

CSO Annual Notification

2023

Compiled annual data pursuant to the requirement of 40 CFR Part
122.38(b)



2023

CSO Annual Notice

40 CFR Part 122.38(b)

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1. Description of the Location and Receiving Water for CSOs

Table 1.1 lists the location and receiving stream of each Combined Sewer Overflow (CSO). In addition, these locations are graphically represented on a map of the City of Mishawaka in Figure 1.1

**Table 1.1
Permitted CSO Locations**

Outfall	Location	Latitude ^a	Longitude ^a	Receiving Water
002	N. of Middleboro Lift Station	41° 39' 38" N	86° 12' 48" W	St. Joseph River
003	NW of Logan and Lincolnway	41° 39' 36" N	86° 11' 48" W	St. Joseph River
004	S of Wilson at Calhoun	41° 39' 44" N	86° 11' 43" W	St. Joseph River
006	S of Wilson at Clay	41° 39' 51" N	86° 11' 32" W	St. Joseph River
008	S of Mishawaka Ave at Charlotte	41° 39' 54" N	86° 11' 17" W	St. Joseph River
009	N of Front St. at West St.	41° 39' 52" N	86° 11' 10" W	St. Joseph River
011	SW of Mishawaka Ave. at Christyann St.	41° 39' 52" N	86° 10' 43" W	St. Joseph River
012	N of Lincolnway at Cedar St.	41° 39' 42" N	86° 10' 25" W	St. Joseph River
013	NE of Lincolnway and Cedar St.	41° 39' 42" N	86° 10' 21" W	St. Joseph River
014	NW of Merrifield at Homewood	41° 39' 51" N	86° 10' 03" W	St. Joseph River
015	W of Niles at St. Joseph St.	41° 39' 56" N	86° 10' 01" W	St. Joseph River
016	E of N Merrifield at Battell St.	41° 40' 08" N	86° 10' 03" W	St. Joseph River
018	N of Roosevelt St. and Linden St.	41° 39' 56" N	86° 08' 36" W	St. Joseph River
019	SW of Main St. and Mishawaka Ave.	41° 39' 56" N	86° 10' 54" W	St. Joseph River
020	W of Mariellen at 3 rd St.	41° 39' 39" N	86° 08' 09" W	Eller Ditch
021	N of Linden at Home St.	41° 39' 56" N	86° 08' 53" W	St. Joseph River

* CSO locations based on 2022 NPDES Permit

2. Documentation of CSO Volume and Duration

Table 2.1 Summarizes CSO volume and duration for each occurrence during the year.

3. Documentation of Dry Weather CSO Volume and Duration

In 2023 there were no CSO dry weather overflows.

4. CSO Monitoring Data

CSO volume and duration is quantified through a calibrated SWMM model. Recalibration of the model using in-sewer meters began in June of 2023. Final results should be available by the end of the year. Other monitoring is not conducted.

5. Description of Potentially-impacted Public Access Areas

Mishawaka has four (4) locations in which public access could be potentially impacted.

These locations are:

- Lincoln Park Boat Ramp
- Merrifield Park Boat Ramp
- Monkey Island Boat Ramp
- Zappia Fishing Park

The location of public access areas is marked on Figure 1.1

6. Precipitation Data

All precipitation data that resulted in a CSO is documented in Table 2.1

7. Permittee Contact Information

City of Mishawaka
Mishawaka Utilities Wastewater Division
1020 Lincolnway West
Mishawaka, IN 46545
(574) 258-1655

8. Nine Minimum Controls Summary and Implementation status of LTCP

NMC #1: Proper Operation and Maintenance

The Mishawaka Sewer Department has 17 employees, 2 combination sewer cleaning machines, 2 television inspection trucks, several utility vehicles including a backhoe, and a cement mixer trailer to perform various duties. They have a GIS/Locates/New Inspection Department, which locates sewer lines for contractors before digging, inspects new construction connections, and locates City assets in the ground to document their actual locations.

