

Appendix A.

Waterbodies, Impairments, and Assessment Sites

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Abbreviations and Acronyms

IDEM	Indiana Department of Environmental Management
Michigan DEQ	Michigan Department of Environmental Quality
Ohio EPA	Ohio Environmental Protection Agency
SJRW	St. Joseph River watershed

A-1. Hydrologic Units in the SJRW

Table A-1. Hydrologic units in the SJRW

HUC-12 (04100003)	Hydrologic unit	State(s)	Drainage area (square miles) ^a
East Branch St. Joseph River (HUC 04100003 01)			
01 01	Pittsford Millpond-East Branch St Joseph River	MI	27.5
01 02	Anderson Drain-East Branch St Joseph River	MI	23.1
01 03	Laird Creek	MI	16.1
01 04	Bird Creek-East Branch St Joseph River	MI,OH	29.6
01 05	Silver Creek	MI	27.1
01 06	Clear Fork-East Branch St Joseph River	MI,OH	49.9
West Branch St. Joseph River (HUC 04100003 02)			
02 01	Cambia Millpond-East Fork West Branch St Joseph River	MI	26.6
02 02	East Fork West Branch St Joseph River	MI	22.0
02 03	West Fork West Branch St Joseph River	IN,MI	49.5
02 04	West Branch St Joseph River	MI,OH	16.2
Nettle Creek-St. Joseph River (HUC 04100003 03)			
03 01	Nettle Creek	IN,MI,OH	36.4
03 02	Cogswell Cemetery-St Joseph River	OH	9.7
03 03	Eagle Creek	OH	34.9
03 04	Village of Montpelier-St Joseph River	OH	20.8
03 05	Bear Creek	IN,OH	24.4
03 06	West Buffalo Cemetery-St Joseph River	OH	13.7
Fish Creek (HUC 04100003 04)			
04 01	West Branch Fish Creek	IN	15.6
04 02	Headwaters Fish Creek	IN,OH	13.8
04 03	Hamilton Lake	IN	16.5
04 04	Hiram Sweet Ditch	IN	22.3
04 05	Town of Alvarado-Fish Creek	IN,OH	16.0
04 06	Cornell Ditch-Fish Creek	IN,OH	24.7
Sol Shank Ditch-St. Joseph River (HUC 04100003 05)			
05 01	Bluff Run-St Joseph River	OH	23.7
05 02	Big Run	IN,OH	30.2
05 03	Russell Run-St Joseph River	OH	18.0
05 04	Buck Creek	IN,OH	18.2
05 05	Willow Run-St Joseph River	IN,OH	16.4
05 06	Sol Shank Ditch-St Joseph River	IN,OH	27.2
Matson Ditch-Cedar Creek (HUC 04100003 06)			
06 01	Cedar Lake-Cedar Creek	IN	28.9
06 02	Dibbling Ditch-Cedar Creek	IN	27.1
06 03	Matson Ditch	IN	17.5
06 04	Smith Ditch-Cedar Creek	IN	19.0
Cedar Creek (HUC 04100003 07)			
07 01	Headwaters John Diehl Ditch	IN	20.4
07 02	Peckhart Ditch-John Diehl Ditch	IN	18.7
07 03	Sycamore Creek-Little Cedar Creek	IN	24.7
07 04	Black Creek	IN	24.6
07 05	King Lake-Little Cedar Creek	IN	23.5
07 06	Willow Creek	IN	32.2
07 07	Dosch Ditch-Cedar Creek	IN	36.7

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St. Joseph River (HUC 04100003 08)

HUC-12 (04100003)	Hydrologic unit	State(s)	Drainage area (square miles) ^a
08 01	Hursey Ditches-Bear Creek	IN	27.3
08 02	Metcalf Ditch-St Joseph River	IN	33.6
08 03	Swartz Carnahan Ditch-St Joseph River	IN	19.8
08 04	Cedarville Reservoir-St Joseph River	IN	20.2
08 05	Ely Run-St Joseph River	IN	28.4
08 06	Becketts Run-St Joseph River	IN	20.5

Notes

HUC = hydrologic unit code.

- a. The drainage area, rounded to the nearest one-tenth square miles, was calculated in ArcGIS in the following projection: state plane Ohio North, North American Datum 1983.

