL for St. Joseph River at HU outlet (HUC 04100003 08 06).....	H-23
Table H-25.	TSS TMDL for Fish Creek at HU outlet (HUC 04100003 04 05)	H-25
Table H-26.	TSS TMDL for Fish Creek at Indiana-Ohio state line (HUC 04100003 04 06).....	H-25
Table H-27.	TSS TMDL for Peckhart Ditch at confluence with John Diehl Ditch (HUC 04100003 07 02).....	H-26
Table H-28.	TSS TMDL for Black Creek at HU outlet (HUC 04100003 07 04).....	H-27
Table H-29.	TSS TMDL for Little Cedar Creek at HU outlet (HUC 04100003 07 05)	H-27
Table H-30.	TSS TMDL for Cedar Creek at HU outlet (HUC 04100003 07 07).....	H-28
Table H-31.	TSS TMDL for St. Joseph River at HU outlet (HUC 04100003 08 06).....	H-30

Acronyms and Abbreviations

*	hydrologic unit code 04100003
AFG	allocation for future growth
CAFO	concentrated animal feeding operation
CSO	combined sewer overflow
CSS	combined sewer system
HU	hydrologic unit
HUC	hydrologic unit code
LA	load allocation
LTCP	long term control plan
MOS	margin of safety
NCCW	non-contact cooling water
NPDES	National Pollutant Discharge Elimination System
RSD	regional sewer district
SJR	St. Joseph River
SSO	sanitary sewer overflow
TMDL	total maximum daily load
TP	total phosphorus
WLA	wasteload allocation
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), any nested TMDLs, and any upstream state contributions.
- The WLA (sum) row is the summation of individual and gross WLAs presented in the *Wasteload allocation* section of each table (see discussion below).
- In some cases, a TMDL subwatershed is within two or more states.
 - If the impairments are in both Ohio and Indiana, only a TMDL for the Indiana-portion was developed for this report.
 - If the impaired Indiana segment flows into an impaired Ohio watershed assessment unit, then an Indiana TMDL was developed at the Indian-Ohio state line.
 - If an impaired Ohio watershed assessment unit discharges to an impaired Indiana segment, then a TMDL was developed at the mouth of the subwatershed in Indiana. The Ohio TMDL was then referenced within the Indiana TMDL.
 - If the impairment is in only in Indiana (and not Ohio), then an *Ohio upstream contribution* was set for the Ohio portion in the Indiana TMDL.
 - *Upstream state contributions* were not further delineated into LAs, WLA, MOS, or AFG in the Indiana TMDLs.
- The LA, WLAs, MOS and AFG were based upon the area within Indiana.
- The LA, WLA (sum), MOS, AFG, and any nested TMDLs were rounded to the same digit as the TMDL, which often varied between flow zones of the same TMDL. *E. coli* allocations are rounded to the third significant digit in scientific notation.

Wasteload allocation section

- The individual and gross WLAs were rounded to the last digit of the TMDL.
- For a TMDL containing *upstream state contributions* or nested TMDLs, the WLAs reported in this section are for point sources in the TMDL subwatershed that are downstream of the state border (for *upstream state contributions*) or downstream of the nested TMDL.
- 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.

- Concentrated animal feeding operations (CAFOs) in Indiana are prohibited from discharging to surface waterbodies; their WLAs are zero. Ohio has no CAFOs in the St. Joseph River watershed. Michigan has a single CAFO; it does not receive an explicit WLA because no TMDLs were developed in Michigan.
- WLAs were not developed for facilities with terminated or inactive permits.

H-1 *E. coli* TMDLs to Address Recreation Use Impairments**Table H-1. *E. coli* TMDL for West Branch Fish Creek at HU outlet (HUC 04100003 04 01)**

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.96E+11	6.96E+10	2.16E+10	5.72E+09	2.11E+09
LA	1.67E+11	5.92E+10	1.84E+10	4.86E+09	1.79E+09
WLA ^a	0	0	0	0	0
MOS (10%)	1.96E+10	6.96E+09	2.16E+09	5.72E+08	2.11E+08
AFG (5%)	9.82E+09	3.48E+09	1.08E+09	2.86E+08	1.05E+08

Notes

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

a. No NPDES permittees are in the TMDL subwatershed.

Table H-2. *E. coli* TMDL for Fish Creek at HU outlet (HUC 04100003 04 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.55E+11	6.15E+10	1.78E+10	4.66E+09	1.83E+09
Ohio's <i>Fish Creek at Ohio-Indiana state line TMDL</i> (*04 02) ^a	1.42E+11	4.85E+10	1.40E+10	4.04E+09	1.23E+09
LA ^b	1.09E+10	1.11E+10	3.22E+09	5.25E+08	5.12E+08
WLA ^c	0	0	0	0	0
MOS (10%) ^b	1.28E+09	1.30E+09	3.79E+08	6.18E+07	6.02E+07
AFG (5%) ^b	6.42E+08	6.48E+08	1.89E+08	3.09E+07	3.01E+07

Notes

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

a. A small portion of the HUC12 in Indiana drains to Ohio and this load is included in Ohio's TMDL.

b. The LA, MOS, and AFG are allocated for the Indiana-portion of this TMDL subwatershed that is downstream Ohio's *Fish Creek at Ohio-Indiana state line* (HUC 04100003 04 02) TMDL

c. No NPDES permittees are in the TMDL subwatershed downstream of Ohio's *Fish Creek at Ohio-Indiana state line* (HUC 04100003 04 02) TMDL.

Table H-3. *E. coli* TMDL for Hiram Sweet Ditch at HU outlet (HUC 04100003 04 04)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	5.11E+11	1.72E+11	5.49E+10	1.78E+10	9.02E+09
LA	4.31E+11	1.44E+11	4.44E+10	1.30E+10	5.53E+09
WLA	3.00E+09	2.42E+09	2.22E+09	2.16E+09	2.14E+09
MOS (10%)	5.11E+10	1.72E+10	5.49E+09	1.78E+09	9.02E+08
AFG (5%)	2.56E+10	8.61E+09	2.75E+09	8.92E+08	4.51E+08
Wasteload allocations					
Hamilton Lake Conservancy District (IN0050322)	2.13E+09	2.13E+09	2.13E+09	2.13E+09	2.13E+09
Hamilton Lake Water Works (IN0060216) ^a	--	--	--	--	--
Industrial stormwater ^b	8.65E+08	2.89E+08	8.91E+07	2.61E+07	1.11E+07

Notes

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

a. Hamilton Lake Water Works (IN0060216) is not expected to be a source of *E. coli*.

b. The gross WLA represents the following facilities: AZZ Galvanizing (INRM01504) and Rieke Packaging System (INRM01907).

Table H-4. *E. coli* TMDL for Fish Creek at HU outlet (HUC 04100003 04 05)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	5.62E+11	1.96E+11	5.93E+10	2.61E+10	8.97E+09
Ohio upstream contribution ^a	3.34E+10	1.12E+10	3.73E+09	6.42E+08	2.45E+08
Fish Creek at HU outlet (HUC *04 01) TMDL (see Table H-1)	1.96E+11	6.96E+10	2.16E+10	5.72E+09	2.11E+09
Fish Creek at HU outlet (HUC *04 02) TMDL (see Table H-2)	1.55E+11	6.15E+10	1.78E+10	4.66E+09	1.83E+09
LA ^b	1.46E+11	4.43E+10	1.32E+10	1.27E+10	4.03E+09
WLA ^c	0	0	0	0	0
MOS (10%) ^b	2.11E+10	6.53E+09	1.99E+09	1.57E+09	5.03E+08
AFG (5%) ^b	1.05E+10	3.26E+09	1.00E+09	7.85E+08	2.51E+08

Notes

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

a. The Ohio portion of this TMDL subwatershed is 16 percent of the TMDL subwatershed downstream of the nested TMDLs.

b. The LA, MOS, and AFG are allocated for the Indiana-portion of this TMDL subwatershed downstream of the nested TMDLs.

c. No NPDES permittees are in the TMDL subwatershed.