2023 Collection System Summary	
Total Sewer (Sanitary and Storm)	354 miles
Sewer Lines Cleaned	41.39 miles
Sewer Lines Televised	46.45 miles
Residential Service Calls	191
Residential Service after hours	23
Residential Laterals Televised	50
Sewer Insurance Claims	76
Sewer Permit Inspections	188
Sewer Line Rehab. CIPP	5,054 feet
Sewer Lines Rehabilitated	25 segments
Manhole Rehab. (poly line)	39
Rehab. Cost Total	\$1 million

System Inventory:

The City has a detailed GIS collection system map drawn to scale showing all separate, combined and storm sewers with sewer sizes, length, slope, material, direction of flow, interceptors, manhole location and elevations, catch basins, pump stations, CSO locations, and the WWTP.

NMC #2: Maximum Use of the Collection System for Storage

The City has modified CSO diversion structures by raising weirs to provide additional in-system storage and additional hydraulic capacity in the Interceptor. Between the years 1989 and 2015, at least 20 CSO diversion structures have been modified which increased the Interceptor capacity. In addition, the City added parallel Front St. interceptor sewer from CSO 009 to the WWTP and expanded the capacity of River Crossing #2 in Central Park.

In 2020 the City made some large strides in these continued sewer separation improvements including major improvements in and around Crawford Park, The Linden Project Area, West Street, and the 3rd Street Corridor.

In Crawford Park area the combined sewer overflow was relocated and two new concrete diversion structures were constructed. The construction continued through 2021 with the installation of new 30-inch and 72-inch sewer, and the replacement and rerouting of approximately 600 feet of existing 48-inch sewer within Crawford Park. Despite some delays due to pipe availability associated with the impacts of the pandemic, over 600 feet of new 18-inch force main was installed for future use. The project was completed in spring 2022. The estimated total City investment in this project is 4 million dollars.

Linden Area

The Linden Area sewer separation is an element of the original Long Term Control Plan (LTCP), which includes the area south of the St. Joseph River roughly bounded by Merrifield Avenue, Fourth Street, and Roosevelt Avenue. As part of the city's ongoing efforts to reduce the amount of stormwater conveyed in combined sewers, the city studied the Linden Avenue combined trunk sewer area to develop a plan for a new storm trunk line which would allow for the separation of the storm flows. The study area was later expanded to include the area south of the Norfolk Southern railroad to Eighth Street between Byrkit Avenue and Campbell Street. This study led to development of plans for a trunk storm sewer crossing the Eberhart-Petro Golf Course to outfall in the south bank of St. Joseph River. There are several divisions to complete the entire system over the next several years (see Exhibit C for project phasing). In addition to the storm sewer separations, all the projects will include rehabilitation or



replacement of the existing main line sanitary sewer system, replacement of individual sewer laterals and water service lines, and removal and replacement of all surface improvements from back of sidewalk to back of sidewalk bringing all sidewalks into ADA compliance.



Linden Division M Phase 1B

The projects began in 2016 with Division A – Phase I completing twin storm trunk pipelines across the golf course to the river. Divisions A – Phase II, B, and C were completed in 2017. Divisions N & P, along Byrkit from the railroad to Linden Avenue including the Lincolnway intersection, were constructed in 2018 and began the construction of a 30-inch/36-inch dedicated sanitary sewer line to facilitate the separation of the sanitary sewer flow. Division M Phase 1A was slowed by the requirements of Norfolk Southern railroad, but finally the 36-inch dedicated sanitary sewer line was continued under the railroad and this project was completed in 2022.

Linden Division M Phase 1B began in 2020, but due to the delays with the railroad with Division M Phase 1A, very little progress has been possible until 2022. Linden M Phase 1B separates

flows south of the railroad tracks and improves portions of Sixth Street, Bradford Court, and Fifth Street. The remaining portion of the project was dependent on the jack and bore under the railroad (which was not completed until late fall 2021) thereby delaying Phase 1B until 2022. Construction of the remainder began in 2022 with completion anticipated in early summer of 2023. Once Linden Division M Phase 1B is complete, the existing large diameter (60-inch/66-inch) sewer, which continues south under the railroad within Byrkit Avenue, will become a dedicated storm sewer with outfall utilizing twin 54" storm sewer at the river. This Linden Division M1B completion is a pivotal point in the plan for future projects of the Linden Area and Twelfth Street Phase III. The estimated City investment for Linden Division M Phase 1B is \$3.5 million.