A-2. Impairments in the SJRW

Table A-2. Ohio’s designated uses for waterbodies in the SJRW

Waterbody	ALU				Recreation	
	WWH	EWH	MWH	LRW	PCR	SCR
Maumee River - all other segments	X					
St. Joseph River	X				X	
Willow Run	X				X	
Amaden Ditch	X				X	
Greens Ditch	X				X	
Big Run	X				X	
Fish Creek - state line (RM 5.6) to county road 3 (RM 2.4)		X			X	
- all other segments	X				X	
Bluff Run	X				X	
Ziegler Ditch	X				X	
Bear Creek - headwaters to RM 1.2			X		X	
- all other segments	X				X	
Tamarack Ditch	X				X	
Eagle Creek	X				X	
North Branch	X				X	
Nettle Creek	X				X	
J. Lattener Ditch				X		X
West Branch St. Joseph River	X				X	
Each Branch St. Joseph River	X				X	
Clear Fork	X				X	
Silver Creek	X				X	

Source: OAC-3745-1-11.

Note: ALU = aquatic life use; AWS = agricultural water supply; EWH = exceptional warmwater habitat; IWS = industrial water supply; LRW = limited resources water; MWH = modified warmwater habitat - channel modification; PCR = primary contact recreation; RM = rivermile; SCR = secondary contact recreation; WWH = warmwater habitat. All listed waterbodies are agricultural water supplies and industrial water supplies.

Table A-3. Aquatic life use impairments in Ohio

HUC-12 (04100003)	Waterbody	Waterbody ID	Attainment	Cause(s) of impairment	Source(s) of impairment
East Branch St. Joseph River (04100003 01)					
01 06	Clear Fork	04-416-000	Partial	▪ Natural conditions	▪ Natural sources
West Branch St. Joseph River (04100003 02)					
02 04	West Branch St. Joseph River	04-414-000	Partial	▪ Nutrients	▪ Unknown
Nettle Creek-St. Joseph River (04100003 03)					
03 01	Nettle Creek	04-413-000	Partial	▪ Direct habitat alteration	▪ Habitat modification
03 03	Eagle Creek	04-411-000	Partial	▪ Direct habitat alteration ▪ Nutrients	▪ Habitat modification ▪ Agricultural nonpoint sources

Source: Angela Defenbaugh & Cathy Alexander, Ohio EPA, personal communication (via electronic mail), December 17, 2014.

Notes

The table is sorted by HUCs.

HUC = hydrologic unit code.

Table A-4. Recreation use impairments in Ohio

HUC-12 (04100003)	Waterbody	Waterbody ID	Attainment
East Branch St. Joseph River (04100003 01)			
01 06	Clear Fork	04-416-000	Non-attainment
	East Branch St. Joseph River	04-415-000	Non-attainment
	Silver Creek	04-417-000	Non-attainment
West Branch St. Joseph River (04100003 02)			
02 04	West Branch St. Joseph River	04-414-000	Non-attainment
Nettle Creek-St. Joseph River (04100003 03)			
03 01	Nettle Creek	04-413-000	Non-attainment
03 02	St. Joseph River	04-400-000	Non-attainment
03 03	Eagle Creek	04-411-000	Non-attainment
	North Branch Eagle Creek	04-412-000	Non-attainment
03 04	St. Joseph River	04-400-000	Non-attainment
03 05	Bear Creek	04-409-000	Non-attainment
03 06	St. Joseph River	04-400-000	Non-attainment
Fish Creek (04100003 04)			
04 02	Fish Creek	04-405-000	Non-attainment
04 06	Fish Creek	04-405-000	Non-attainment
Sol Shank Ditch-St. Joseph River (04100003 05)			
05 01	St. Joseph River	04-400-000	Non-attainment
05 02	Big Run	04-404-000	Non-attainment
05 03	St. Joseph River	04-400-000	Non-attainment
05 05	St. Joseph River	04-400-000	Non-attainment

Source: Angela Defenbaugh & Cathy Alexander, Ohio EPA, personal communication (via electronic mail), December 17, 2014.

Notes

The table is sorted by HUCs and the sites are listed in each 12-digit HUC from top to bottom alphabetically.

HUC = hydrologic unit code.