Table H-5. *E. coli* TMDL for Fish Creek at Indiana-Ohio state line (HUC 04100003 04 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.22E+12	4.32E+11	1.38E+11	5.38E+10	1.87E+10
<i>Hiram Sweet Ditch at HU outlet (*04 04) TMDL</i> (see Table H-3)	5.11E+11	1.72E+11	5.49E+10	1.78E+10	9.02E+09
<i>Fish Creek at HU outlet (*04 05) TMDL</i> (see Table H-4)	5.62E+11	1.96E+11	5.93E+10	2.61E+10	8.97E+09
LA ^a	1.27E+11	5.40E+10	2.03E+10	8.41E+09	5.98E+08
WLA ^b	0	0	0	0	0
MOS (10%) ^a	1.49E+10	6.35E+09	2.39E+09	9.89E+08	7.03E+07
AFG (5%) ^a	7.45E+09	3.18E+09	1.19E+09	4.95E+08	3.51E+07

Notes

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

a. The LA, MOS, and AFG are allocated for the Indiana-portion of this TMDL subwatershed downstream of the *Fish Creek at HU outlet (HUC 04100003 04 05) TMDL*.

b. No NPDES permittees are in the TMDL subwatershed downstream of the *Fish Creek at HU outlet (HUC 04100003 04 05) TMDL*.

Table H-6. *E. coli* TMDL for Big Run at Indiana-Ohio state line (HUC 04100003 05 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	3.47E+11	1.36E+11	5.34E+10	2.46E+10	1.78E+10
LA	2.79E+11	1.01E+11	3.10E+10	6.75E+09	9.22E+08
WLA (sum)	1.57E+10	1.47E+10	1.44E+10	1.42E+10	1.42E+10
MOS (10%)	3.47E+10	1.36E+10	5.34E+09	2.46E+09	1.78E+09
AFG (5%)	1.74E+10	6.80E+09	2.67E+09	1.23E+09	8.90E+08
Wasteload allocations					
Butler WWTP (IN0022462) <i>treated effluent</i>	1.42E+10	1.42E+10	1.42E+10	1.42E+10	1.42E+10
Butler WWTP (IN0022462) <i>CSOs</i> ^a	0	0	0	0	0
East Side High School (ING250077) ^b	0	--	--	--	--
<i>Industrial stormwater</i> ^c	1.40E+09	5.07E+08	1.56E+08	3.34E+07	4.63E+06
Irish Acres Dairy, LLC <i>CAFO</i> ^d	0	0	0	0	0

Notes

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

a. The WLAs for Butler WWTP (IN0022462) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP.

b. East Side High School (ING250077; NCCW) is not expected to be a source of *E. coli*.

d. The gross WLA represents the following facilities: DeKalb Molded Plastics Company (INRM01605), International Paper Company (INRM001734), and New Millennium Building Systems, LLC (INRM00985).

d. Irish Acres Dairy, LLC is a CAFO in Indiana; as such, it is prohibited from discharging to surface waterways.

Table H-7. *E. coli* TMDL for Cedar Creek at HU outlet (HUC 04100003 06 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	3.39E+11	1.18E+11	2.97E+10	9.30E+09	3.24E+09
LA	2.87E+11	1.00E+11	2.52E+10	7.90E+09	2.75E+09
WLA (sum)	8.64E+08	3.01E+08	7.56E+07	2.38E+07	8.25E+06
MOS (10%)	3.39E+10	1.18E+10	2.97E+09	9.30E+08	3.24E+08
AFG (5%)	1.69E+10	5.91E+09	1.48E+09	4.66E+08	1.62E+08
Wasteload allocations					
Benchmark Distribution Terminals (ING340037) ^a	2.88E+08	1.00E+08	2.52E+07	7.93E+06	2.75E+06
Industrial stormwater ^b	5.76E+08	2.01E+08	5.04E+07	1.59E+07	5.50E+06
Phillips Farm CAFO ^c	0	0	0	0	0

Notes

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

- a. The Benchmark Distribution Terminals (ING340037) is covered by Indiana’s general NPDES permit for petroleum products terminals and the WLAs in this allocation table were calculated using Indiana’s in-stream, geometric mean *E. coli* water quality standard. The specific WLAs in this allocation table will not be incorporated into the general permit.
- b. The gross WLA represents the following facilities: Nucor Building Systems (INRM00941), OmniSource Corporation (INRM01759), and United Parcel Service Waterloo (INRM00244).
- c. Phillips Farm is a CAFO in Indiana; as such, it is prohibited from discharging to surface waterways.

Table H-8. *E. coli* TMDL for Cedar Creek at HU outlet (HUC 04100003 06 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	6.81E+11	2.37E+11	6.44E+10	2.01E+10	9.15E+09
<i>Cedar Creek at HU outlet (*06 01) TMDL (see Table H-7)</i>	3.39E+11	1.18E+11	2.97E+10	9.30E+09	3.24E+09
LA ^a	2.87E+11	9.92E+10	2.75E+10	7.35E+09	3.25E+09
WLA (sum) ^a	3.78E+09	2.44E+09	1.94E+09	1.80E+09	1.77E+09
MOS (10%) ^a	3.42E+10	1.18E+10	3.47E+09	1.08E+09	5.91E+08
AFG (5%) ^a	1.71E+10	5.92E+09	1.74E+09	5.38E+08	2.96E+08
Wasteload allocations					
Benchmark Distribution Terminals (ING340037)	2.89E+08	9.89E+07	2.78E+07	7.40E+06	3.28E+06
<i>Industrial stormwater</i> ^c	1.74E+09	5.94E+08	1.67E+08	4.44E+07	1.97E+07
Waterloo Public Water Supply (IN0049433) ^d	--	--	--	--	--
Waterloo WWTP (IN0020711)	1.75E+09	1.75E+09	1.75E+09	1.75E+09	1.75E+09

Notes

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

a. The LA, WLA(sum), MOS, and AFG are allocated for the portion of this TMDL subwatershed downstream of the *Cedar Creek at HU outlet (HUC 04100003 06 01)* TMDL.

b. The Benchmark Distribution Terminals (ING340037) is covered by Indiana's general NPDES permit for petroleum products terminals and the WLAs in this allocation table were calculated using Indiana's in-stream, geometric mean *E. coli* water quality standard. The specific WLAs in this allocation table will not be incorporated into the general permit.

c. The gross WLA represents the following facilities: Aggregate Industries Klink Concrete (INRM00184) and IPI Waterloo Recycling Center, LLC (INRM00487).

d. Waterloo Public Water Supply (IN0049433) is not expected to be a source of *E. coli*.