The completed and ongoing investment in the Linden Area totals \$14.4 million. Division M Phase 2 will provide new storm and sanitary sewer systems as well as street improvements for the remainder of the neighborhood south of the Norfolk Southern railroad within the Linden study area. Current estimated construction for this area is 2025 and 2026, however funding availability is tentative at this time due to ongoing marketplace volatility.

West Street Sewer System Improvements Phase III

This project is a continuation of the storm sewer and infrastructure improvements defined in the 2013 West Street Master Plan and incorporated into the city's Sewer Separation and Neighborhood Revitalization Plan. Every West Street Phase completed will reduce wet weather flow contribution to the existing combined sewer system resulting in minimized combined sewer overflows as part of the city's Long Term Control Plan. The West Street Phase III area is expansive which requires it to be split into fundable project sizes as shown on Exhibit D. West Street Phase IIIA included West Street from Sixth Street to Seventh Street, Wells Street from Kamms Court to Sixth Street, and Fifth Street and Sixth Street between West Street and Wells Street and was completed in 2021 with a City investment of \$1.9 million.

West Street Phase IIIB design was completed in 2022 and will include West Street from Seventh Street to south of Eighth Street, Seventh Street from Wells to Spring Street, Wells from Seventh to Sixth Street and Spring from Seventh to the railroad. Planned improvements include new storm sewer, roadway reconstruction including concrete curb and gutter and sidewalk, water main replacement, cured in place pipe rehabilitation of existing combined sewers, and replacement of water and sanitary lateral service lines. Streetscape beautification elements will be implemented for this portion of West Street including stamped concrete with adjacent ADA compliant sidewalks, decorative lighting, reestablished treelawns with landscaping, and existing aerial utilities will be relocated underground to enhance the corridor for aesthetics and safety. West Street Phase IIIB will bid in early 2023 for completion in the 2023 season. The estimated City investment is \$5.3 million.

Third Street Sewer Improvements – Cedar Street to Hill Street

One of the proposed renegotiation alternative projects to the original LTCP Consent Decree includes a conveyance element utilizing Third Street from Pine Street to Spring Street. Project phasing is shown on Exhibit E. This concept includes the installation of a 60” diameter trunk combined storage and conveyance sewer intercepting CSO 012 and 012A along Cedar Street and conveying to the Spring Street interceptor. Phase I, which includes Third Street from Hill Street to east of Main Street and Spring Street from First Street to Third Street, began construction in 2022.

Improvements will include the 60” trunk combined storage and conveyance sewer in Third Street, a new 48” storm sewer to serve Spring Street and Third Street, a new water main to replace the existing water main which is over 100 years old, water service and sanitary lateral replacements, CIPP lining of existing sanitary sewers, concrete curb and gutter, new full depth pavement, ADA compliant curb ramps, decorative stamped concrete, decorative street lighting, and street trees. Material supplies, conflicts with other projects, and extensive utility conflict have delayed the overall completion of the project. Final completion is anticipated to be in summer 2023 with an estimated City investment of \$6.3 million. Third Street Phase II is the extension of the 60” trunk combined storage and conveyance from Main Street to Race Street and includes all the elements of Phase I, but with the boring method of construction in lieu of open cut for installation of the 60” sewer in order to keep the Church Street corridor open to traffic and available for public safety. Due to long lead times for pipe boring materials, Phase II is scheduled to bid in spring 2023 with construction anticipated in 2023 and 2024 at an estimated cost of \$4.5 million.

Third Street Phase III is the extension of the 60” trunk combined storage and conveyance from Race Street to Pine Street where it will be connected to CSO 012 and 012A for diversion. The project will extend the new storm sewer to Cedar Street and will include all the same elements of Phase I.