Table A-5. Aquatic life use impairments in Indiana

HUC-12 (04100003)	County	Assessment unit ID	Assessment unit name	Cause(s) of impairment
Fish Creek (HUC 04100003 04)				
04 01	Steuben	INA0341_01	West Branch Fish Creek	Impaired biotic communities
		INA0341_02		
04 05	DeKalb	INA0345_01	Fish Creek	Impaired biotic communities Dissolved oxygen
04 06	DeKalb	INA0346_01	Fish Creek	Impaired biotic communities
		INA0346_T1003	Fish Creek - unnamed tributary	Impaired biotic communities
Sol Shank Ditch-St. Joseph River (HUC 04100003 05)				
05 02	DeKalb	INA0352_04	Big Run	Impaired biotic communities
		INA0352_05		
Mason Ditch-Cedar Creek (HUC 04100003 06)				
06 01	DeKalb	INA0361_03	Cedar Creek	Nutrients
		INA0361_04		
06 02	DeKalb	INA0362_02	Cedar Creek	Nutrients
		INA0362_03		
		INA0362_04		
		INA0363_03		
06 03	DeKalb	INA0363_T1001	Mason Ditch - unnamed tributary	Impaired biotic communities
06 04	DeKalb	INA0364_T1001	Smith Ditch	Impaired biotic communities
Cedar Creek (HUC 04100003 07)				
07 02	DeKalb	INA0372_01	Peckhart Ditch	Impaired biotic communities
		INA0372_01		Dissolved oxygen
07 04	DeKalb	INA0374_05	Black Creek	Impaired biotic communities
07 05	DeKalb	INA0375_05	Little Cedar Creek	Impaired biotic communities
	Allen	INA0375_06		
	DeKalb	INA0375_T1007	Little Cedar Creek - unnamed tributary	Impaired biotic communities
07 07	DeKalb	INA0377_03	Cedar Creek	Impaired biotic communities
	Allen	INA0377_04	Cedar Creek	Impaired biotic communities
	DeKalb	INA0377_T1002	Dosch Ditch	Impaired biotic communities Nutrients
St. Joseph River (HUC 04100003 08)				
08 06	Allen	INA0386_01	St. Joseph River	Impaired biotic communities

Source: Draft 2014 Indiana 303d list (IDEM 2014b)

Notes

The table is sorted by HUCs.

HUC = hydrologic unit code.

Table A-6. Recreation use impairments in Indiana

HUC-12 (04100003)	County	Assessment unit ID	Assessment unit name	Cause(s) of impairment
Fish Creek (HUC 04100003 04)				
04 01	Steuben	INA0341_01	West Branch Fish Creek	<i>E. coli</i>
		INA0341_02		
04 02	Steuben	INA0342_01	Fish Creek	<i>E. coli</i>
		INA0342_T1003	Fish Creek - unnamed tributary	<i>E. coli</i>
		INA0342_T1004		
04 04	DeKalb	INA0344_03	Hiram Sweet Ditch	<i>E. coli</i>
04 05	Steuben	INA0345_01	Fish Creek	<i>E. coli</i>
04 06	DeKalb	INA0346_01	Fish Creek	<i>E. coli</i>
		INA0346_T1003	Fish Creek - unnamed tributary	<i>E. coli</i>
Sol Shank Ditch-St. Joseph River (HUC 04100003 05)				
05 02	DeKalb	INA0352_04	Big Run	<i>E. coli</i>
		INA0352_05		
Mason Ditch-Cedar Creek (HUC 04100003 06)				
06 01	DeKalb	INA0361_01	McCullough Ditch	<i>E. coli</i>
		INA0361_01A	McCullough Ditch - upstream Indian Lake	<i>E. coli</i>
		INA0361_02	Leins Ditch	<i>E. coli</i>
		INA0361_03	Cedar Creek	<i>E. coli</i>
		INA0361_04		
		INA0361_T1001	McCullough Ditch - unnamed tributary	<i>E. coli</i>
		INA0361_T1002		
06 02	DeKalb	INA0362_02	Cedar Creek	<i>E. coli</i>
		INA0362_03		
		INA0362_04		
		INA0362_T1004	Swartz Ditch	<i>E. coli</i>
		INA0363_03	Cedar Creek	<i>E. coli</i>
06 03	DeKalb	INA0363_T1001	Mason Ditch - unnamed tributary	<i>E. coli</i>
06 04	DeKalb	INA0364_01	Cedar Creek	<i>E. coli</i>
		INA0364_02		
		INA0364_03		
		INA0364_04		
		INA0364_05		
		INA0364_06		
		INA0364_T1001	Smith Ditch	<i>E. coli</i>
INA0364_T1002				