Table H-9. *E. coli* TMDL for Cedar Creek at HU outlet (HUC 04100003 06 04)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1.13E+12	4.28E+11	1.39E+11	5.70E+10	3.78E+10
<i>Cedar Creek at HU outlet (*06 02) TMDL</i> (see Table H-8)	6.81E+11	2.37E+11	6.44E+10	2.01E+10	9.15E+09
LA ^a	3.21E+11	1.25E+11	3.72E+10	8.59E+09	2.24E+09
WLA (sum) ^a	6.13E+10	3.72E+10	2.64E+10	2.28E+10	2.21E+10
MOS (10%) ^a	4.50E+10	1.91E+10	7.47E+09	3.70E+09	2.87E+09
AFG (5%) ^a	2.25E+10	9.56E+09	3.74E+09	1.85E+09	1.43E+09
Wasteload allocations					
Auburn (INR040119) <i>MS4</i>	3.81E+10	1.49E+10	4.41E+09	1.02E+09	2.77E+08
Auburn Gear (IN0000566)	4.73E+08	4.73E+08	4.73E+08	4.73E+08	4.73E+08
Auburn Gear (IN0000566) <i>NCCW</i> ^b	0	--	--	--	--
Auburn Gear (IN0000566) <i>stormwater</i>	7.22E+08	2.82E+08	8.35E+07	1.93E+07	5.26E+06
Auburn WWTP (IN0020672) <i>treated effluent</i>	2.13E+10	2.13E+10	2.13E+10	2.13E+10	2.13E+10
Auburn WWTP (IN0020672, outfalls 002, 007, and 009) <i>CSOs</i> ^c	0	0	0	0	0
<i>Industrial stormwater</i> ^d	3.61E+08	1.41E+08	4.18E+07	9.64E+06	2.63E+06
Rieke Packaging Systems (IN0000868) <i>NCCW</i> ^b	0	--	--	--	--
Rieke Packaging Systems (IN0000868) <i>stormwater</i>	3.61E+08	1.41E+08	4.18E+07	9.64E+06	2.63E+06

Notes

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

a. The LA, WLA(sum), MOS, and AFG are allocated for the portion of this TMDL subwatershed downstream of the *Cedar Creek at HU outlet (HUC 04100003 06 02)* TMDL.

b. Auburn Gear (IN0000566; NCCW) and Rieke Packaging Systems (IN0000868; NCCW) are not expected to be a source of *E. coli*.

c. The WLAs for Auburn WWTP (IN0020672) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP.

d. The gross WLA represents the following facilities: Auburn Gear Inc. (INRM01782), Cooper Standard Automotive (INRM01167), FXI Incorporated (INRM01118), and OmniSource Corporation Auburn (INRM00784).

Table H-10. *E. coli* TMDL for Peckhart Ditch at confluence with John Diehl Ditch (HUC 04100003 07 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	2.11E+11	7.61E+10	2.07E+10	6.62E+09	1.60E+09
LA	1.77E+11	6.36E+10	1.73E+10	5.54E+09	1.34E+09
WLA (sum)	2.86E+09	1.03E+09	2.82E+08	8.98E+07	2.18E+07
MOS (10%)	2.11E+10	7.61E+09	2.07E+09	6.62E+08	1.60E+08
AFG (5%)	1.05E+10	3.81E+09	1.04E+09	3.31E+08	8.00E+07
Wasteload allocations					
Auburn (INR040119) <i>MS4</i>	5.30E+08	1.92E+08	5.22E+07	1.67E+07	4.03E+06
Contech U.S. LLC (IN0046043) <i>NCCW</i> ^a	--	--	--	--	--
Contech U.S. LLC (IN0046043) <i>stormwater</i>	1.79E+08	6.47E+07	1.76E+07	5.63E+06	1.36E+06
Haynes Dairy Farm CFO	0	0	0	0	0
<i>Industrial stormwater</i> ^b	1.61E+09	5.82E+08	1.59E+08	5.06E+07	1.23E+07
Metal Technologies (IN0061263) <i>NCCW</i> ^a	--	--	--	--	--
Metal Technologies (IN0061263) <i>stormwater</i>	5.37E+08	1.94E+08	5.29E+07	1.69E+07	4.09E+06
Sunrise Heifer Farms, LLC <i>CAFO</i> ^c	0	0	0	0	0
Tower Automotive USA II (IN0046761) ^a	--	--	--	--	--

Notes

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

a. Contech U.S. LLC (IN0046043; NCCW), Metal Technologies (IN0061263), and Tower Automotive USA II (IN0046761; NCCW) are not expected to be a source of *E. coli*.

b. The gross WLA represents the following facilities: Ball Brass and Aluminum Foundry Inc. (INRM01370) and Metal X Auburn (INRM01768).

c. Sunrise Heifer Farms, LLC is a CAFO in Indiana; as such, it is prohibited from discharging to surface waterways.

Table H-11. *E. coli* TMDL for Black Creek at HU outlet (HUC 04100003 07 04)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	3.06E+11	1.07E+11	3.08E+10	1.14E+10	2.84E+09
LA	2.60E+11	9.06E+10	2.59E+10	9.46E+09	2.18E+09
WLA (sum)	2.37E+08	2.37E+08	2.37E+08	2.37E+08	2.37E+08
MOS (10%)	3.06E+10	1.07E+10	3.08E+09	1.14E+09	2.84E+08
AFG (5%)	1.53E+10	5.34E+09	1.54E+09	5.70E+08	1.42E+08
Wasteload allocations					
LaOtto Regional Sewer District (IN0058611)	2.37E+08	2.37E+08	2.37E+08	2.37E+08	2.37E+08

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

Table H-12. *E. coli* TMDL for Little Cedar Creek at HU outlet (HUC 04100003 07 05)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	9.02E+11	3.19E+11	8.95E+10	3.47E+10	1.32E+10
<i>Black Creek at HU outlet (*07 04) TMDL (see Table H-11)</i>	3.06E+11	1.07E+11	3.08E+10	1.14E+10	2.84E+09
LA ^a	5.02E+11	1.76E+11	4.67E+10	1.67E+10	5.79E+09
WLA (sum) ^a	5.04E+09	3.74E+09	3.22E+09	3.10E+09	3.05E+09
MOS (10%) ^a	5.95E+10	2.12E+10	5.87E+09	2.33E+09	1.04E+09
AFG (5%) ^a	2.98E+10	1.06E+10	2.94E+09	1.17E+09	5.20E+08
Wasteload allocations					
Allen County & others (INR040131) <i>MS4</i>	1.00E+09	3.54E+08	9.36E+07	3.35E+07	1.16E+07
Avila Water Department (IN0052035) ^b	--	--	--	--	--
Avila WWTP (IN0020664)	2.84E+09	2.84E+09	2.84E+09	2.84E+09	2.84E+09
Indian Springs Recreation Campground (IN0032107)	1.89E+08	1.89E+08	1.89E+08	1.89E+08	1.89E+08
<i>Industrial stormwater</i> ^c	1.01E+09	3.55E+08	9.38E+07	3.36E+07	1.16E+07

Notes

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

a. The LA, WLA(sum), MOS, and AFG are allocated for the portion of this TMDL subwatershed downstream of the *Black Creek at HU outlet (HUC 04100003 07 04)* TMDL.

b. The Avila Water Department (IN0052035) is not expected to be a source of *E. coli*.

c. The gross WLA represents the following facilities: Electric Motors & Specialties Incorporated (INRM00918), Kautex Incorporated (INRM01494), and Victor Reinz Valve Seals, LLC (INRM01208).