Third Street Sewer Improvements – Spring Street



Third Street Sewer Improvements

The bid and construction are anticipated in 2024 and 2025 with an estimated cost of \$4.7 million.

LTCP – CSO 023A and 024

CSO 023A and 024 discharge to Eller Ditch through the Lincolnway East storm sewer system and are identified in the original LTCP Consent Decree as to specifically investigate to determine the appropriate method to mitigate overflows. After many years without access, it was finally achieved in 2021 and investigation showed the existing combined sewers in the CSO 023A and 024 area are concrete pipe and are exhibiting signs of hydrogen sulfide corrosion, including exposed aggregate throughout, localized cracking, joint ground water infiltration, and areas of root intrusion. It was determined that both CSOs would be candidates for the typical sewer separation projects and design to address CSO 023A was initiated in fall 2021. Design is nearly complete with bidding and construction planned for 2023. A project to address CSO 024 will occur in subsequent years as funding becomes available.

The CSO 023A project, starting at Lincolnway East, will include the construction of improvements along Manor Drive and Manchester Drive to the dead end. The CSO 024 project will include the construction of improvements along N. Oakley Avenue. These project phases are shown on Exhibit F. Improvements will consist of new storm sewers; roadway reconstruction including new curb, gutter, sidewalk, and drive approaches; cured in place pipe (CIPP) rehabilitation of existing combined sewers; and replacement of water services and sanitary lateral services. The CIPP rehabilitation of the existing concrete pipes and manhole coating will minimize infiltration and inflow to the system, deter root intrusion, and restore the design life of the converted sanitary sewer system as well as provide corrosion protection, reducing future operating and maintenance costs.

NMC #3: Review/Modification of Pretreatment Program

The purpose of the Mishawaka Industrial Pretreatment Program is to prevent pollutants from being introduced into the sewer system that may be discharged through a CSO during wet weather or may interfere with plant operations and to prevent pollutants that cannot be treated from passing through the plant and into the environment. All permitted industries are required to monitor and reduce the amount of pollutants being discharged into the city sewer system before entering the wastewater plant.

The pretreatment program is managed by the laboratory manager. Pretreatment duties consist of, but are not limited to the following:

- Permitting and Classification
- Self-monitoring and IU Submission

- Pretreatment Monitoring
- Inspection and Analysis
- Compliance and Enforcement

The City currently has eleven (11) permitted Significant Industrial Users and several non-permitted industries that are routinely monitored and inspected.

NMC #4: Maximization of Flow to the WWTP

Flow maximization through the wastewater treatment plant is an important element of Mishawaka's CSO LTCP. Hydraulically, the WWTP is designed to pass approximately 42 MGD through the treatment facility. The WWTP expansion, completed in late 2008, provided an average design capacity of 20 MGD and 42 MGD peak sustained flow. The capacity of the upgraded facility is currently being utilized to the maximum extent possible to treat peak wet weather flows and minimize combined sewer overflows. Peak flows of up to 60 MGD have been treated while meeting all NPDES permit effluent limits.

In 2023 the highest peak flow rate treated was 60.7 MGD on September 6th. The maximum total flow treated on a single day was 17.24 million gallons on February 27th.

In 2023 the average daily flow was 9.15 million gallons.

NMC #5: Prohibition of Dry Weather Overflows

Dry weather overflows are self-reported to IDEM and kept on file at the City. CSOs structures are inspected weekly for evidence of dry weather overflows, debris, or anything out of the ordinary. CSOs that show evidence of unusual flow are inspected more frequently.

To provide a higher degree of preventive maintenance, the Sewer Maintenance Department is equipped with two combination jetting/vacuuming trucks and two video inspection trucks that routinely operate 5 days per week.

In 2023 there were no CSO dry weather overflows.