HUC-12 (04100003)	County	Assessment unit ID	Assessment unit name	Cause(s) of impairment
Cedar Creek (HUC 04100003 07)				
07 02	DeKalb	INA0372_01	Peckhart Ditch	<i>E. coli</i>
		INA0372_02	Diehl Ditch	<i>E. coli</i>
		INA0372_T1002	Ober Ditch	<i>E. coli</i>
		INA0372_T1002A		
		INA0372_T1003	Ober Ditch - unnamed tributary	<i>E. coli</i>
07 04	Noble	INA0374_03	Black Creek	<i>E. coli</i>
		INA0374_04		
	DeKalb	INA0374_05		
	Noble	INA0374_T1008	Bilger Ditch	<i>E. coli</i>
		INA0374_T1009	Wahn Ditch	<i>E. coli</i>
		INA0374_T1010	Black Creek - unnamed tributary	<i>E. coli</i>
07 05	DeKalb	INA0375_01	Little Cedar Creek	<i>E. coli</i>
		INA0375_02		
		INA0375_03		
		INA0375_04		
		INA0375_05		
	Allen	INA0375_06	Little Cedar Creek	<i>E. coli</i>
07 06	Allen	INA0376_02	Willow Creek	<i>E. coli</i>
		INA0376_03		
		INA0376_T1004	Krumlauf Ditch	<i>E. coli</i>
07 07	DeKalb	INA0377_01	Cedar Creek	<i>E. coli</i>
		INA0377_02		
		INA0377_03		
	Allen	INA0377_04	Cedar Creek	<i>E. coli</i>
	DeKalb	INA0377_T1001	Garrett City Ditch	<i>E. coli</i>
St. Joseph River (HUC 04100003 08)				
08 02	DeKalb	INA0382_01	St. Joseph River	<i>E. coli</i>
08 03	Allen	INA0383_01	St. Joseph River	<i>E. coli</i>
	Allen	INA0383_T1003	Bogger Ditch	<i>E. coli</i>

Source: Draft 2014 Indiana 303d list (IDEM 2014b)

Notes

The table is sorted by HUCs.

HUC = hydrologic unit code.

A-3. Assessment Sites in the SJRW

Table A-7. Michigan DEQ assessment sites on tributaries to the St. Joseph River

Waterbody	Site ID	Site name	Level III ecoregion	Stream type
East Branch St. Joseph River (HUC 04100003 01)				
Pittsford Millpond-East Branch St. Joseph River (HUC 04100003 01 01)				
Otto Creek	300231	at Rumsey Road	ECBP	warmwater
East Branch St. Joseph River	300220	at Tripp Road	ECBP	coldwater
Anderson Drain-East Branch St. Joseph River (HUC 04100003 01 02)				
East Branch St. Joseph River	300222	at Camcross Road	ECBP	warmwater
	300221	at Prattville Road	ECBP	warmwater
Goose Creek	300229	at Prattville Road	ECBP	warmwater
Laird Creek (HUC 04100003 01 03)				
Laird Creek	300262	at Camden Road	ECBP	warmwater
	300225	at Territorial Road	ECBP	warmwater
Bird Creek-East Branch St. Joseph River (HUC 04100003 01 04)				
Bird Creek	300261	at Camden Road	ECBP	warmwater
	300224	at Hartly Road	ECBP	warmwater
East Branch St. Joseph River	300260	at Camden Road	ECBP	warmwater
	300223	at Pittsford Road	ECBP	warmwater
Silver Creek (HUC 04100003 01 05)				
South Fork Silver Creek	300219	Campton Road	ECBP	warmwater
Silver Creek	300263	at Camden Road	ECBP	warmwater
Clear Fork-East Branch St. Joseph River (HUC 04100003 01 06)				
Clear Fork Creek	300218	at Hillsdale Road	ECBP	warmwater
Nile Ditch	300228	at Tamarack Road	ECBP	warmwater
West Branch St. Joseph River (HUC 04100003 02)				
Cambia Millpond-East Fork West Branch St. Joseph River (HUC 04100003 02 01)				
East Fork West Branch St. Joseph River	300215	at Card Road	ECBP	warmwater
East Fork West Branch St. Joseph River (HUC 04100003 02 02)				
East Fork West Branch St. Joseph River	300216	at Burt Road	ECBP	warmwater
	300264	at Camden Road	ECBP	warmwater
	300217	at Territorial Road	ECBP	warmwater
West fork West Branch St. Joseph River (HUC 04100003 02 03)				
Prouty Drain	300214	at Brott Road	ECBP	warmwater
West Fork West Branch St. Joseph River	300267	at Bump Road	ECBP	warmwater
	300209	at Brott Road	ECBP	warmwater
	300266	at Montgomery Road	ECBP	warmwater
	300211	at Edon Road	ECBP	warmwater
	300212	at Camden Road	ECBP	warmwater
	300205	at Camden Road	ECBP	warmwater
	300213	at Territorial Road	ECBP	warmwater

Sources: Michigan DEQ 2004, 2005a,b

Notes

ECBP = Eastern Corn Belt Plains; HUC = hydrologic unit code.

The table is sorted by HUCs and the sites are listed in each 12-digit HUC from top to bottom as upstream to downstream.