Table H-13. *E. coli* TMDL for Willow Creek at HU outlet (HUC 04100003 07 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	4.10E+11	1.42E+11	4.10E+10	1.28E+10	3.49E+09
LA	3.15E+11	1.09E+11	3.15E+10	9.82E+09	2.68E+09
WLA (sum)	3.31E+10	1.14E+10	3.31E+09	1.03E+09	2.82E+08
MOS (10%)	4.10E+10	1.42E+10	4.10E+09	1.28E+09	3.49E+08
AFG (5%)	2.05E+10	7.09E+09	2.05E+09	6.38E+08	1.74E+08
Wasteload allocations					
Allen County & others (INR040131) <i>MS4</i>	3.31E+10	1.14E+10	3.31E+09	1.03E+09	2.82E+08

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

Table H-14. *E. coli* TMDL for Cedar Creek at HU outlet (HUC 04100003 07 07)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	3.34E+12	1.24E+12	3.86E+11	1.48E+11	8.02E+10
<i>Cedar Creek at HU outlet (*06 04) TMDL (see Table H-9)</i>	1.13E+12	4.28E+11	1.39E+11	5.70E+10	3.78E+10
<i>Peckhart Ditch at confluence with John Diehl Ditch (*07 02) TMDL (see Table H-10)</i>	2.11E+11	7.61E+10	2.07E+10	6.62E+09	1.60E+09
<i>Little Cedar Creek at HU outlet (*07 05) TMDL (see Table H-12)</i>	9.02E+11	3.19E+11	8.95E+10	3.47E+10	1.32E+10
<i>Willow Creek at HU outlet (*07 06) TMDL (see Table H-13)</i>	4.10E+11	1.42E+11	4.10E+10	1.28E+10	3.49E+09
LA ^a	5.54E+11	2.18E+11	7.27E+10	2.46E+10	1.40E+10
WLA (sum) ^a	3.25E+10	1.62E+10	9.24E+09	6.97E+09	6.47E+09
MOS (10%) ^a	6.90E+10	2.75E+10	9.53E+09	3.72E+09	2.41E+09
AFG (5%) ^a	3.45E+10	1.38E+10	4.76E+09	1.86E+09	1.20E+09
Wasteload allocations					
Allen County & others (INR040131) MS4	1.27E+10	4.99E+09	1.64E+09	5.64E+08	3.21E+08
Auburn (INR040119) MS4	1.04E+10	4.09E+09	1.35E+09	4.61E+08	2.62E+08
Auburn WWTP (IN0020672; outfall 010) CSO ^b	0	0	0	0	0
Corunna WWTP (IN0047473)	1.14E+08	1.14E+08	1.14E+08	1.14E+08	1.14E+08
Garrett Municipal WWTP (IN0022969)	5.68E+09	5.68E+09	5.68E+09	5.68E+09	5.68E+09
Industrial stormwater ^c	3.48E+09	1.37E+09	4.51E+08	1.55E+08	8.80E+07

Notes

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

a. The LA, WLA(sum), MOS, and AFG are allocated for the portion of this TMDL subwatershed downstream of the nested TMDLs.

b. The WLAs for Auburn WWTP (IN0020672) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP.

c. The gross WLA represents the following facilities: DeKalb County Airport (INRM00501), Griffith Rubber Mills- Taylor Road (INRM00652), Harsco Industrial IKG (INRM01740), and Momen Performance Materials (INRM00519).

Table H-15. *E. coli* TMDL for St. Joseph River just upstream of confluence of Bear Creek (HUC 04100003 08 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	8.32E+12	2.99E+12	1.06E+12	4.00E+11	1.99E+11
Ohio's SJR at Ohio-Indiana state line (*05 05) TMDL ^a	7.71E+12	2.73E+12	9.77E+11	3.76E+11	1.89E+11
LA ^b	5.09E+11	2.10E+11	6.23E+10	1.45E+10	3.07E+09
WLA (sum) ^b	9.78E+09	7.45E+09	6.18E+09	5.80E+09	5.70E+09
MOS (10%) ^b	6.10E+10	2.67E+10	8.06E+09	2.39E+09	1.03E+09
AFG (5%) ^b	3.05E+10	1.34E+10	4.03E+09	1.20E+09	5.16E+08
Wasteload allocations					
<i>Industrial stormwater</i> ^c	3.59E+09	1.55E+09	4.40E+08	1.03E+08	2.17E+07
Laub Farm LLC CAFO ^d	0	0	0	0	0
Mark S. Rekewege CAFO ^d	0	0	0	0	0
Stafford Gravel Inc. (ING490043) ^e	--	--	--	--	--
Steel Dynamics Inc. (IN0059201)	5.68E+09	5.68E+09	5.68E+09	5.68E+09	5.68E+09
Steel Dynamics Inc. (IN0059201) <i>stormwater</i>	5.13E+08	2.22E+08	6.28E+07	1.46E+07	3.09E+06

Notes

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

a. Small portions Indiana in the SJRW drain to Ohio and their loads are included in Ohio's SJR at Ohio-Indiana state line (HUC *05 05) TMDL.

b. The LA, WLA(sum), MOS, and AFG are allocated for the portion of this TMDL subwatershed downstream of Ohio's SJR at Ohio-Indiana state line (HUC *05 05) TMDL.

c. The gross WLA represents the following facilities: Auburn Transfer Station (INRM01233), Nucor Fastener (INRM00939), Nucor Vulcraft – St. Joe Division (INRM00978), and Therma Tru Corporation (INRM00973).

d. Laub Farm LLC and Mark S. Rekewege are CAFOs in Indiana; as such, they are prohibited from discharging to surface waterways.

e. Stafford Gravel Inc. (ING490043; dimeson stone and crushed stone operations) is not expected to be a source of *E. coli*.

Table H-16. *E. coli* TMDL for St. Joseph River at HU outlet (HUC 04100003 08 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	9.10E+12	3.35E+12	1.15E+12	4.29E+11	2.01E+11
<i>SJR just upstream of the confluence of Bear Creek (*08 02) TMDL</i> (see Table H-15)	8.32E+12	2.99E+12	1.06E+12	4.00E+11	1.99E+11
LA ^a	6.42E+11	3.03E+11	6.81E+10	2.30E+10	1.39E+09
WLA (sum) ^a	1.68E+10	7.98E+09	2.71E+09	1.37E+09	8.14E+08
MOS (10%) ^a	7.86E+10	3.54E+10	9.51E+09	2.87E+09	1.42E+08
AFG (5%) ^a	3.93E+10	1.77E+10	4.76E+09	1.43E+09	7.08E+07
Wasteload allocations					
Allen County & others (INR040131) <i>MS4</i>	1.20E+10	5.38E+09	1.43E+09	4.22E+08	7.16E+06
Deer Track Estates WWTP (IN0059749)	6.64E+08	2.99E+08	7.97E+07	2.35E+07	3.98E+05
Fort Wayne Utilities - Honeysuckle Site (IN0063061) ^b	--	--	--	--	--
<i>Industrial stormwater</i> ^c	3.34E+09	1.50E+09	4.00E+08	1.18E+08	2.00E+06
Pickle Properties (IN0032981) ^b	--	--	--	--	--
St. Joe - Spencerville RSD (IN0058441)	8.04E+08	8.04E+08	8.04E+08	8.04E+08	8.04E+08

Notes

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

- a. The LA, WLA(sum), MOS, and AFG are allocated for the portion of this TMDL subwatershed downstream of *SJR just upstream of the confluence with Bear Creek (HUC *08 02)* TMDL.
- b. Fort Wayne Utilities - Honeysuckle Site (IN0063061; WTP) and Pickle Properties (IN0032981) are not expected to be a source of *E. coli*.
- c. The gross WLA represents the following facilities: Rhinehart Finishing LLC (INRM00263) and Sechlars Pickles Incorporated (INRM00421).