NMC #6: Control of Solids and Floatables

The following activities comprise the NMC #6 activities in Mishawaka:

- Street Cleaning – The City operates a street cleaning program, with cleaning conducted approximately 9 months out of the year. A complete cycle is made throughout the city every 9 to 11 days.
- New Sign Campaign to Raise Awareness – In conjunction with the Michiana Stormwater Partnership (MSP), signs have been installed near all major surface water bodies in the City. The signs are intended to alert residents to the abundant surface water bodies in the

area, and to serve as a reminder to keep these vulnerable resources clean and free of pollutants.

- Leaf Removal Program – The City limits the amount of litter and debris that enters the collection system by operating a leaf and yard waste collection program with weekly pickup through each fall and spring.
- Household Hazardous Waste Collection Program – The Household Hazardous Waste facility located at 1105 East Fifth St. collects hazardous waste from St. Joseph County residents during regular business hours, 8:30 to 3:30 Tuesday through Saturday.
- Recycling Program – The City operates a curbside pick-up recycling program to collect newspapers, glass, plastic, aluminum, metal cans, cardboard, and mixed paper. Recyclables are picked up weekly.
- Catch Basin Signs – To prevent oil and other contaminants from reaching the river, storm drain inlets that are cast with the words “DUMP NO WASTE, DRAINS TO RIVER” are utilized by the City.
- Erosion Control – The City has adopted standards concerning erosion control, post-construction stormwater pollution prevention and other provisions related to the regulation of earthmoving, excavation, and stormwater discharge.

NMC #7 – Pollution Prevention – Mishawaka is dedicated to a pollution prevention program to reduce contaminants to the St. Joseph River. The programs described in NMC #6 are pollution prevention programs. A public education program has been implemented that utilizes the City’s website and includes a public education video, and information on CSOs.

NMC #8 – Public Notification – In accordance with Federal Law (40 CFR 122.38 (c)), Mishawaka operates a CSO notification program. The program provides an initial notification of a CSO event within four (4) hours of becoming aware of an overflow, and a supplemental notice within seven (7) days of the event that provides an estimated CSO volume and estimated start and stop times. Interested persons may get notifications by following Mishawaka CSO Alerts on Twitter. Go to <https://twitter.com/CSOAlerts>. Persons may also search Twitter for “Mishawaka CSO Alerts”.

NMC #9 – Monitoring – The purpose of Mishawaka’s monitoring program is to characterize CSO impacts and record rainfall data to estimate CSO frequency, volumes and durations to complete the CSO Monthly Report of Operations (MRO). The river is sampled on a weekly basis for E. coli at five locations. CSO structures are inspected weekly to ensure that there are no instances of dry weather overflows or other impending issues. Dry weather overflows are a very rare occurrence in Mishawaka.

Implementation Status of LTCP

The current status of the Implementation of the LTCP is summarized in Table 8.1



LEGEND

- CSO
- △ WWTP (001)
- CSO IMPACTED PUBLIC ACCESS
- 1. LINCOLN PARK BOAT RAMP
- 2. MERRIFIELD PARK BOAT RAMP
- 3. MONKEY ISLAND BOAT RAMP
- 4. ZAPPIA FISHING PARK

CSO LOCATION MAP

SCALE: 1" = 2000'



CITY OF MISHAWAKA
MARCH 2019



CITY OF MISHAWAKA
 Combined Sewer Overflow Annual Report
 40 CFR Parts 122.38(b)