Table A-8. Ohio EPA assessment sites on tributaries to the St. Joseph River

Waterbody	RM	Site ID	Site name	Drainage area (sq. mi.)	Size	Level III ecoregion	ALU
East Branch St. Joseph River (HUC 04100003 01)							
Clear Fork-East Branch St. Joseph River (HUC 04100003 01 06)							
Clear Fork	6.22	P08K32	SR-576	15.1	H	ECBP	WWH
	2.17	P08K31	CR-13	21.1	W	ECBP	WWH
East Branch St. Joseph River	4.77	P08K30	CR-S	95.0	B	ECBP	WWH
	1.06	P08K29	SR-15	163.0	B	ECBP	WWH
Silver Creek	1.25	P08S23	CR-15	31.4	H	ECBP	WWH
West Branch St. Joseph River (HUC 04100003 02)							
West Branch St. Joseph River (HUC 04100003 02 04)							
West Branch St. Joseph River	10.48	P08S22	near state line, TR-S	98.0	B	ECBP	WWH
	8.50	P08K28	upstream of Lake Seneca, CR-8	99.0	B	ECBP	WWH
	3.13	P08S21	downstream of Lake Seneca, TR-115	109.0	B	ECBP	WWH
	0.70	302198	US-20, near mouth	114.3	B	ECBP	WWH
Nettle Creek-St. Joseph River (HUC 04100003 03)							
Nettle Creek (HUC 04100003 03 01)							
Nettle Creek	14.48	P08S09	upstream of Nettle Lake, TR-72	19.1	H	ECBP	WWH
	11.23	P08K25	downstream of Lake Sa Su An, CR-7	25.0	W	ECBP	WWH
	5.08	P08K24	CR-8.50, adjacent to Bridgewater Dairy	31.0	W	ECBP	WWH
	1.37	P08S06	CR-N-30	36.0	W	ECBP	WWH
Eagle Creek (HUC 04100003 03 03)							
Eagle Creek	8.28	P08K22	CR-675	21.1	W	ECBP	WWH
	4.90	P08K21	CR-M	24.2	W	ECBP	WWH
	0.50	P08S01	CR-J	34.7	W	ECBP	WWH
North Branch Eagle Creek	0.02	P08K23	at mouth, CR-M-50	12.9	H	ECBP	WWH
Bear Creek (HUC 04100003 03 05)							
Bear Creek	5.70	P08K18	downstream of Edon WWTP, CR-675	13.6	H	ECBP	MWH
	2.43	P08K15	CR-I	22.0	W	ECBP	MWH
	0.54	510150	SR-34	24.2	W	ECBP	WWH
Fish Creek (HUC 04100003 04)							
Headwaters Fish Creek (HUC 04100003 04 02)							
Fish Creek	30.54	P08K12	upstream of Columbia, CR-P-25	8.8	H	ECBP	WWH
Cornell Ditch-Fish Creek (HUC 04100003 04 06)							
Fish Creek	5.40	P08K10	downstream of state line, TR-171	106.0	W	ECBP	EWI
	2.40	P08K09	CR-3	108.0	W	ECBP	EWI
	0.38	P08S20	Edgerton, SR-49	109.0	W	ECBP	WWH

Waterbody	RM	Site ID	Site name	Drainage area (sq. mi.)	Size	Level III ecoregion	ALU
Sol Shank Ditch-St. Joseph River (HUC 04100003 05)							
Big Run-St. Joseph River (HUC 04100003 05 02)							
Big Run	0.30	P08K08	Edgerton, Conkle Road	30.0	W	ECBP	WWH

Source: Ohio EPA 2013.

Notes

ALU = aquatic life use designation; B = boating; CR = county road; ECBP = Eastern Corn Belt Plains; EWH = exceptional warmwater habitat; H = headwaters; MWH = modified warmwater habitat; RM = river mile; SR = state route; TR = township road; US = United States route; W = wading; WWH = warmwater habitat; WWTP = wastewater treatment plant. The table is sorted by HUCs and the sites are listed in each 12-digit HUC from top to bottom as upstream to downstream.