H-2 Total Phosphorus TMDLs to Address Aquatic Life Use Impairments

Table H-17. TP TMDL for Fish Creek at HU outlet (HUC 04100003 04 05)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	297	103.9	31.4	13.8	4.74
Ohio upstream contribution ^a	18	5.9	2.0	0.3	0.13
LA ^b	251	88.2	26.4	12.1	4.15
WLA ^c	0	0	0	0	0
MOS (5%) ^b	14	4.9	1.5	0.7	0.23
AFG (5%) ^b	14	4.9	1.5	0.7	0.23

Notes

- The allocation table components and structure are explained on page H-5, acronyms are defined on page H-4, and the loads are in pounds of TP per day.
- a. A small portion of the HUC12 in Indiana drains to Ohio. The Ohio portion of this TMDL subwatershed is not impaired for its aquatic life use.
- b. The LA, MOS, and AFG are allocated for the portion of this TMDL subwatershed downstream of the *Ohio upstream contribution*.
- c. No NPDES permittees are in the TMDL subwatershed.

Table H-18. TP TMDL for Fish Creek at Indiana-Ohio state line (HUC 04100003 04 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	646	229	73.1	28.5	9.89
<i>Fish Creek at HU outlet (*04 05) TMDL (see Table H-17)</i>	297	104	31.4	13.8	4.74
LA ^a	309	107	33.5	9.3	0.85
WLA (sum) ^a	6	6	4.0	4.0	3.78
MOS (5%) ^a	17	6	2.1	0.7	0.26
AFG (5%) ^a	17	6	2.1	0.7	0.26
Wasteload allocations					
<i>Construction stormwater</i>	1	1	0.1	0.1	0.01
Hamilton Lake Conservancy District (IN0050322)	4	4	3.8	3.8	3.76
Hamilton Lake Water Works (IN0060216) ^b	--	--	--	--	--
<i>Industrial stormwater</i> ^c	1	1	0.1	0.1	0.01

Notes

- The allocation table components and structure are explained on page H-5, acronyms are defined on page H-4, and the loads are in pounds of TP per day.
- a. The LA, WLA(sum), MOS, and AFG are allocated for the portion of this TMDL subwatershed downstream of the *Fish Creek at HU outlet (HUC *04 05) TMDL*.
- b. Hamilton Lake Water Works (IN0060216) is not expected to be a source of TP.
- c. The gross WLA represents the following facilities: AZZ Galvanizing (INRM01504) and Rieke Packaging System (INRM01907).

Table H-19. TP TMDL for Cedar Creek at HU outlet (HUC 04100003 06 01)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	179.2	62.6	15.7	4.94	1.71
LA	160.5	56.0	13.8	4.41	1.50
WLA (sum)	0.7	0.4	0.3	0.03	0.03
MOS (5%)	9.0	3.1	0.8	0.25	0.09
AFG (5%)	9.0	3.1	0.8	0.25	0.09
Wasteload allocations					
Benchmark Distribution Terminals (ING340037) ^a	0.2	0.1	0.1	0.01	0.01
Construction stormwater	0.3	0.1	0.1	0.01	0.01
Industrial stormwater ^b	0.2	0.2	0.1	0.01	0.01
Phillips Farm CAFO ^c	0	0	0	0	0

Notes

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

- a. The Benchmark Distribution Terminals (ING340037) is covered by Indiana’s general NPDES permit for petroleum products terminals and the WLAs in this allocation table were calculated using Indiana’s in-stream 0.30 milligram per liter target. The specific WLAs in this allocation table will not be incorporated into the general permit.
- b. The gross WLA represents the following facilities: Nucor Building Systems (INRM00941), OmniSource Corporation (INRM01759), and United Parcel Service Waterloo (INRM00244).
- c. Phillips Farm is a CAFO in Indiana; as such, it is prohibited from discharging to surface waterways.

Table H-20. TP TMDL for Cedar Creek at HU outlet (HUC 04100003 06 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	360.3	125.2	34.1	10.63	4.842
<i>Cedar Creek at HU outlet (*06 01) TMDL (see Table H-19)</i>	179.2	62.6	15.7	4.94	1.713
LA	158.2	52.7	13.2	2.02	1.242
WLA (sum)	4.7	3.7	3.4	3.11	1.575
MOS (5%)	9.1	3.1	0.9	0.28	0.156
AFG (5%)	9.1	3.1	0.9	0.28	0.156
Wasteload allocations					
Benchmark Distribution Terminals (ING340037) ^a	0.2	0.1	0.1	0.01	0.001
<i>Construction stormwater</i>	1.1	0.4	0.1	0.01	0.009
<i>Industrial stormwater</i> ^b	0.3	0.1	0.1	0.01	0.003
Waterloo WWTP (IN0020711)	3.1	3.1	3.1	3.08	1.562

Notes

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

a. The Benchmark Distribution Terminals (ING340037) is covered by Indiana’s general NPDES permit for petroleum products terminals and the WLAs in this allocation table were calculated using Indiana’s in-stream 0.30 milligram per liter target. The specific WLAs in this allocation table will not be incorporated into the general permit.

b. The gross WLA represents the following facilities: Aggregate Industries Klink Concrete (INRM00184) and IPI Waterloo Recycling Center, LLC (INRM00487).

Table H-21. TP TMDL for Unnamed tributary to Mason Ditch at the confluence with Mason Ditch (HUC 04100003 06 03)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	9.8	3.56	0.99	0.24	0.049
LA	8.8	3.20	0.89	0.22	0.045
WLA ^a	0	0	0	0	0
MOS (5%)	0.5	0.18	0.05	0.01	0.002
AFG (5%)	0.5	0.18	0.05	0.01	0.002

Notes

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

a. No NPDES permittees are in the TMDL subwatershed.

Table H-22. TP TMDL for Peckhart Ditch at confluence with John Diehl Ditch (HUC 04100003 07 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	111.5	40.3	11.0	3.50	0.85
LA	99.0	35.8	9.7	3.09	0.73
WLA (sum)	1.3	0.5	0.3	0.05	0.04
MOS (5%)	5.6	2.0	0.5	0.18	0.04
AFG (5%)	5.6	2.0	0.5	0.18	0.04
Wasteload allocations					
Auburn (INR040119) <i>MS4</i>	0.3	0.1	0.1	0.01	0.01
<i>Construction stormwater</i>	0.5	0.2	0.0	0.02	0.01
Contech U.S. LLC (IN0046043) <i>NCCW</i> ^a	--	--	--	--	--
Contech U.S. LLC (IN0046043) <i>storm water</i>	0.1	0.1	0.1	0.01	0.01
Haynes Dairy Farm <i>CFO</i>	0	0	0	0	0
<i>Industrial stormwater</i> ^b	0.4	0.1	0.1	0.01	0.01
Sunrise Heifer Farms, LLC <i>CAFO</i> ^c	0	0	0	0	0
Tower Automotive USA II (IN0046761) ^a	--	--	--	--	--

Notes

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

a. Contech U.S. LLC (IN0046043; NCCW) and Tower Automotive USA II (IN0046761; NCCW) are not expected to be a source of TP.

b. The gross WLA represents the following facilities: Ball Brass and Aluminum Foundry Inc. (INRM01370) and Metal X Auburn (INRM01768).

c. Sunrise Heifer Farms, LLC is a CAFO in Indiana; as such, it is prohibited from discharging to surface waterways.