2023

TABLE 2.1

DATE	Total Daily Precip. (Inches)	CSO 002		CSO 003		CSO 004		CSO 006		CSO 008		CSO 009		CSO 011		CSO 012	
		Duration Time (Hours)	Discharge Volume (MG)														
01/03/24	0.7															2.99	0.010437
02/09/24	0.8															4.42	0.015407
02/22/24	1.3															5.58	0.110979
02/27/24	1.4															5.69	0.136974
03/04/24	0.8															4.42	0.015407
03/31/24	1.4															5.69	0.136974
04/05/24	0.5															0.14	0.000497
05/01/24	0.7															2.99	0.010437
06/01/24	1.3															5.58	0.110979
06/03/24	0.5															0.14	0.000497
06/11/24	0.5															0.14	0.000497
06/13/24	0.7															2.99	0.010437
06/25/24	0.5															0.14	0.000497
06/26/24	0.5															0.14	0.000497
07/01/24	1.2															5.42	0.087384
07/02/24	1.0															4.92	0.051396
07/05/24	2.0															6.21	0.279711
07/06/24	0.9															4.67	0.033401
07/08/24	0.5															0.14	0.000497
07/12/24	0.7															2.99	0.010437
07/15/24	0.9															4.67	0.033401
07/20/24	1.8															6.04	0.232533
07/23/24	1.0															4.92	0.051396
07/26/24	1.1															5.17	0.069390
07/28/24	1.3															5.58	0.110979
07/29/24	3.1			1.18	0.054240							12.21	0.091582			7.06	0.567307
08/05/24	0.9															4.67	0.033401
08/06/24	1.0															4.92	0.051396
08/17/24	0.9															4.67	0.033401
09/06/24	1.6															5.88	0.185355
09/11/24	0.8															4.42	0.015407
09/12/24	0.9															4.67	0.033401
09/26/24	0.9															4.67	0.033401
10/05/24	2.1			0.08	0.000062											6.27	0.304167
10/13/24	0.5															0.14	0.000497
10/14/24	1.6															5.88	0.185355
10/19/24	0.5															0.14	0.000497
10/20/24	0.8															4.42	0.015407
10/25/24	0.5															0.14	0.000497
10/29/24	0.5															0.14	0.000497
12/01/24	0.6															1.57	0.005467
12/22/24	0.5															0.14	0.000497
12/28/24	0.8															4.42	0.015407
Totals:	42.5	0.00	0.000000	1.26	0.054302	0.00	0.000000	0.00	0.000000	0.00	0.000000	12.21	0.091582	0.00	0.000000	156.01	3.002392



CITY OF MISHAWAKA
 Combined Sewer Overflow Annual Report
 40 CFR Parts 122.38(b)

2023

DATE	CSO 013		CSO 014		CSO 015		CSO 016		CSO 018		CSO 019		CSO 020		CSO 021	
	Duration Time (Hours)	Discharge Volume (MG)														
01/03/24																
02/09/24																
02/22/24									0.19	0.000272						
02/27/24									0.45	0.000661						
03/04/24																
03/31/24									0.45	0.000661						
04/05/24																
05/01/24																
06/01/24									0.19	0.000272						
06/03/24																
06/11/24																
06/13/24																
06/25/24																
06/26/24																
07/01/24																
07/02/24																
07/05/24									1.81	0.060004			4.13	0.000106		
07/06/24																
07/08/24																
07/12/24																
07/15/24																
07/20/24									1.36	0.038495			2.63	0.000067		
07/23/24																
07/26/24																
07/28/24									0.19	0.000272						
07/29/24			0.76	0.218804	2.94	0.175483			2.55	0.219487			6.31	0.024712		
08/05/24																
08/06/24																
08/17/24																
09/06/24									0.92	0.016987			1.13	0.000029		
09/11/24																
09/12/24																
09/26/24																
10/05/24			0.04	0.002203	0.29	0.008844			1.96	0.073096			4.63	0.000825		
10/13/24																
10/14/24									0.92	0.016987			1.13	0.000029		
10/19/24																
10/20/24																
10/25/24																
10/29/24																
12/01/24																
12/22/24																
12/28/24																
	0.00	0.000000	0.80	0.221007	3.23	0.184327	0.00	0.000000	10.97	0.427195	0.00	0.000000	19.94	0.025868	0.00	0.000000

City of Mishawaka, Indiana
 Consent Decree Reporting Requirements (Section VII)
 Case No. 3:14-cv-00281-JD-CAN
 Effective Date: May 23, 2014
 Semi-Annual Report #20
 31-Mar-24