Table A-9. Ohio EPA assessment sites on the St. Joseph River

Waterbody	RM	Site ID	Site name	Drainage area (sq. mi.)	Size	Level III ecoregion	ALU
Nettle Creek-St. Joseph River (HUC 04100003 03)							
Cogswell Cemetery-St. Joseph River (HUC 04100003 03 02)							
St. Joseph River	81.18	P08S19	upstream of Montpelier, CR-N	288.0	B	ECBP	WWH
Montpelier-St. Joseph River (HUC 04100003 03 04)							
St. Joseph River	76.72	302199	CR-M dead end, at fairgrounds	338.0	B	ECBP	WWH
	73.24	P08S18	downstream of Montpelier, CR-10	337.0	B	ECBP	WWH
West Buffalo-St. Joseph River (HUC 04100003 03 06)							
St. Joseph River	62.08	P08S17	SR-34	394.0	B	ECBP	WWH
Sol Shank Ditch-St. Joseph River (HUC 04100003 05)							
Bluff Run-St. Joseph River (HUC 04100003 05 01)							
St. Joseph River	56.77	P08S16	upstream of Edgerton WWTP, CR-E75	435.0	B	ECBP	WWH
Russell Run-St. Joseph River (HUC 04100003 05 03)							
St. Joseph River	51.90	P08K03	downstream of Edgerton WWTP	552.0	B	ECBP	WWH
	49.75	510180	downstream of Edgerton, SR-49	554.0	B	ECBP	WWH
	47.30	P08K02	County Line Road	556.0	B	ECBP	WWH
Willow Run-St. Joseph River (HUC 04100003 06)							
St. Joseph River	42.34	510220	near Ohio-Indiana state line, SR-249	609.0	B	ECBP	WWH

Source: Ohio EPA 2013.

Notes

ALU = aquatic life use designation; B = boating; CR = county road; ECBP = Eastern Corn Belt Plains; RM = river mile; SR = state route; WWH = warmwater habitat; WWTP = wastewater treatment plant. The table is sorted by HUCs and the sites are listed in each 12-digit HUC from top to bottom as upstream to downstream.

Table A-10. IDEM assessment sites on tributaries to the St. Joseph River

Waterbody	Site ID	Site name	Level III ecoregion
West Branch St. Joseph River (04100003 02)			
Headwaters Fish Creek (HUC 04100003 02 03)			
Clear Lake	3869	LEJ020-0001	SMNIDP
	8864	LEJ020-0002	SMNIDP
Lake Anne	9334	LEJ020-0004	SMNIDP
Round Lake	9042	LEJ020-0003	SMNIDP
Nettle Creek-St. Joseph River (04100003 03)			
Nettle Creek (HUC 04100003 03 01)			
Handy Lake	9331	LEJ030-0002	SMNIDP
Long Lake	8976	LEJ030-0001	SMNIDP
Mirror Lake	9332	LEJ030-0003	SMNIDP
Fish Creek (04100003 04)			
West Branch Fish Creek (HUC 04100003 04 01)			
West Branch Fish Creek	6930	LEJ050-0020	SMNIDP
	9921	LEJ050-0064	SMNIDP
Headwaters Fish Creek (HUC 04100003 04 02)			
Fish Creek	6054	LEJ050-0015	SMNIDP
	6937	LEJ050-0023	SMNIDP
Hamilton Lake (HUC 04100003 04 03)			
Black Creek	6032	LEJ050-0014	SMNIDP
Hamilton Lake	3848	LEJ050-0009	SMNIDP
	8922	LEJ050-0061	SMNIDP
UT of Black Creek	3523	LEJ050-0002	SMNIDP
Hiram Sweet Ditch (HUC 04100003 04 04)			
Ball Lake	8818	LEJ050-0060	SMNIDP
Fish Creek	6995	LEJ050-0050	SMNIDP
	6997	LEJ050-0052	SMNIDP
	6023	LEJ050-0013	SMNIDP
	7000	LEJ050-0054	SMNIDP
(effluent)	6999	LEJ050-0053, Hamilton WWTP	SMNIDP
Town of Alvarado-Fish Creek (HUC 04100003 04 05)			
Fish Creek	3868	LEJ050-0010	SMNIDP
Fish Creek	6947	LEJ050-0027	SMNIDP
Fish Creek	1928	LEJ050-0006	SMNIDP
Fish Creek	6952	LEJ050-0029	SMNIDP
Fish Creek	6958	LEJ050-0032	SMNIDP
Fish Creek	13144	LEJ050-0066	SMNIDP
UT of Fish Creek	6944	LEJ050-0026	SMNIDP
Cornell Ditch-Fist Creek (HUC 04100003 04 06)			
Fish Creek	6966	LEJ050-0040	ECBP
	3790	LEJ050-0008	ECBP
	6961	LEJ050-0035	ECBP
	6003	LEJ050-0012	ECBP
	2005	LEJ050-0007	ECBP
	13168	LEJ050-0068	ECBP
	13300	LEJ050-0011	ECBP

