



# 2021 Annual Report of “CSO Discharges” from the Wet-Weather Treatment Facility Outfall 002

General Information	
Date of Report:	January 4, 2022
Report Prepared By:	Michel Kuss, General Manager
NPDES Permit No.	IN0023752
Outfall:	002 – Wet-Weather Treatment Facility Discharge
Receiving Stream:	Trail Creek
Location of Outfall 002:	The discharge location is along Trail Creek at latitude 41° 43’ 10” N and longitude 86° 52’56” W. This location is approximately 1.9 miles upstream of Lake Michigan.
Contact Info: The name, phone number, and email address of the Michigan City Sanitary District’s contact person:	<u>Name:</u> Michael Kuss, <u>Title:</u> General Manager, Michigan City Sanitary District <u>Address:</u> 1100 E. 8 <sup>th</sup> Street, Michigan City, IN 46360 <u>Phone Number:</u> 219-874-7799 <u>Email address:</u> mkuss@mcsan.org

## **I. Summary**

The Michigan City Sanitary District is required to prepare an Annual Report and submit it to the IDEM and the USEPA no later than May 1 each year, describing the discharges from its Wet-Weather Treatment Facility during the previous year.

During 2021, the Michigan City Sanitary District had Zero “CSO Discharge” Events from its Wet-Weather Treatment Facility – Outfall 002.

## **II. Annual Report Required Information**

- (A) **Description of the location and receiving water for each CSO discharge point, and the treatment provided.**

There is only one “CSO Discharge” outfall. The “CSO” Outfall is a treated discharge from the Michigan City Sanitary District’s Wet-Weather Treatment Facility – Outfall 002. Outfall 002 is located at the treatment plant and wastewater discharged from this point receives screening and grit removal by the main Treatment Plant, and aeration, settling, and disinfection and de-chlorination (during the recreational season of April 1 through October 31) by the Wet-Weather Treatment Facility, before discharge. The discharges from Outfall 002, are monitored for: flow, CBOD5, TSS, Ammonia-Nitrogen, Phosphorous, pH, Dissolved Oxygen, and Total Residual Chlorine and *E. coli* (during the recreational season of April 1 through October 31). The NPDES Permit specifies limits for Total Residual Chlorine and *E. coli* in accordance with the State Water Quality Standards for these parameters. The Discharge enters Trail Creek approximately 1.9 river miles upstream of Lake Michigan.

- (B) The date, location, approximate duration, volume, and cause of each discharge from the District’s Wet-Weather Treatment Facility Outfall 002.**

There were zero “CSO Discharge” Events during 2021.

- (C) The date, location, duration, volume, and cause of each dry weather discharge from the District’s Wet-Weather Treatment Facility Outfall 002.**

There were zero Dry Weather “CSO Discharge” Events during 2021.

- (D) A summary of available monitoring data for CSO discharges from the past calendar year.**

The discharges from Outfall 002 are monitored for: flow, CBOD5, TSS, Ammonia-Nitrogen, Phosphorous, pH, Dissolved Oxygen. Total Residual Chlorine and *E. coli* are monitored is discharges occur during the recreational season of April 1 through October 31. The NPDES Permit specifies limits for Total Residual Chlorine and *E. coli* in accordance with the State Water Quality Standards for these parameters.

No monitoring was conducted because there were zero “CSO Discharge” Events during 2021.

- (E) A description of any public access areas potentially impacted by each CSO discharge.**

There were zero “CSO Discharge” Events during 2021.

- (F) **Representative precipitation data in total inches to the nearest 0.1 inch that resulted in a CSO discharge, if precipitation was the cause of the discharge.**

There were zero discharges from the District's Wet-Weather Treatment Facility Outfall 002 during 2021.

- (F) **Permittee contact information.**

See Annual Report Heading Section at the top of this Report.

- (G) **Summary of implementation of the nine minimum controls and the status of implementation of the District's Long-Term CSO Control Plan (or other plans to reduce or prevent CSO discharges).**

The Michigan City Sanitary District has completed the implementation of the nine minimum controls. This work was completed approximately fifteen (15) years ago. The following Table lists the Nine Minimum Controls and summarizes means by which the control was implemented.

Long-Term CSO Control Plan - NINE MINIMUM CONTROLS

Nine Minimum Technology-Based Controls	Pollution Control Categories		
	Source Control	Collection System Control	Treatment Plant Control
Proper operation and maintenance of collection system		X	
Maximum use of collection system for storage		X	
Review and modification of pretreatment programs	X		
Maximization of flow to and through POTW for treatment		X	X
Prohibition of CSO discharges during dry weather		X	X
Control of solid and floatable materials in CSO discharges		X	X
Pollution prevention programs	X		
Public notification to ensure that public receives adequate notification of CSO occurrences and CSO impacts	X*		
Monitoring to effectively characterize CSO impacts, and efficacy of CSO controls	X	X	X

\*Note: Achieved through implementation of the State and Federal CSO Notification rules.

The Michigan City Sanitary District submitted its Long-Term CSO Control Plan to the IDEM in April 2002 and the IDEM subsequently approved the District's LTCP in April of 2004. The Long-Term CSO Control Plan was fully implemented by 2006.

**(i) A description of key milestones remaining to complete implementation of the CSO Control Plan.**

The Long-Term CSO Control Plan is fully implemented and all Key Milestones have been achieved.

**(ii) A description of the average annual number of CSO discharges anticipated after implementation of the Long-Term CSO Control Plan (or other plan relevant to reduction of CSO overflows) is completed.**

The Long-Term CSO Control Plan is fully implemented. The Michigan City Sanitary District does not have combined sewer overflow points as defined by 40 CFR 403.3(r). This code defines a Combined Sewer Overflow (CSO) as a discharge from a combined sewer system (CSS) at a point **prior** to the Publicly Owned Treatment Works (POTW) Treatment Plant. While technically not a CSO outfall, the discharge from the Sanitary District's Wet-Weather Treatment Facility - Outfall 002 - is labeled as such in the Michigan City Sanitary District's NPDES Permit. Discharges from Outfall 002 rarely occur. There have only been two (2) discharge events since July 2011, and only one discharge event in the last eight (8) years. Discharges from Outfall 002 receive screening and grit removal by the main Treatment Plant, and aeration, settling, and during the recreational season of April 1 through October 31 disinfection and de-chlorination, by the Wet-Weather Treatment Facility, before discharge.

Wet-Weather "CSO" Treatment Facility Discharge events in last 12 years  
Outfall 002 Discharge Events

Date	Number of Events	Dates	Was Snow Melt a Contributing Factor
2010	0		
2011	1	7/2/11 to 7/3/11	NO
2012	0		
2013	1	6/26/13 to 6/28/13	NO
2014	0		
2015	0		
2016	0		
2017	0		
2018	1	2/20/18 to 2/26/18	Yes
2019	0		
2020	0		
2021	0		
2022 (to date)	0		
<b>Total</b>	<b>3</b>	<b>N/A</b>	<b>N/A</b>