Project	No.	Start Date	End Date	Description	Note	Status	Work this Period (October 1, 2023 - March 31, 2024)	Work Projected Next Period (April 1, 2024 -September 30, 2024)
Milburn Area	1	2007	2026	Sewer Separation and Middleboro LS Improvements		Divisions A – G Completed Middleboro LS Upgrade Complete		
Wilson Boulevard Area	2	Dec. 2011	Dec. 2020	Parallel interceptor to redirect Flows from CSO 004, 005, 006, 007 and 008 to RC 4.		Phase I Completed Phase II - Completed		
Central Park Area	3	Started 2008	Dec. 2013	Main St. Underpass Sewer Improvements		Completed		
	4	Dec. 2021	Dec. 2029	Daisy Road Lift Station	*	Property Acquired from AEP June 21, 2011		
				Forcemain	*	95% of Forcemain Installed		
				RC 5		River Crossing 5 Installed		
	4	Dec. 2021	Dec. 2029	Conveyance from RC 5 to Merrifield Park	*	Preliminary Alignment (Mishawaka Ave to RC5) developed. Design and construction of ~600 feet of FM completed (Linden to Mishawaka Ave).		
	5	Started 2008	Dec. 2014	Front Street Sewer		Completed		
	6	Started 2008	Dec. 2031	CSO 016 Improvements	*			
CSO 019 Sewer Improvements					Completed			
CSO 011 Sewer Improvements					Completed			
			RC 2 Improvements		Completed			
East Area	7	Dec. 2016	Dec. 2028	Linden Area Sewer Separation	*	2014 Model Recalibration Completed, Sewer Improvements Study Completed, Design & Construction of Div. A, Phase I & II, Div. B, Div. C, Div. N&P, Div. MIA and MIB completed.	Construction of Division M Phase IB Constructed.	
	8	Dec. 2017	Dec. 2028	Storage and Conveyance – Capital Ave to Merrifield Avenue	*	2014 Model Recalibration Completed Preliminary alignment developed. 60% Design Completed for 1 block, incorporated in Item 10 Project.		
				Sewer Improvements East of Capital Ave.	*	2014 Model Recalibration Completed		
9	Started 2011	Dec. 2031	Mariellen Lift Station (US 331 Underpass) 4.8 MGD		Phase I - LS w/ 2 Pumps and 3 Siphons Completed and in Operation 4.8 MGD Capacity			
River Center / CSO 009 Area	10	Dec. 2015	Dec. 2023	Storage and Conveyance Merrifield Park to 4th Street	*	Survey 80% Complete Geotechnical Investigation Completed. Preliminary Engineering Completed. 2014 Model Recalibration Completed. 60% Design Completed (Merrifield Ave.). Construction of Crawford Park Storage/ Conveyance Completed.		
	11	Dec. 2014	Dec. 2022	Storage and Conveyance Merrifield to Main Street	*	90% GBR Completed. Phase I & II Geotech. Investigation Completed. Preliminary Engineering Report Completed. 2014 Model Recalibration Completed. ROW Acquisition, Demolition & Remediation Completed for Parcel 13. Environmental Screening Completed. 90% Design Completed.		
	12	Dec. 2012	Dec. 2020	Storage and Conveyance Main Street to WWTP	*	90% GBR Completed. Phase I & II Geotech. Investigation Completed. Preliminary Engineering Report Completed. 2014 Model Recalibration Completed. 90% Design Completed. ROW Acquisition & Demolition Completed for Parcels 2 and 3. Environmental Screening Completed		

 Shading indicates project completed.

* The City of Mishawaka submitted a request for modifications to their current Consent Decree on August 23, 2018. Modifications are being requested for projects identified with '*'. As part of the submittal, the City requested that the schedule for projects 10, 11 and 12 be placed in abeyance during agency review. The City responded to the EPA Letter dated November 14, 2019 on February 20, 2020, and to EPA/IDEM April 1, 2020 e-mail on July 9, 2020. The City provided updated information January 15, 2021 and February 11, 2021 in response to Agency request. City provided Long Term Control Plan Update No. 6 to Agencies on September 29, 2021.