Table H-23. TP TMDL for Cedar Creek at HU outlet (HUC 0410003 07 07)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	1,769	656.1	203.8	78.2	42.33
<i>Cedar Creek at HU outlet (*06 02) TMDL (see Table H-20)</i>	360	125.2	34.1	10.6	4.84
<i>Unnamed tributary to Matson Ditch at confluence with Matson Ditch (*06 03) TMDL (see Table H-21)</i>	10	3.6	1.0	0.2	0.05
<i>Peckhart Ditch at confluence with John Diehl Ditch (*07 02) TMDL (see Table H-22)</i>	111	40.3	11.0	3.5	0.85
LA	1,033	359.2	81.9	2.5	14.43
WLA (sum)	127	79.0	60.0	55.0	18.50
MOS (5%)	64	24.4	7.9	3.2	1.83
AFG (5%)	64	24.4	7.9	3.2	1.83
Wasteload allocations					
Allen County & others (INR040131) <i>MS4</i>	27	9.5	2.2	0.1	0.08
Auburn (INR040119) <i>MS4</i>	29	10.2	2.3	0.1	0.08
Auburn Gear (IN0000566)	1	0.8	0.8	0.8	0.83
Auburn Gear (IN0000566) <i>NCCW</i> ^a	0	--	--	--	--
Auburn Gear (IN0000566) <i>stormwater</i>	1	0.4	0.1	0.1	0.01
Auburn WWTP (IN0020672) <i>treated effluent</i>	38	37.6	37.6	37.6	16.56 ^b
Auburn CSS (IN0020672) <i>CSOs</i> ^c	0	0	0	0	0
Avila Water Department (IN0052035) ^a	--	--	--	--	--
Avila WWTP (IN0020664)	5	5.0	5.0	5.0	0.29 ^b
<i>Construction stormwater</i>	7	2.3	0.5	0.1	0.02
Corunna WWTP (IN0047473)	1	0.2	0.2	0.2	0.01 ^b
Garrett Municipal WWTP (IN0022969)	10	10.0	10.0	10.0	0.56 ^b
Indian Springs Recreation Campground (IN0032107)	1	0.3	0.3	0.3	0.01 ^b
LaOtto Regional Sewer District (IN0058611)	4	1.5	0.4	0.1	0.01
<i>Industrial stormwater</i> ^d	1	0.4	0.4	0.4	0.02 ^b
Metal Technologies (IN0061263) <i>NCCW</i> ^a	--	--	--	--	--
Metal Technologies (IN0061263) <i>stormwater</i>	1	0.4	0.1	0.1	0.01
Rieke Packaging Systems (IN0000868) <i>NCCW</i> ^a	--	--	--	--	--
Rieke Packaging Systems (IN0000868) <i>stormwater</i>	1	0.4	0.1	0.1	0.01

Notes

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

a. Auburn Gear (IN0000556; NCCW), Avila Water Department (IN0052035; WTP), Metal Technologies (IN0061263; NCCW), and Rieke Packaging Systems (IN0000868; NCCW) are not expected to be a source of TP..

-
- b. The WLAs for these sanitary wastewater treatment facilities were calculated using the average flow reported in discharge monitoring reports from July through September in lieu of using the average design flow. If the average design flows would be used, then during the low flow duration interval, the summation of these WLAs would exceed the TMDL. IDEM decided that use of the average of July through September effluent flows was appropriate for the low flow duration interval because these sanitary wastewater treatment facilities discharge at a small fraction of their average design flows during summer low-flow periods (i.e., July through September).
 - c. The WLAs for Auburn WWTP (IN0020672) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP.
 - d. The gross WLA represents the following facilities: Auburn Gear Inc. (INRM01782), Cooper Standard Automotive (INRM01167), DeKalb County Airport (INRM00501), Electric Motors & Specialties Incorporated (INRM00918), FXI Incorporated (INRM01118), Griffith Rubber Mills- Taylor Road (INRM00652), Harsco Industrial IKG (INRM01740), Kautex Incorporated (INRM01494), Momentive Performance Materials (INRM00519), OmniSource Corporation Auburn (INRM00784), and Victor Reinz Valve Seals, LLC (INRM01208).

Table H-24. TP TMDL for St. Joseph River at HU outlet (HUC 04100003 08 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
TMDL at the mouth of the St. Joseph River (pounds per day)					
TMDL at mouth of St. Joseph River	6,779	2,513	802.1	247.3	74.25
TMDL at the Fort Wayne PWS intake	6,882	2,600	881.6	322.7	144.58
Withdrawal at the Fort Wayne PWS intake	-103	-87	-79.5	-75.3	-70.33
TMDL at the Fort Wayne PWS intake on the St. Joseph River (pounds per day)					
TMDL	6,882	2,600	881.6	322.7	144.58
Indiana upstream allocation	69	26	8.5	2.0	0.71
Michigan upstream allocation ^a	981	365	111.9	40.6	14.24
Ohio upstream allocation ^a	2,120	786	285.8	106.8	58.51
Cedar Creek at HU outlet (*07 07) TMDL (see Table H-23)	1,769	656	203.8	78.2	42.33
LA	1,394	531	168.5	39.3	6.35
WLA (sum)	356	160	75.9	46.2	19.56
MOS (5%)	97	38	13.6	4.8	1.44
AFG (5%)	97	38	13.6	4.8	1.44
Wasteload allocations at the Fort Wayne PWS intake on the St. Joseph River (pounds per day)					
Allen County & others (INR040131) MS4	104	40	12.7	3.0	0.47
Butler WWTP (IN0022462) treated effluent	25	25	25.0	25.0	7.57 ^b
Butler WWTP (IN0022462) CSOs ^c	0	0	0	0	0
Construction stormwater	21	8	2.5	0.6	0.09
East Side High School (ING250077) ^d	0	--	--	--	--
Fort Wayne & others (INR040029) MS4	185	71	22.5	5.3	0.84
Fort Wayne Municipal WWTP (IN0032191) CSOs ^e	0	0	0	0	0
Fort Wayne Municipal WWTP (IN0032191) SSOs ^f	0	0	0	0	0
Fort Wayne Utilities - Honeysuckle Site (IN0063061) ^d	--	--	--	--	--
Grabill Water Works (IN0044369) ^d	--	--	--	--	--
Industrial stormwater ^g	9	3	1.0	0.2	0.04
Irish Acres Dairy, LLC CAFO ^h	0	0	0	0	0
Laub Farm LLC CAFO ^h	0	0	0	0	0
Mark S. Rekewege CAFO ^h	0	0	0	0	0
Northcrest Shopping Center (ING080271) ^d	--	--	--	--	--
Pickle Properties (IN0032981) ^d	--	--	--	--	--
Stafford Gravel Inc. (ING490043) ^d	--	--	--	--	--
Steel Dynamics Inc. (IN0059201)	10	10	10.0	10.0	10.00
Steel Dynamics Inc. (IN0059201) stormwater	2	1	0.2	0.1	0.01
St Joe – Spencerville RSD (IN0058441)	2	2	2	2	0.54 ^b

Notes

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

The TMDL at the mouth of the St. Joseph River is equivalent to the TMDL at the Fort Wayne PWS intake less the load withdrawn at the PWS intake.