Waterbody	Site ID	Site name	Level III ecoregion
UT of Fish Creek	3516	LEJ050-0001	ECBP
	6993	LEJ050-0048	ECBP
Sol Shank Ditch-St. Joseph River (04100003 05)			
Big Run (HUC 04100003 05 02)			
Big Run	13189	LEJ060-0015	ECBP
	3559	LEJ060-0002	ECBP
Buck Creek (HUC 04100003 05 04)			
Metcalf Ditch	3559	LEJ060-0002	ECBP
	15068	LEJ-05-0001	ECBP
Matson Ditch-Cedar Creek (04100003 06)			
Cedar Lake-Cedar Creek (HUC 04100003 06 01)			
Cedar Creek	4182	LEJ080-0005	SMNIDP
Indian Lake	9140	LEJ080-0012	SMNIDP
Leins Ditch	13172	LEJ080-0016	SMNIDP
UT of Leins Ditch	9756	LEJ080-0014	SMNIDP
Dibbling Ditch-Cedar Creek (HUC 04100003 06 02)			
Cedar Creek	5990	LEJ080-0011	SMNIDP
	4184	LEJ080-0006	SMNIDP
Swartz Ditch	4186	LEJ080-0008	ECBP
Matson Ditch (HUC 04000003 06 03)			
UT Matson Ditch	9746	LEJ080-0013	SMNIDP
Smith Ditch-Cedar Creek (HUC 04100003 06 04)			
Cedar Creek	4185	LEJ080-0007	ECBP
	5976	LEJ080-0010	ECBP
	3793	LEJ080-0004	ECBP
	4189	LEJ080-0009	ECBP
West Smith Ditch	13184	LEJ080-0017	ECBP
Cedar Creek (04100003 07)			
Headwaters John Diehl Ditch (HUC 04100003 07 01)			
John Diehl Ditch	5983	LEJ090-0025	SMNIDP
Wiley Lake	9189	LEJ090-0030	SMNIDP
Peckhart Ditch-John Diehl Ditch (HUC 04100003 07 02)			
John Diehl Ditch	4190	LEJ090-0018	ECBP
Peckhart Ditch	13160	LEJ090-0040	ECBP
	9793	LEJ090-0034	ECBP
Black Creek (HUC 04100003 07 04)			
Black Creek	13164	LEJ090-0041	ECBP
King Lake-Little Cedar Creek (HUC 04100003 07 05)			
Little Cedar Creek	3826	LEJ090-0010	SMNIDP
	5959	LEJ090-0024	ECBP
	9787	LEJ090-0033	ECBP
	4187	LEJ090-0017	ECBP
UT of Little Cedar Creek	3568	LEJ090-0002	ECBP
Willow Creek (HUC 04100003 07 06)			
Willow Creek	5946	LEJ090-0023	ECBP
	4192	LEJ090-0020	ECBP

Waterbody	Site ID	Site name	Level III ecoregion
Dosch Ditch-Cedar Creek (HUC 04100003 07 07)			
Cedar Creek	3794	LEJ090-0009	ECBP
Cedar Creek	4188	LEJ090-0021	ECBP
Cedar Creek	9733	LEJ090-0031	ECBP
Cedar Creek	2001	LEJ090-0008	ECBP
Cedar Creek	3519	LEJ090-0001	ECBP
Cedar Creek	6645	LEJ090-0026	ECBP
Cedar Creek	3571	LEJ090-0003	ECBP
Cedar Creek	3870	LEJ090-0011	ECBP
Cedar Creek	5935	LEJ090-0022	ECBP
Dosch Ditch	3587	LEJ090-0004	ECBP
Garrett City Ditch	3900	LEJ090-0016	ECBP
	3889	LEJ090-0013	ECBP
	3890	LEJ090-0014	ECBP
	3891	LEJ090-0015	ECBP
(effluent)	3888	LEJ090-0012, Garrett WWTP	ECBP
St. Joseph River (HUC 04100003 08)			
Bear Creek (HUC 0410000 08 01)			
Bear Creek	3535	LEJ070-0002	ECBP
	5969	LEJ070-0020	ECBP
Swartz Cannahan Ditch-St. Joseph River (04100003 08 03)			
Dunton Lake	9129	LEJ070-0023	ECBP
Hilkey Ditch	4165	LEJ070-0015	ECBP
Swartz-Carnahan Ditch	4166	LEJ070-0016	ECBP
	5951	LEJ070-0018	ECBP
	4167	LEJ070-0017	ECBP
Cedarville Reservoir-St. Joseph River (HUC 04100003 08 04)			
Cedarville Reservoir	9121	LEJ070-0022	ECBP
Ely Run-St. Joseph River (HUC 04100003 08 05)			
Revert Ditch	4163	LEJ100-0012	ECBP
Tiernan Ditch	4162	LEJ100-0011	ECBP
Tiernan Ditch	4161	LEJ100-0010	ECBP
Tiernan Ditch	4057	LEJ100-0005	ECBP
Tiernan Ditch	4160	LEJ100-0009	ECBP
Tiernan Ditch	5924	LEJ100-0014	ECBP
Becketts Run-St. Joseph River (HUC 04100003 08 06)			
Becketts Run	3555	LEJ100-0001	ECBP

Source: IDEM 2014a

Notes

ECBP = Eastern Corn Belt Plains; SMNIDP = Southern Michigan/Northern Indiana Drift Plain; UT = unnamed tributary.

The table is sorted by HUCs and the sites are listed in each 12-digit HUC from top to bottom as upstream to downstream per waterbody.

Table A-11. IDEM assessment sites on the St. Joseph River

Waterbody	Site ID	Site name	Level III ecoregion
Sol Shank Ditch-St. Joseph River (04100003 05)			
Willow Run-St. Joseph River (HUC 04100003 05 05)			
St. Joseph River	3817	LEJ060-0007	ECBP
Hoodelmier Ditch-St. Joseph River (HUC 04100003 05 06)			
St. Joseph River	2006	LEJ060-0006	ECBP
	3511	LEJ060-0001	ECBP
St. Joseph River (HUC 04100003 08)			
Metcalf Ditch-St. Joseph River (HUC 04100003 08 02)			
St. Joseph River	3872	LEJ070-0008	ECBP
	3495	LEJ070-0001	ECBP
	5966	LEJ070-0019	ECBP
Swartz Cannahan Ditch-St. Joseph River (HUC 04100003 08 03)			
St. Joseph River	9782	LEJ070-0027	ECBP
	9764	LEJ070-0026	ECBP
Cedarville Reservoir-St. Joseph River (HUC 04100003 08 04)			
St. Joseph River	3784	LEJ070-0006	ECBP
	13119	LEJ070-0028	ECBP
Ely Run-St. Joseph River (HUC 04100003 08 05)			
St. Joseph River	2007	LEJ100-0002	ECBP
Becketts Run-St. Joseph River (HUC 04100003 08 06)			
St. Joseph River	13180	LEJ100-0026	ECBP
	15053	LEJ-08-0005	ECBP
	8031	LEJ100-0018	ECBP
	3783	LEJ100-0004	ECBP
	8029	LEJ100-0016	ECBP
	9068	LEJ100-0023	ECBP
	2009	LEJ100-0003	ECBP
	5907	LEJ100-0013	ECBP

Source: IDEM 2014a

Notes

ECBP = Eastern Corn Belt Plains.

The table is sorted by HUCs and the sites are listed in each 12-digit HUC from top to bottom as upstream to downstream.

A-4. References

- IDEM (Indiana Department of Environmental Management). 2014a. Fish community, fish tissue, Index of Biotic Integrity, macroinvertebrate community, and water chemistry monitoring data files. IDEM. Provided by Staci Goodwin (IDEM) via file transfer protocol site on December 9, 2014.
- . 2014b. *Integrated Water Monitoring and Assessment Report*. April 1, 2014. <http://www.in.gov/idem/nps/2639.htm>. Accessed July 22, 2014.
- Michigan DEQ (Michigan Department of Environmental Quality). 2004. *Biological Surveys of Tributaries of Two CAFOs in the St. Joseph and Bean/Tiffin Watersheds, Hillsdale and Lenawee Counties, June 10, 11, and 19, 2003*. MI/DEQ/WD-03/092. Michigan DEQ, Water Bureau. April 2004. Provided by Aaron Parker (Michigan DEQ) via SharePoint on November 18, 2014.
- . 2005a. *A Biological Survey of the East and West Branches of the St. Joseph River Watershed and Bean Creek Watershed in Southern Lenawee and Hillsdale Counties, July and August 2000*. MI/DEQ/WD-04/093. Michigan DEQ, Water Bureau. May 2005. Provided by Aaron Parker (Michigan DEQ) via SharePoint on November 18, 2014.
- . 2005b. *Biological Surveys to Tributaries of the Maumee (St. Joseph) River Watershed in Hillsdale and Lenawee Counties, Michigan, June 7-15, 2005*. MI/DEQ/WD-05/103. Michigan DEQ, Water Bureau. November 29, 2005 (revised). Provided by Aaron Parker (Michigan DEQ) via SharePoint on November 18, 2014.
- Ohio EPA (Ohio Environmental Protection Agency). 2013. *Biological and Water Quality Survey of the St. Joseph River and Selected Tributaries, Williams and Defiance Counties, Ohio*. Ohio EPA, Division of Surface Water. May 21, 2013. Provided by Angela Defenbaugh (Ohio EPA) via electronic mail on October 20, 2014.