- a. Michigan waters in the SJRW are not impaired for their aquatic life use. Two watershed assessment units in Ohio are impaired for their aquatic life use due to nutrients. Ohio EPA will develop TMDLs for these two watershed assessment units.
- b. The WLAs for these sanitary wastewater treatment facilities were calculated using the average flow reported in discharge monitoring reports from July through September in lieu of using the average design flow. If the average design flows would be used, then during the low flow duration interval, the summation of these WLAs would exceed the TMDL. IDEM decided that use of the average of July through September effluent flows was appropriate for the low flow duration interval because these sanitary wastewater treatment facilities discharge at a small fraction of their average design flows during summer low-flow periods (i.e., July through September).
- c. The WLAs for Butler WWTP (IN0022462) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP.
- d. Eagle-Picher Plastic Division (IN0000574; NCCW), East Side High School (ING250077; NCCW), Fort Wayne Utilities - Honeysuckle Site (IN0063061; WTP), Grabill Water Works (IN0044369), Northcrest Shopping Center (ING080271; groundwater petroleum remediation system), Pickle Properties (IN0032981), and Stafford Gravel, Inc. (ING490043; dimension stone and crushed stone operations) are not expected to be a source of TP..
- e. The WLAs for Fort Wayne WWTP (IN032191) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP and Consent Decree.
- f. This Fort Wayne Municipal WWTP (IN032191) WLA is for SSOs, which are prohibited discharges. The Fort Wayne CSS must comply with its LTCP and the Consent Decree.
- g. The gross WLA represents the following facilities: Auburn Transfer Station (INRM01233), DeKalb Molded Plastics Company (INRM01605), Guardian Automotive Products Incorporated (INRM01012), International Paper Company (INRM001734), Irving Ready Mix Inc. (INR210049), M & W Countertops Inc. (INRM01108), Magna Exteriors & Interiors (INRM1781), New Millennium Building Systems, LLC (INRM00985), Nucor Fastener (INRM00939), Nucor Vulcraft – St. Joe Division (INRM00978), Rhinehart Finishing LLC (INRM00263), R3 Composites Corporation (INRM00406), Sauder Manufacturing Company (INRM00121 and INRM00144), Sechl's Pickles Incorporated (INRM00421), Smith Field Airport (INRM01228), Speedway Transit Mix and Concrete Plant Management (INRM01671), and Therma Tru Corporation (INRM00973).
- h. Irish Acres Dairy, LLC, Laub Farm LLC and Mark S. Rekewege are CAFOs in Indiana; as such, they are prohibited from discharging to surface waterways.

H-3 Total Suspended Solids TMDLs to Address Aquatic Life Use Impairments

Table H-25. TSS TMDL for Fish Creek at HU outlet (HUC 04100003 04 05)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	29,715	10,393	3,136	1,380	474
Ohio allocation ^a	1,767	594	197	34	13
LA	25,154	8,819	2,645	1,212	415
WLA ^b	0	0	0	0	0
MOS (5%)	1,397	490	147	67	23
AFG (5%)	1,397	490	147	67	23

Notes

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

a. Small portions of *Headwaters Fish Creek* (*04 02) and this HUC12 in Indiana drain to Ohio. The Ohio portions of this TMDL subwatershed are not impaired for their aquatic life use.

b. No NPDES permittees are in the TMDL subwatershed.

Table H-26. TSS TMDL for Fish Creek at Indiana-Ohio state line (HUC 04100003 04 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations ^a					
TMDL	64,648	22,868	7,305	2,848	989
<i>Fish Creek at HU outlet (*04 05) TMDL (see Table H-17)</i>	29,715	10,393	3,136	1,380	474
LA	31,185	11,055	3,611	1,190	333
WLA	254	172	142	132	130
MOS (5%)	1,747	624	208	73	26
AFG (5%)	1,747	624	208	73	26
Wasteload allocations					
<i>Construction stormwater</i>	63	22	7	2	1
Hamilton Lake Conservancy District (IN0050322)	113	113	113	113	113
Hamilton Lake Water Works (IN0060216)	15	15	15	15	15
<i>Industrial stormwater ^a</i>	63	22	7	2	1

Notes

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

a. The gross WLA represents the following facilities: AZZ Galvanizing (INRM01504) and Rieke Packaging System (INRM01907).

Table H-27. TSS TMDL for Peckhart Ditch at confluence with John Diehl Ditch (HUC 04100003 07 02)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	11,149	4,027	1,098	350	85
LA	9,945	3,592	979	310	74
WLA (sum)	90	33	9	4	3
MOS (5%)	557	201	55	18	4
AFG (5%)	557	201	55	18	4
Wasteload allocations					
Auburn (INR040119) MS4	30	11	3	1	1
Construction stormwater	50	18	5	2	1
Contech U.S. LLC (IN0046043) NCCW ^a	--	--	--	--	--
Contech U.S. LLC (IN0046043) storm water	10	4	1	1	1
Haynes Dairy Farm CFO	0	0	0	0	0
Industrial stormwater					
Sunrise Heifer Farms, LLC CAFO ^b	0	0	0	0	0
Tower Automotive USA II (IN0046761) ^a	--	--	--	--	--

Notes

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

a. Contech U.S. LLC (IN0046043; NCCW) and Tower Automotive USA II (IN0046741) are not expected to be a source of TSS.

b. Sunrise Heifer Farms, LLC is a CAFO in Indiana; as such, it is prohibited from discharging to surface waterways.

Table H-28. TSS TMDL for Black Creek at HU outlet (HUC 04100003 07 04)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	16,198	5,653	1,628	604	150
LA	14,520	5,048	1,434	514	104
WLA (sum)	58	39	32	30	30
MOS (5%)	810	283	81	30	8
AFG (5%)	810	283	81	30	8
Wasteload allocations					
<i>Construction stormwater</i>	29	10	3	1	1
LaOtto Regional Sewer District (IN0058611)	29	29	29	29	29

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

Table H-29. TSS TMDL for Little Cedar Creek at HU outlet (HUC 04100003 07 05)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	47,703	16,893	4,735	1,837	701
Black Creek at HU outlet (*07 04) TMDL (see Table H-28)	16,198	5,653	1,628	604	150
LA	27,707	9,778	2,583	924	320
WLA (sum)	648	338	214	185	175
MOS (5%)	1,575	562	155	62	28
AFG (5%)	1,575	562	155	62	28
Wasteload allocations					
Allen County & others (INR040131) <i>MS4</i>	56	20	5	2	1
Avila Water Department (IN0052035)	9	9	9	9	9
Avila WWTP (IN0020664)	150	150	150	150	150
<i>Construction stormwater</i>	338	119	32	11	4
Indian Springs Recreation Campground (IN0032107)	10	10	10	10	10
<i>Industrial stormwater</i> ^b	85	30	8	3	1

Notes

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

a. The gross WLA represents the following facilities: Electric Motors & Specialties Incorporated (INRM00918), Kautex Incorporated (INRM01494), and Victor Reinz Valve Seals, LLC (INRM01208).

Table H-30. TSS TMDL for Cedar Creek at HU outlet (HUC 04100003 07 07)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
Allocations					
TMDL	176,886	65,608	20,351	7,776	4,162
<i>Peckhart Ditch at confluence with John Diehl Ditch (*07 02) TMDL (see Table H-27)</i>	11,149	4,027	1,098	350	85
<i>Little Cedar Creek at HU outlet (*07 05) TMDL (see Table H-29)</i>	47,703	16,893	4,735	1,837	701
LA	98,031	36,132	10,674	3,141	1,272
WLA (sum)	8,199	4,088	2,392	1,890	1,766
MOS (5%)	5,902	2,234	726	279	169
AFG (5%)	5,902	2,234	726	279	169
Wasteload allocations					
Allen County & others (INR040131) <i>MS4</i>	2,477	913	270	79	32
Auburn (INR040119) <i>MS4</i>	2,683	989	292	86	35
Auburn Gear (IN0000566)	150	150	150	150	150
Auburn Gear (IN0000566) <i>NCCW</i> ^a	0	0	0	0	0
Auburn Gear (IN0000566) <i>stormwater</i>	105	39	11	3	1
Auburn WWTP (IN0020672) <i>treated effluent</i>	1,127	1,127	1,127	1,127	1,127
Auburn WWTP (IN0020672, outfalls 002, 007, and 009) <i>CSOs</i> ^b	0	0	0	0	0
Benchmark Distribution Terminals (ING340037) ^c	105	39	11	3	1
<i>Construction stormwater</i>	523	193	57	17	7
Corunna WWTP (IN0047473)	14	14	14	14	14
Garrett Municipal WWTP (IN0022969)	300	300	300	300	300
<i>Industrial stormwater</i> ^d	418	154	46	13	5
Metal Technologies (IN0061263) <i>NCCW</i> ^a	0	0	0	0	0
Metal Technologies (IN0061263) <i>stormwater</i>	105	39	11	3	1
Phillips Farm ^e	0	0	0	0	0
Rieke Packaging Systems (IN0000868) <i>NCCW</i> ^a	0	0	0	0	0
Rieke Packaging Systems (IN0000868) <i>stormwater</i>	105	39	11	3	1
Waterloo WWTP (IN0020711)	92	92	92	92	92

Notes

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

a. Auburn Gear (IN0000566; NCCW), Metal Technologies (IN0061263; NCCW), Rieke Packaging Systems (IN0000868; NCCW), and Waterloo Public Water Supply (IN0049433; WTP) are not expected to be a source of TSS.

b. The WLAs for Auburn WWTP (IN0020672) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP.

c. The Benchmark Distribution Terminals (ING340037) is covered by Indiana's general NPDES permit for petroleum products terminals and the WLAs in this allocation table were calculated using Indiana's in-stream 30 milligram per liter target. The specific WLAs in this allocation table will not be incorporated into the general permit.

- d. The gross WLA represents the following facilities: Aggregate Industries Klink Concrete (INRM00184), Auburn Gear Inc. (INRM01782), Ball Brass and Aluminum Foundry Inc. (INRM01370), Cooper Standard Automotive (INRM01167), DeKalb County Airport (INRM00501), FXI Incorporated (INRM01118), Griffith Rubber Mills- Taylor Road (INRM00652), Harsco Industrial IKG (INRM01740), IPI Waterloo Recycling Center, LLC (INRM00487), Metal X Auburn (INRM01768), Momentive Performance Materials (INRM00519), Nucor Building Systems (INRM00941), OmniSource Corporation (INRM01759), OmniSource Corporation Auburn (INRM00784), and United Parcel Service Waterloo (INRM00244).
- e. Phillips Farm is a CAFO in Indiana; as such, it is prohibited from discharging to surface waterways.

Table H-31. TSS TMDL for St. Joseph River at HU outlet (HUC 04100003 08 06)

Duration interval	High	Moist	Mid-range	Dry	Low
	5%	25%	50%	75%	95%
TMDL at the mouth of the St. Joseph River (pounds per day)					
TMDL at mouth of St. Joseph River	677,899	251,306	80,179	24,688	7,353
TMDL at the Fort Wayne PWS intake	688,198	259,979	88,133	32,222	14,387
Withdrawal at the Fort Wayne PWS intake	-10,299	-8,672	-7,954	-7,535	-7,033
TMDL at the Fort Wayne PWS intake on the St. Joseph River (pounds per day)					
TMDL at the Fort Wayne PWS intake	688,198	259,979	88,133	32,222	14,387
Indiana upstream allocation	6,928	2,574	850	204	71
Michigan upstream allocation ^a	153,314	57,178	18,282	6,982	2,227
Ohio upstream allocation ^a	228,489	83,978	30,042	11,212	6,177
Cedar Creek at HU outlet (*07 07) TMDL (see Table H-30)	176,886	65,608	20,351	7,776	4,162
LA	88,787	36,143	12,701	3,509	365
WLA (sum)	21,536	9,434	4,047	1,935	1,211
MOS (5%)	6,129	2,532	930	302	87
AFG (5%)	6,129	2,532	930	302	87
Wasteload allocations at the Fort Wayne PWS intake on the St. Joseph River (pounds per day)					
Allen County & others (INR040131) MS4	6,648	2,706	951	263	27
Butler WWTP (IN0022462)	751	751	751	751	751
Butler WWTP (IN0022462) CSOs ^b	0	0	0	0	0
Construction stormwater	1,310	533	187	52	5
East Side High School (ING250077) ^c	--	--	--	--	--
Fort Wayne & others (INR040029) MS4	11,795	4,801	1,687	466	48
Fort Wayne Municipal WWTP (IN0032191) CSOs ^d	0	0	0	0	0
Fort Wayne Municipal WWTP (IN0032191) SSOs ^e	0	0	0	0	0
Fort Wayne Utilities - Honeysuckle Site (IN0063061)	5	5	5	5	5
Grabill Water Works (IN0044369)	13	13	13	13	13
Industrial stormwater ^f	546	222	78	22	2
Irish Acres Dairy, LLC CAFO ^g	0	0	0	0	0
Laub Farm LLC ^g	0	0	0	0	0
Mark S. Rekewege ^g	0	0	0	0	0
Northcrest Shopping Center (ING080271) ^c	--	--	--	--	--
Pickle Properties (IN0032981)	6	6	6	6	6
Stafford Gravel Inc. (ING490043)	10	10	10	10	10
Steel Dynamics Inc. (IN0059201)	300	300	300	300	300
Steel Dynamics Inc. (IN0059201) stormwater	109	44	16	4	1
St Joe – Spencerville RSD (IN0058441)	43	43	43	43	43

Notes

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

The TMDL at the mouth of the St. Joseph River is equivalent to the TMDL at the Fort Wayne PWS intake less the load withdrawn at the PWS intake.

- a. The Michigan and Ohio portions of this TMDL subwatershed are not impaired for their aquatic life use that would require a TSS TMDL.
- b. The WLAs for Butler WWTP (IN0022462) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP.
- c. Eagle-Picher Plastic Division (IN0000574; NCCW), East Side High School (ING250077; NCCW), and Northcrest Shopping Center (ING080271; groundwater petroleum remediation system) are not expected to be a source of TSS.
- d. The WLAs for Fort Wayne WWTP (IN032191) are set to 0 for CSO discharges, this does not mean the immediate prohibition of CSOs, but rather that another mechanism will address the CSOs. The mechanism that implements the CSO WLAs is the LTCP and the NPDES permit, the TMDL does not alter the ongoing activities and efforts of the LTCP and Consent Decree.
- e. This Fort Wayne Municipal WWTP (IN032191) WLA is for SSOs, which are prohibited discharges. The Fort Wayne CSS must comply with its LTCP and the Consent Decree.
- f. The gross WLA represents the following facilities: Auburn Transfer Station (INRM01233), DeKalb Molded Plastics Company (INRM01605), Guardian Automotive Products Incorporated (INRM01012), International Paper Company (INRM001734), Irving Ready Mix Inc. (INR210049), M & W Countertops Inc. (INRM01108), Magna Exteriors & Interiors (INRM1781), New Millennium Building Systems, LLC (INRM00985), Nucor Fastener (INRM00939), Nucor Vulcraft – St. Joe Division (INRM00978), Rhinehart Finishing LLC (INRM00263), R3 Composites Corporation (INRM00406), Sauder Manufacturing Company (INRM00121 and INRM00144), Sechlers Pickles Incorporated (INRM00421), Smith Field Airport (INRM01228), Speedway Transit Mix and Concrete Plant Management (INRM01671), and Therma Tru Corporation (INRM00973).
- g. Irish Acres Dairy, LLC, Laub Farm LLC, and Mark S. Rekewege are CAFOs in Indiana; as such, they are prohibited from discharging to surface waterways.